ASCRS•ASOA
SYMPOSIUM & CONGRESS
2014 APRIL 25–29 BOSTON

ONLINE FINAL PROGRAM

The Only U.S. Meeting Dedicated to the Anterior Segment Specialist & The Leading Practice Management Program in Ophthalmology

Cornea Day
ASCRS Glaucoma Day
ASOA Workshops

Technicians & Nurses Program
April 26–28, 2014

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Welcome

THE BEST MEETING EXPERIENCE IN OPHTHALMOLOGY

2014 ASCRS•ASOA Symposium & Congress
April 25–29, Boston, MA

Additional Programming
Cornea Day
ASCRS Glaucoma Day
ASOA Workshops
Technicians & Nurses Program

Welcome to the 2014 ASCRS Symposium on Cataract, IOL and Refractive Surgery, the ASOA Congress on Ophthalmic Practice Management, and the Technicians and Nurses Program. We’re glad that you can join ASCRS•ASOA for what promises to be one of the most important conferences in the world of ophthalmology this year. The programming includes four days of thought-provoking speeches, insightful panels, compelling case discussions, engaging debates, and a diverse set of educational offerings.

Online Final Program and the ASCRS•ASOA 365 App

The Online Final Program is designed to help you navigate the education available at the conference. Educational programs are organized by sections: ASCRS, ASOA, and Technicians & Nurses. General information is provided about the facility, schedule, special events, the Ophthalmic Photographers’ Society Exhibit, and the affiliate programs. An Exhibit Hall Map, and the Exhibitor Directory with a product category listing is also available.

The printed On-Site Final Program will be distributed at the Boston Convention & Exhibition Center (BCEC) when you check-in at registration.

Experience the meeting through your smartphone. The new ASCRS•ASOA 365 app will help you plan your schedule, find exhibitors, and connect with attendees through the Twitter feed. Download the app for free at www.ascrs.org/gettheapp or search for ASCRS ASOA 365 in your smartphone’s App Store.

Use the Twitter hashtag #ASCRSASOA2014 to find real-time meeting updates, event coverage, and to comment on sessions. ASCRS and ASOA leadership will tweet ophthalmic pearls and will be available to answer your questions. View behind-the-scene photos and learn more about the inside workings of the meeting via Twitter and Facebook.

This conference gathers more than 13,000 ophthalmic professionals—physicians, administrators, residents, fellows, nurses, and technicians. Join the conversation. Take part in the sessions, reflect on the speeches and discussions, and don’t forget to save a little energy for the evening events.

Symposium and Congress Highlights

View pages 104–106 to find additional information on the ASCRS•ASOA special events, Cornea Day, ASCRS Glaucoma Day, ASOA Workshops, COE Exam, and affiliate programs.
PLAN YOUR SCHEDULE:
Browse by session, speaker, track, or day.

FIND EXHIBITORS:
Use the Exhibitor Directory, product category listing, and the Exhibit Hall Map.

CONNECT WITH ATTENDEES:
A built-in Twitter client aggregates tweets for the ASCRS Symposium and ASOA Congress.
Hashtag: #ASCRSASOA2014

RECEIVE EDUCATION HIGHLIGHTS:
Access popular articles, clinical news, and videos.
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Note: Program Schedule Subject to Change Without Notice

Use of the ASCRS•ASOA Meeting Name, Logo, and Content
The name and logo of the ASCRS•ASOA Symposium and Congress, ASCRS Glaucoma Day, and ASOA COE Review Day are proprietary marks. Use of the name and/or logo in any fashion, by any commercial entity, for any purpose is expressly prohibited. In addition, titles and content of papers, courses, and symposia are property of ASCRS•ASOA and may not be reproduced or used in marketing or instructional materials without the express written consent of ASCRS•ASOA.

American Society of Cataract and Refractive Surgery • American Society of Ophthalmic Administrators
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E-mail: ascrs@ascrs.org/asoa@asoa.org • Internet: www.ascrs.org/www.asoa.org
It’s Your Booth.

ASCRS•ASOA
Resource Center
Saturday, April 26–Tuesday, April 29
Boston Convention & Exhibition Center
Booth 663

Meet with colleagues, request services via touchscreens, and browse publications.

Journal of Cataract & Refractive Surgery • ASCOA•Bookstore
EyeWorld News Magazine • Administrative Eyecare Magazine
Ophthalmology Business Magazine

Staff members and IT support will be available to answer your questions.

ASCRS•ASOA Membership, Meetings, Education, and Government Relations • eyePAC • Cornea Society • EyeWorld
CLAO • ASCRS Foundation
Micro Invasive Glaucoma Surgery (MIGS) procedures are enabling clinicians to bypass both outflow obstruction and conventional thinking. That’s because MIGS procedures allow for early intervention into glaucoma progression and significantly reduce IOP. Indicated for use in conjunction with cataract surgery for the reduction of intraocular pressure in adult patients with mild to moderate open-angle glaucoma currently treated with hypotensive medication, the iStent® Trabecular Micro-Bypass is not only a new category, but an option whose time has come.

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Visit us at ASCRS, Booth #1402

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Caution: See product labeling for indications, contraindications, warnings, cautions, and directions for use.

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Charge over to booth #414 while you’re in Boston

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TearLab is proud to partner with the ASCRS Foundation to further the cause of eye health around the world.
Join us Sunday, April 27, 2014, at 6:30AM.

Go to www.tracs.net/ascrs5k to register
Introducing the new VERION™ Image Guided System*: Designed to help you consistently hit your cataract refractive target.

*The VERION™ Image Guided System is composed of the VERION™ Reference Unit and the VERION™ Digital Marker.

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- Profound bactericidal effect against gram-positive pathogens

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- Ointment provides long-lasting ocular surface contact time and greater bioavailability

- Anti-infective efficacy in a lubricating base

- Unsurpassed safety profile—low incidence of adverse events

- Convenient dosing—1 to 3 times daily

- Tier 1 pharmacy benefit status—on most insurance plans

Bacitracin Ophthalmic Ointment is indicated for the treatment of superficial ocular infections involving the conjunctiva and/or cornea caused by Bacitracin susceptible organisms.

**Important Safety Information**

The low incidence of allergenicity exhibited by Bacitracin means that adverse events are practically non-existent. If such reactions do occur, therapy should be discontinued.

Bacitracin Ophthalmic Ointment should not be used in deep-seated ocular infections or in those that are likely to become systemic.

This product should not be used in patients with a history of hypersensitivity to Bacitracin.

Please see adjacent page for full prescribing information.

DESCRIPTION: Each gram of ointment contains 500 units of Bacitracin in a low melting special base containing White Petrolatum and Mineral Oil.

CLINICAL PHARMACOLOGY: The antibiotic, Bacitracin, exerts a profound action against many gram-positive pathogens, including the common Streptococci and Staphylococci. It is also destructive for certain gram-negative organisms. It is ineffective against fungi.

INDICATIONS AND USAGE: For the treatment of superficial ocular infections involving the conjunctiva and/or cornea caused by Bacitracin susceptible organisms.

CONTRAINDICATIONS: This product should not be used in patients with a history of hypersensitivity to Bacitracin.

PRECAUTIONS: Bacitracin ophthalmic ointment should not be used in deep-seated ocular infections or in those that are likely to become systemic. The prolonged use of antibiotic containing preparations may result in overgrowth of nonsusceptible organisms particularly fungi. If new infections develop during treatment appropriate antibiotic or chemotherapy should be instituted.

ADVERSE REACTIONS: Bacitracin has such a low incidence of allergenicity that for all practical purposes side reactions are practically non-existent. However, if such reaction should occur, therapy should be discontinued.

To report SUSPECTED ADVERSE REACTIONS, contact Perrigo at 1-866-634-9120 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DOSAGE AND ADMINISTRATION: The ointment should be applied directly into the conjunctival sac 1 to 3 times daily. In blepharitis all scales and crusts should be carefully removed and the ointment then spread uniformly over the lid margins. Patients should be instructed to take appropriate measures to avoid gross contamination of the ointment when applying the ointment directly to the infected eye.

HOW SUPPLIED:
NDC 0574-4022-13 3-1 g sterile tamper evident tubes with ophthalmic tip.
NDC 0574-4022-35 3.5 g (1/8 oz.) sterile tamper evident tubes with ophthalmic tip.

Store at 20°-25°C (68°-77°F) [see USP Controlled Room Temperature].
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OCT is fast coming to the forefront of retina imaging, and the intuitive precision of Nidek’s new RS-3000 Advance is the latest wave in OCT. In addition to the features shown on the left, the RS-3000 Advance also offers wide-field 3D mapping, eye tracing, wide-view confocal SLO imaging in real time, enhanced follow-up examination with highly reproducible image capture, 53,000 A-scans/sec, and much more.

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  - Integrates Seamlessly with the DGH 8000 B-Scan
  - EMR/EHR Compatible

The Enhanced DGH 8000 Scanmate
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PORTABLE • INTUITIVE • AFFORDABLE

Enhance Your Practice’s Diagnostic Capabilities:
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- A-Mode Overlay & Caliper Measurement Tools
- Customizable, Professional Reports
- Integrates Seamlessly with the DGH 6000 A-Scan
- EMR / EHR Compatible

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Visit us at ASCRS Booth 371 to learn more about using TearLab to diagnose and manage Dry Eye Disease.

www.tearlab.com

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by Medicare under the Laboratory Fee Schedule - CPT 83861 QW*
Register Onsite!

Friday, April 25, 2014

Friday Night Lights at ASCRS: Implementing the Next Generation of Femtosecond Refractive Cataract Surgery Today

Citi Performing Arts Center℠ Wang Theater
270 Tremont Street
Transportation provided from the convention center.

6:00 PM – 6:45 PM Registration and Light Snacks
7:00 PM – 8:30 PM Educational Program
8:30 PM – 9:00 PM Dinner Reception

Program Chair
Eric D. Donnenfeld, MD

Faculty
Kerry K. Assil, MD
Mark H. Blecher, MD
Roger F. Steinert, MD
Shachar Tauber, MD
George O. Waring IV, MD

This event is non-CME.
Tom Sullivan lost his sight as an infant. Then he learned to turn this disadvantage into a positive. As a writer, actor, singer, and producer, he lives and works by “Sullivan's Rules.”

Tom uses music, humor, and anecdotes to illustrate how you can provide the best eye care for your patients.

He shares the importance of what you bring to the experience of a patient—not only in direct treatment but through your guidance in the emotional impact that vision loss has on a patient and family.

As an Apollo Award recipient from the American Optometry Association, Tom’s goal is to help “preserve vision and eliminate blindness from the face of the earth.”
Register Onsite!

Avedro
Presents
The Future of Cross-Linking

5:30 – 5:45 PM  Registration
5:45 – 6:45 PM  Program
6:45 – 7:30 PM  Reception and Gallery viewing
LenSx® Laser. There’s only one.

Delivering uncompromised precision and consistency, the LenSx® Laser has maintained its global leadership through continuous innovation in laser refractive cataract surgery. The LenSx® Laser leverages the power of The Cataract Refractive Suite by Alcon with tools designed to further streamline and improve the entire procedure. LenSxLasers.com

SMARTER
- Pre-population of patient and incision data
- Advanced pre-positioning of incisions and capsulotomy
- Platform design enables continued innovation and rapid enhancements

BETTER
- Customizable lens fragmentation for easy lens removal²
- SoftFit™ Patient Interface for easy docking, secure fixation and lower IOP³
- Compatible with the VERION™ Digital Marker for surgical planning and execution¹

FASTER³
- Laser procedure efficiency with reduced programming and suction time
- Designed for maximum procedural flexibility and ease of patient flow and transfer
- Simpler, easier patient docking

2. Using current LenSx® Laser systems
3. Alcon data on file.
The LenSx® Laser delivery system employs one sterile disposable LenSx® Laser Patient Interface consisting of an application lens and suction ring. The Patient Interface is intended for single use only. The disposables used in conjunction with Alcon® instruments constitute a complete surgical system. Use of disposables other than those manufactured by Alcon may affect system performance and create potential hazards. The physician should base patient selection criteria on professional experience, published literature, and educational courses. Adult patients should be scheduled to undergo cataract extraction.

PRECAUTIONS:
- Do not use cell phones or pagers of any kind in the same room as the LenSx® Laser.
- Discard used Patient Interfaces as medical waste.

AES/COMPLICATIONS:
- Capsulotomy, phacofragmentation, or cut or incision decentration
- Incomplete or interrupted capsulotomy, fragmentation, or corneal incision procedure
- Capsular tear
- Corneal abrasion or defect
- Pain
- Infection
- Bleeding
- Damage to intracorneal structures
- Anterior chamber fluid leakage, anterior chamber collapse
- Elevated pressure to the eye

ATTENTION: Refer to the LenSx® Laser Operator’s Manual for a complete listing of indications, warnings and precautions.
Haag-Streit Innovation Brought To Life.

Haag-Streit is more than the sum of its parts. Our mission is innovation, which leads to the development of important diagnostic devices and equipment. Used by doctors in nearly every country, they’re noted for accuracy, durability and engineering. It’s what your patients expect, and you demand. Watch for what’s coming out of Haag-Streit next. Science. Brilliance. Certainty.

Visit us at ASCRS booth #333.

The Superior Practice.
Register Onsite!

MicroPulse™ for Glaucoma & Retina. What’s the Hype?

11:30 AM – 12:00 PM  Registration and Lunch
12:00 – 1:00 PM  Program

Program:

MicroPulse Laser Trabeculoplasty as a Safe Alternative
Iqbal (Ike) Ahmed, MD, FRCSC
University of Toronto
Toronto, Canada

Why and How I’ve Incorporated MicroPulse into My Comprehensive Practice
David Gossage, DO, FAOCO, FAAO
Gossage Eye Institute
Hillsdale, MI, USA

DME: Role of Laser and MicroPulse Strategies in the Anti-VEGF Era
Elias Reichel, MD
New England Eye Center
Tufts Medical Center
Boston, MA, USA

Sponsored by

IRIDEX
Register today and attend:
Micro-Invasive Glaucoma Surgery (MIGS)
Bridging Basic Science with Clinical Application

When: Sunday, April 27, 2014
Registration and Reception: 4:45 - 5:15 PM
Program: 5:15 - 6:15 PM

Where: Boston Convention and Exhibition Center
Hall C - EyeWorld Theater

This is a non-CME program.

Program Co-Chairs:
- Thomas W. Samuelson, MD
- Kerry D. Solomon, MD

Faculty:
- John P. Berdahl, MD
- Robert J. Cionni, MD
- Eric D. Donnenfeld, MD
- Inder (Paul) Singh, MD

Registration available onsite!

Supported by an educational grant from Glaukos, Inc.
**ASOA Networking Lounge**

April 26–29, 2014  
Boston Convention & Exhibition Center  
Room 104 BC

Plan your day. Relax with colleagues. Strategize with COEs and consultants.

**Consultants-on-Call**  
ASCRS•ASOA Symposium & Congress registration includes complimentary private consultations with ophthalmic experts. Bring your most challenging questions.

Walk-ins are welcome or make an advance appointment: asoa@aso.org.

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<th>Sunday, April 27</th>
<th>Monday, April 28</th>
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<tr>
<td>8:00–9:00 AM</td>
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<td>Paul Larson - C</td>
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<td>9:00–10:00 AM</td>
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<td>Dan Bernick - L</td>
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<tr>
<td>10:00–11:00 AM</td>
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<td>Jane Shuman - PM</td>
<td>Anne Rose - C</td>
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<tr>
<td>11:00 AM–NOON</td>
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<td>Patricia Morris - PM</td>
<td>Mark Kropiewnicki - L</td>
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<td>NOON–1:00 PM</td>
<td></td>
<td>Kirk Mack - C</td>
<td>Mary Pat Johnson - C</td>
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<tr>
<td>1:00–2:00 PM</td>
<td>Andrew Maller - PM</td>
<td>Michael Brown - PM</td>
<td>Sue Corcoran - C</td>
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<td>2:00–3:00 PM</td>
<td>Donna McCune - C</td>
<td>Susan Stratton - PM</td>
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<td>3:00–4:00 PM</td>
<td>John Marasco - A</td>
<td>Patricia Kennedy - C</td>
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<td>4:00–5:00 PM</td>
<td>Jeff Grant - PM</td>
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*Preliminary schedule—February 2014.

**Expertise Legend**

A = Architecture  
C = Coding  
L = Legal  
PM = Practice Management

**Hours of Operation**

- **Saturday**  
  12:30–5:00 PM
- **Sunday–Monday**  
  7:30 AM–5:00 PM
- **Tuesday**  
  7:30 AM–12:00 PM

- Morning Start-ups
- Roundtables—Hourly
- Career Board
- Light Refreshments
- Business Card Drawings—Daily
Think You Know Everything About Femtosecond Cataract Lasers?

THINK AGAIN

Experienced LENSAR surgeons will have you rethinking what you know about femtosecond cataract surgery. Hear from the following experts about the advanced technology of the LENSAR Laser System and why LENSAR stands alone among all femtosecond cataract lasers.

Dr. Kerry Assil • Dr. Jonathan Solomon • Dr. Robert Weinstock

Dr. Mark Packer • Dr. Keith Liang

Westin Boston Waterfront Hotel

Grand Ballroom (concourse level)

Sunday, April 27th

6:00 am-6:30 am Registration and Breakfast

6:30 am-7:30 am Program

RSVP Now > www.EyeWorld.org/meetings/lensar
Save the Date
Friday, April 25 – Monday, April 28, 2014

Make the most of your time at the ASCRS•ASOA Symposium & Congress and attend our EyeWorld programs for additional CME and an opportunity to network with your colleagues.

These activities are approved for AMA PRA Category 1 Credits™

Registration is available onsite!
### Friday, April 25, 2014

**Developing the Latest Point of Care Ocular Surface Testing Protocol: Making Advanced Decisions From Advanced Diagnostics**

*Supported by unrestricted educational grants from TearLab, TearScience, Nicox, and Rapid Pathogen Screening Inc.*

Boston Convention & Exhibition Center –
EyeWorld Theater (Hall C)

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<td>6:30 – 7:30 AM</td>
<td>Program</td>
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**Moderator**
Eric D. Donnenfeld, MD

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### Sunday, April 27, 2014

**Today’s Innovations in Corneal Refractive Diagnostics, Treatments, and Techniques**

Boston Convention & Exhibition Center –
EyeWorld Theater (Hall C)

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<td>6:30 – 7:30 AM</td>
<td>Program</td>
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**Moderator**
John A. Vukich, MD

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### Saturday, April 26, 2014

**Adopting the Next Generation of Cataract Surgery: Evolving the Perspective on Outcomes, Practice Patterns and What It Means to be a Refractive Cataract Surgeon Today**

*Supported by an unrestricted educational grant from Abbott Medical Optics Inc.*

Boston Convention & Exhibition Center –
EyeWorld Theater (Hall C)

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<td>Registration (and lunch)</td>
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<td>12:00 – 1:00 PM</td>
<td>Program</td>
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**Moderator**
Eric D. Donnenfeld, MD

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### Monday, April 28, 2014

**The Neglected Refractive Interface: Impact of the Tear Film on Refractive Cataract Surgery Outcomes**

*Supported by an unrestricted educational grant from Allergan Inc.*

Boston Convention & Exhibition Center –
EyeWorld Theater (Hall C)

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**Reducing the Impact of Cataract Surgical Stress by Mitigating Inflammation and Reducing Ultrasound Energy**

*Supported by an unrestricted educational grant from Bausch & Lomb*

Westin Boston Waterfront – Grand Ballroom
(adjacent to the Boston Convention & Exhibition Center)

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<td>Program</td>
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The mission of the American Society of Cataract and Refractive Surgery is to advance the art and science of ophthalmic surgery and the knowledge and skills of ophthalmic surgeons. It does so by providing clinical and practice management education and by working with patients, government, and the medical community to promote quality eyecare.

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Founded in 1986, the American Society of Ophthalmic Administrators (ASOA) is the premier organization for the business side of the ophthalmic practice. Serving physicians, administrators, managers, and office staff, its mission is to advance the skills and professionalism of ophthalmic practice management by providing training programs, identifying new services and products, and seeking avenues for administrators’ personal and professional growth.

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- B: Board of Directors
- C: Consulting
- D: Consulting, Speaking
- E: Equity Ownership
- P: Paid Speaking
- R: Research Support

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- Alcon
- Abbott Medical Optics
- AqueSys
- Carl Zeiss Meditec
- Emmetrope Ophthalmics
- OptiMedica
- Transcend Medical
- OCuSOFT
- Amgen
- Bausch & Lomb
- Abbott Medical Optics
- Technolas Perfect Vision
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We’re Roaring Into Boston!

Visit COMBIGAN® at booth #414
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<th>Cornea Day 2014*</th>
<th>ICD-10 Workshop*</th>
<th>Pinto Practice Coaching*</th>
<th>Maximizing Leadership Skills*</th>
<th>Practice Management Boot Camp*</th>
<th>Beginner Excel*</th>
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<th>COE Overview (Part I)*</th>
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*Separate Registration Fee Required
### ASCRS•ASOA Events and Programs

#### Sunday, April 27

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<td>9:00</td>
<td>ASCRS Sym &amp; Papers</td>
</tr>
<tr>
<td>10:00</td>
<td>Physicians Courses</td>
</tr>
<tr>
<td>11:00</td>
<td>Innovators Session</td>
</tr>
<tr>
<td>12:00PM</td>
<td>Skills Transfer Sessions*</td>
</tr>
<tr>
<td>1:00</td>
<td>Films &amp; Posts On Demand</td>
</tr>
<tr>
<td>2:00</td>
<td>Administrators Networking Lounge</td>
</tr>
<tr>
<td>3:00</td>
<td>Practice Management Courses</td>
</tr>
<tr>
<td>4:00</td>
<td>Technicians &amp; Nurses Courses</td>
</tr>
<tr>
<td>5:00</td>
<td>Exhibit Hall</td>
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#### Tuesday, April 29

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00AM</td>
<td>Exhibitor Registration</td>
</tr>
<tr>
<td>7:00</td>
<td>Attendee Registration</td>
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<tr>
<td>8:00</td>
<td>ASCRS Sym &amp; Papers</td>
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<td>9:00</td>
<td>Physicians Courses</td>
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<td>Innovators Session</td>
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<td>1:00</td>
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<td>2:00</td>
<td>Dale Carnegie Leadership</td>
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<td>3:00</td>
<td>Practice Management Courses</td>
</tr>
<tr>
<td>4:00</td>
<td>COE Exam*</td>
</tr>
<tr>
<td>5:00</td>
<td>Exhibit Hall</td>
</tr>
</tbody>
</table>

*Separate Registration Fee Required
General Information

Attendee Registration
Attendee registration hours are shown on pages 95–96.

VIP Speaker Registration
Mandatory: All ASCRS Course, Paper, Symposia, Cornea Day, Glaucoma Day, and EyeWorld speakers must check-in and pick up their registration badges in the Speaker Ready Room. Speaker Ready Room hours are shown on page 100.

Attendee Fee
Attendee fee includes badge, On-Site Final Program, downloadable smart phone app, all sessions and regular courses, entrance to the Exhibit Hall, ASOA Celebration, and Film Festival Awards Ceremony. There is an additional fee for Cornea Day 2014, ASCRS Glaucoma Day 2014, Skills Transfer Sessions, and ASOA Workshops.

Registrants of ASCRS and ASOA programs are welcome to attend either or both Symposium and Congress programs. A joint registration category is available for those interested in attending both ASOA and Technicians & Nurses programs.

Exhibitor Registration
Exhibitor registration hours are shown on pages 95–96. This desk is for preregistered exhibitor representatives, new exhibitor representatives, Expo-Only registrants, and badge replacement.

All representatives must present a picture ID and business card to pick up a badge and/or a badge holder.

ADA/Special Accommodations
ASCRS•ASOA fully complies with the legal requirements of the Americans with Disabilities Act (ADA) and the rules and regulations thereof. ASCRS•ASOA also requires ADA compliance from its contracted vendors and facilities. Any participant in the annual symposium and congress who requires special accommodation or services should send an email to meetings@ascrs.org.

Shuttle Bus Service
Shuttle service will run every 15 minutes during morning and evening rush hours and every 30 minutes during midday hours. Shuttles run between the BCEC and some of the official ASCRS•ASOA hotels.

2014 Official Hotel Shuttle Routes

Route | Hotel | Pickup Location
--- | --- | ---
EAST SIDE of CONVENTION CENTER for ROUTES #1, 2, 3, 4
1-RED | Travel Time To Convention Center: 30 Minutes
The Midtown Hotel* | Curbside Lobby Entrance
Marriott Copley* | Curbside Lobby Entrance
Westin Copley* | Curbside Lobby Entrance
Fairmont Copley | At Westin, Curbside Lobby

2-YELLOW | Travel Time To Convention Center: 30 Minutes
Sheraton Boston* | Curbside Lobby Entrance
Hilton Back Bay | At Sheraton, Curbside
Mandarin Oriental* | Curbside Lobby Entrance
Lenox Hotel | At Mandarin Oriental
Taj Boston* | Across Boylston at Arlington
Four Seasons* | Curbside Lobby Entrance

3-BLUE | Travel Time To Convention Center: 25 Minutes
Liberty Hotel* | Curbside Lobby Entrance
Omni Parker Hotel* | Corner of Tremont & Beacon
Nine Zero | Corner of Tremont & Beacon
Ritz Carlton* | Corner of Tremont & Avery

WEST SIDE of CONVENTION CENTER for ROUTES #5, 6, 7, 8, 9,
5-ORANGE | Travel Time To Convention Center: 25 minutes
Loews Back Bay* | Curbside Lobby Entrance
Boston Park Plaza * | Curbside Columbus St. Entrance
Revere Hotel Boston* | Curbside Lobby Entrance

6-BROWN | Travel Time To Convention Center: 20 Minutes
W Hotel Boston * | Curbside Tremont St.
Courtyard Boston* | Curbside Lobby Entrance
Doubletree Boston* | Across Street From Lobby
Hyatt Regency Boston* | Curbside Lobby Entrance

7-TEAL | Travel Time To Convention Center: 30 minutes
Intercontinental Hotel* | Curbside Lobby Entrance
Marriott Longwharf* | Curbside State, Near Atlantic
Fairmont Battery Wharf* | On Commercial St. at Battery
Hilton Financial District* | Curbside Lobby Entrance
Langham Hotel* | Curbside Lobby Entrance

8-SALMON | Travel Time To Convention Center: 10 Minutes
Renaissance Waterfront* | Congress Street Entrance
Seaport Hotel* | Curbside Congress St.
Residence Inn Seaport* | Curbside Lobby, Thomson Place

9-SILVER | Travel Time To Convention Center: 20 minutes
Doubletree Guest Suites* | Lobby Entrance

*Denotes official shuttle pickup location. Also serves as pickup location for other hotels listed, as indicated.

Hotels in walking distance to BCEC
Westin Waterfront
General Information

Credits

Accreditation Statement
The American Society of Cataract and Refractive Surgery is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. ASCRS takes responsibility for the content, quality, and scientific integrity of the CME activity.

Objectives
Ophthalmologists attending the ASCRS Symposium on Cataract, IOL and Refractive Surgery and the ASOA Congress on Ophthalmic Practice Management will have the opportunity to:
- Summarize, assess, analyze, and evaluate the latest developments for the management of multiple ocular conditions within the various ophthalmic specialties
- Formulate current and advanced treatment strategies with ocular conditions, including anterior segment and refractive surgery, glaucoma and retinal conditions
- Identify complicating factors in anterior segment surgery and develop appropriate treatment plans to address the factors pre-, peri- and post-operatively
- Compare and contrast ophthalmic pharmaceuticals and devices
- Integrate prescribed medical and surgical treatment options into everyday practice
- Examine external legislative and internal practice issues affecting the field of ophthalmology

Designation Statement
The American Society of Cataract and Refractive Surgery designates this live educational activity for a maximum of 36 AMA PRA Category 1 Credits™. Physicians should claim only credit commensurate with the extent of their participation in the activity.

All CME activities approved for AMA PRA Category 1 Credit™ are valid for recognition by the European Accreditation Council for Continuing Medical Education (EACCME).

Physicians not licensed in the U.S. who participate in this CME activity are eligible for AMA PRA Category 1 Credit™.

Physicians can claim CME credit up to the maximum listed above for attending the Physicians Program (scientific films and posters on-demand, scientific papers, courses, symposia and general sessions), the Practice Management (ASOA) Program, or a combination thereof.

Attendees registered as exhibitors and guests may not claim educational credits for the program.

Continuing Education Credits
ASOA is applying for various continuing education credits for its 2014 program:
- American Academy of Professional Coders (AAPC) Application will be made for AAPC continuing education credit for ASOA coding courses.
- American Board of Opticianry (ABO) Application will be made for ABO continuing education credits for ASOA optical courses.
- California Bureau of Registered Nursing (CA BRN) Provider approved by the California Bureau of Registered Nursing, provider #15934.
- Certified Ophthalmic Executive (COE) Attendees: The ASOA Congress on Ophthalmic Practice Management qualifies for COE Category A credits. All attendees seeking COE credits MUST be registered for the ASOA program or the joint Technicians & Nurses-ASOA program.

Speakers: ASOA designates this activity for a maximum of 15 COE Category C credits.
Joint Commission on Allied Health Personnel in Ophthalmology, Ophthalmic Photographers Society, and American Orthoptic Council (JCAHPO/OPS/AOC)

Application will be made for JCAHPO/OPS/AOC continuing education credits for the Technicians & Nurses Program. All attendees seeking JCAHPO/OPS/AOC credits MUST be registered for the Technicians & Nurses program or the joint Technicians & Nurses–ASOA program.

Attendees registered as exhibitors and guests may not claim educational credits for the program.

Council on Optometric Practitioner Education (COPE®)

ASCRS is a COPE-Approved Administrator/Provider. COPE Accreditation has been granted for some parts of this program (IOMED Program Track).

Evaluations & Claiming Credits

We look forward to having you join us in Boston in April 2014. The online evaluation and credit claim will be available beginning on site in Boston.

The ASCRS and ASOA programs will be evaluated electronically. Attendees can visit any Technology Center and evaluate programs they have attended. When the evaluation is complete, a copy of the continuing education credits/hours for that day can be printed. If attendees do not complete the evaluations during the meeting, they can complete them at home. Just visit the ASCRS•ASOA web sites, evaluate the program, and print a copy of the credits/hours.

The Technicians & Nurses program will use paper evaluations, which will be given to the attendees upon entering the course room.

Attendee Verification

All attendees must have their badges printed on site to be verified as eligible for credit. Optometrists must have their badges scanned at the start and end of individual designated courses to be eligible for credit. The program evaluation and credit claim will be available online, with the exception of the Technicians & Nurses program.

Notice About Off-Label Use Presentations

The ASCRS Symposium on Cataract, IOL and Refractive Surgery may include presentations on drugs or devices, or uses of drugs or devices that may not have been approved by the Food and Drug Administration (FDA) or have been approved by the FDA for specific uses only. The FDA has stated that it is the responsibility of the physician to determine the FDA clearance status of each drug or device he or she wishes to use in clinical practice.

ASCRS is committed to the free exchange of medical education. Inclusion of any presentation in this program, including presentations of off-label uses, does not imply an endorsement by ASCRS of the uses, products or techniques presented.

ADA/Special Accommodations

ASCRS•ASOA fully complies with the legal requirements of the Americans with Disabilities Act (ADA) and the rules and regulations thereof. ASCRS•ASOA also requires ADA compliance from its contracted vendors and facilities. Any participant at the Symposium and Congress who requires special accommodation or services should contact ASCRS•ASOA Meetings Department at (703) 591-2220.

Meeting-Related Services

Online Abstracts

Physician paper and poster abstracts are available on the ASCRS web site (www.ascrs.org).

ASCRS•ASOA Resource Center

Booth 663
Exhibit Hall A, BCEC

Visit the Resource Center to review and purchase ASCRS•ASOA publications, learn about membership and member services such as ASCRS eyeCONNECT discussion lists and ASOA Eye-Mail and Career Center, and meet our staff. Find more information about the Journal of Cataract & Refractive Surgery, Administrative Eyecare, EyeWorld, Ophthalmology Business, eyePAC, and ASCRS Media.

Course Handouts

Course handouts are available online at www.ascrs.org and www.asoa.org. They will remain online for several months after the meeting.

Exhibit Hall

Halls AB
BCEC

For Exhibit Hall hours, see pages 95–96. Food and beverages can be purchased at concession stands within the Exhibit Halls along with the Bistro from Saturday, April 26, through Tuesday, April 29. There will be concessions in the convention center at all other times.
**Film and Poster Kiosks**  
*Exhibit Hall, Levels 1 & 2, BCEC*

Films and posters are available on demand. They are searchable by title, subject, and author/producer. Each film and poster is assigned a number to aid in retrieval. Films and posters will also be accessible from the ASCRS web site during and after the meeting.

**People’s Choice:** This year, attendees can vote for their favorite film at one of the kiosks or from a personal computer. The film with the most votes will be given the People’s Choice Award.

**Best Poster:** The posters will be judged for originality, quality of presentation, and scientific merit. Winning posters will be identified with an electronic ribbon.

**Housing Desk**  
*North Lobby, Level 1  
Exhibit Hall AB Foyer, Level 0, BCEC*

Assistance with housing needs, questions, and hotel information. We will also be accepting hotel reservations for the 2015 meeting in San Diego, California. Housing for 2015 can also be made at any technology center station or via our website at www.ascrs.org. In 2015, the ASOA program will be held in the convention center with ASCRS.

**Press Room/Media Lab**  
*Room 166, BCEC*

- **Thursday:** 2:00 PM–5:00 PM  
- **Friday–Monday:** 7:00 AM–5:00 PM  
- **Tuesday:** 7:00 AM–Noon

Registered members of the press may use the press room/media lab to work on stories, pick up press releases, and plan daily schedules.

**Speaker Ready Room**  
*Room 153ABC, BCEC*

- **Thursday:** 12:00 PM–8:00 PM  
- **Friday:** 6:00 AM–6:00 PM  
- **Saturday–Monday:** 6:30 AM–5:00 PM  
- **Tuesday:** 6:30 AM–2:00 PM

**Mandatory Registration and Check-in for All ASCRS Presenters:** All presenters of ASCRS courses, papers, and symposia must check in at the Speaker Ready Room 24 hours before their session. Check-in is required even if you have pre-submitted your presentation. Speaker Ready Room staff will have information on any room or time changes. Presentations must be submitted on a USB Memory Stick. All presentations must be created in PowerPoint. If you use Keynote, you must be prepared to export your file(s) to a “Clickable” QuickTime video (this is an option in Keynote) that will be embedded into a PowerPoint. The Speaker Ready Room does not have Internet access for downloading your presentation or videos from the web.

ASOA and T&N course instructors are not required to check in at the Speaker Ready Room, but may pick up their registration materials in the Speaker Ready Room or at general registration.

**Technology Centers**  
*Exhibit Hall, Levels 1 & 2, BCEC*

The Technology Stations are interactive, multimedia, and multiservice information stations. The following services will be offered at the locations listed above:

- **Internet Access**  
  Computers with Internet access will be provided at all Technology Stations.

- **Computerized Evaluations for ASCRS Symposium and ASOA Congress**  
  ASCRS and ASOA programs will be evaluated electronically. Attendees can visit any Technology Center and evaluate programs they have attended. When the evaluation is complete, a copy of the continuing education credits/hours for that day can be printed. If attendees do not complete the evaluations during the meeting, they can complete them at home. Just visit the ASCRS•ASOA web sites, evaluate the program, and print a copy of the credits/hours.

  **Important Reminder:** All attendees must have their badges printed on site to be verified as eligible for credit. The program evaluation and credit claims will be available at Technology Centers and online, with the exception of the Technicians & Nurses Program. Paper evaluations will be given upon entering the course room and will be used for the Technicians & Nurses Program, and JCAHPO credits are processed and claimed directly through JCAHPO.

- **Messages, Attendee Locator**  
  The message center will list only people who have registered for and arrived at the meeting. Users may leave/retrieve messages by text or voice. Text is entered via a computer keyboard; voice messages are recorded via a microphone. Text messages can be left in 6 languages. Monitors will list attendees who have messages.

- **Product Locator**  
  Attendees will be able to browse the exhibitor directory by entering a key word or selecting a product category. Printout will list booths where selected product(s) is displayed. Attendees can also search for specific exhibitors.

- **Session Locator**  
  Attendees will be able to browse the entire program and select session or course by speaker, topic, date, or time. Schedule, content, and speaker information can be printed.

**Note:** Film and poster kiosks will be located throughout the BCEC, and attendance verification stations will be located in Attendee Registration in the North Lobby.
Facility General Information

**Business Centers**
FedEx, Level 1, BCEC

**Coat & Bag Check**
Level 1, East Side, BCEC
The coat and bag check will be open at the following times:
- Thursday: 2:00 PM–8:00 PM
- Friday–Saturday: 6:00 AM–6:00 PM
- Sunday–Tuesday: 7:00 AM–5:00 PM

**Coffee/Lunch Concessions**
Inside Exhibit Hall, Level 1 West Side, and in the Bistro (inside Exhibit Hall).

**First Aid/Security**
If you need emergency assistance, first aid, or security personnel, dial extension 2222 on any convention center house or exhibit booth telephone.

**Lost and Found**
Dial 2222 on any convention center house phone to turn in or acquire any lost items with the BCEC Security Office.

**Boston Information**
- Boston Logan International Airport (BOS) (800) 23-LOGAN www.massport.com
- Amtrak (800) USA-RAIL www.amtrak.com
- MBTA Commuter Rail—The “T” (617) 722-3200 www.mbta.com
- Visitor Information (888) SEE-BOSTON www.bostonusa.com
- Convention Center Information www.massconvention.com
- Weather Information www.weather.com

**Weather**
The weather in Boston can be unpredictable. Wear layers that can be removed or added. An umbrella is a good idea. The average temperature in April is 41–56 degrees fahrenheit.

Tours
ASCRS•ASOA will not host tours in Boston. There are many opportunities to visit the city through your hotel. Please check with your hotel concierge for information on tours of the city.

2014 ASCRS•ASOA Symposium & Congress Official Hotels

<table>
<thead>
<tr>
<th>Hotel</th>
<th>Phone Number</th>
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<tbody>
<tr>
<td>Boston Loews Back Bay Hotel</td>
<td>(617) 266-7200</td>
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<tr>
<td>Boston Marriott Copley Place</td>
<td>(617) 236-5800</td>
</tr>
<tr>
<td>Boston Marriott Long Wharf</td>
<td>(617) 227-0800</td>
</tr>
<tr>
<td>Boston Park Plaza</td>
<td>(617) 426-2000</td>
</tr>
<tr>
<td>Courtyard Boston Tremont Hotel</td>
<td>(617) 426-1400</td>
</tr>
<tr>
<td>Doubletree By Hilton Downtown Boston</td>
<td>(617) 956-7900</td>
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<tr>
<td>Doubletree Suites By Hilton Boston</td>
<td>(617) 783-0090</td>
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<tr>
<td>Embassy Suites Boston At Logan Airport</td>
<td>(617) 567-5000</td>
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<tr>
<td>Fairmont Battery Wharf</td>
<td>(617) 994-9000</td>
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<tr>
<td>Fairmont Copley Plaza Boston</td>
<td>(617) 267-5300</td>
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<tr>
<td>Four Seasons Hotel Boston</td>
<td>(617) 338-4400</td>
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<tr>
<td>Hilton Boston Back Bay</td>
<td>(617) 236-1100</td>
</tr>
<tr>
<td>Hilton Boston Downtown/Faneuil Hall</td>
<td>(617) 556-0006</td>
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<tr>
<td>Hilton Boston Logan Airport</td>
<td>(617) 568-6700</td>
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<tr>
<td>Hyatt Regency Boston</td>
<td>(617) 912-1234</td>
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<tr>
<td>Intercontinental Boston</td>
<td>(617) 747-1000</td>
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<tr>
<td>Langham Hotel Boston</td>
<td>(617) 451-1900</td>
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<tr>
<td>Lenox Hotel</td>
<td>(617) 536-5300</td>
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<tr>
<td>Liberty Hotel</td>
<td>(617) 224-4000</td>
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<tr>
<td>Mandarin Oriental Boston</td>
<td>(617) 535-8888</td>
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<td>Nine Zero Hotel</td>
<td>(617) 772-5800</td>
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<td>Omni Parker House</td>
<td>(617) 227-8600</td>
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<td>Renaissance Boston Waterfront Hotel</td>
<td>(617) 338-4111</td>
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<tr>
<td>Residence Inn Boston Downtown/Seaport</td>
<td>(617) 478-0840</td>
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<td>Revere Hotel Boston Common</td>
<td>(617) 482-1800</td>
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<td>Ritz-Carlton Boston Common</td>
<td>(617) 574-7100</td>
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<td>Seaport Hotel</td>
<td>(617) 385-4000</td>
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<td>Sheraton Boston Hotel</td>
<td>(617) 236-2000</td>
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<tr>
<td>Taj Boston</td>
<td>(617) 536-5700</td>
</tr>
<tr>
<td>The Midtown Hotel</td>
<td>(617) 262-1000</td>
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<tr>
<td>W Boston</td>
<td>(617) 261-8700</td>
</tr>
<tr>
<td>Westin Boston Waterfront</td>
<td>(617) 532-4600</td>
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<tr>
<td>Westin Copley Place</td>
<td>(617) 262-9600</td>
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</tbody>
</table>
## General Information

### Lodging - Back Bay/Theatre District
1. Boston Marriott Copley Place
2. Courtyard by Marriott Boston Tremont
3. DoubleTree Suites by Hilton (3 Miles West)
4. DoubleTree by Hilton Boston - Downtown
5. Fairmont Copley Plaza Hotel
6. Four Seasons Hotel Boston
7. Hilton Boston Back Bay
8. Hyatt Regency Boston
9. Lenox
10. Liberty Hotel Boston
11. Loews Boston Back Bay Hotel
12. Mandarin Oriental, Boston
13. MidTown Hotel
14. NINE ZERO
15. Omni Parker House Hotel
16. Park Plaza Hotel & Towers
17. Revere Hotel Boston Common
18. Ritz Carlton, Boston Common
19. Sheraton Boston Hotel
20. Taj Boston
21. W Boston
22. Westin Copley Place Boston
Cornea Day 2014 is sponsored by the ASCRS Cornea Clinical Committee and the Cornea Society. This unique one-day symposium provides an excellent overview of anterior segment surgery, corneal issues in cataract and refractive surgery, infectious and inflammatory disease, as well as innovations in medical and surgical cornea. The program features lectures, debates, panel discussions, and surgical video reviews.

**ASCRS Glaucoma Day 2014**

**Ballroom East**

8:00 AM–4:30 PM

This 1-day symposium includes a spotlight session on Premium Glaucoma Surgery – Past, Present and Future, and provides a complete overview of the most current thinking in the management and treatment of glaucoma.

**COE Review, Part I**

**Room 108**

7:30 AM–5:00 PM

**ASOA Workshops**

See pages 278–279 for listing and room numbers.

**ASCRS•ASOA Special**

**Government Relations General Session**

5:00–6:00 PM

Senator Rand Paul, MD (R-KY)

**ASCRS eyePAC Reception**

(Private Event)

7:00–9:00 PM

ASCRS domestic members who have made a 2014 contribution to eyePAC are invited to attend the ASCRS eyePAC Reception at the Isabella Stuart Gardner Museum. Guests will enjoy refreshments in the museum’s iconic cloisters and have exclusive access to the entire museum. Transportation will be provided.

**APRIL 26–29**

**Film and Poster Kiosks**

**Exhibit Hall, Levels 1 & 2**

**BCEC**

First, second, third, and honorable mention winning photographs in 18 categories will be shown. The overall Best in Show will also be displayed.

**Ophthalmic Photographers’ Society Exhibit**

April 26–28 9:00 AM–5:00 PM

April 29 9:00 AM–3:00 PM

Musical Performance: Entrain

Entrain is a Martha’s Vineyard-based 6-piece band that combines rock, blues, calypso and ska, zydeco, jazz, and funk—often within the same song.

2014 Pinnacle Award

AE Editor’s Choice Award

Adventures in Darkness

Tom Sullivan

**Welcome**

Edward J. Holland, MD

ASCRS Program Chair

**Presidents’ Addresses**

Eric D. Donnenfeld, MD (outgoing)

Richard A. Lewis, MD (incoming)

**ASCRS 2014 Honored Guests**

Philip C. Hessburg, MD

Keiki R. Mehta, MS, DO, FIOS

**ASCRS Foundation Update**

Richard L. Lindstrom, MD, Chair, ASCRS Foundation
General Information

ASCRS Ophthalmology Hall of Fame Ceremony
Join ASCRS in honoring the 2014 inductees:
Vladimir P. Filatov, MD (deceased)
Theo Seiler, MD, PhD

ASCRS Binkhorst Lecture
Microinvasive Glaucoma Surgery: An Idea Whose Time Has Come
Ike K. Ahmed, MD

Integrated Ophthalmic-Managed Eyecare Program (see page 264–267)
1:00–6:00 PM

SUNDAY, APRIL 27

ASCRS Foundation Run for Sight 5K
Castle Island
7:00–9:00 AM
On-site Registration: 6:30 AM
Race: 7:00–8:30 AM

Join your fellow runners and walkers on beautiful Castle Island for the Second Annual Run for Sight 5K/1 Mile Walk to benefit the ASCRS Foundation. Transportation to-and-from the race will be provided. Visit http://www.tracs.net/ascrs5k/ for registration details.

Outpatient Ophthalmic Surgery Society (O OSS)
Perspective @ ASCRS Boston
Westin Boston Waterfront
12:00–3:00 PM
Complimentary luncheon included. For more information, visit www.ooss.org. The Westin Boston Waterfront Hotel is located at 425 Summer Street and is connected to the BCEC.

Combined Symposia of Cataract and Refractive Societies
Room 204AB
8:00–9:30 AM

The Sunday Summit
Grand Ballroom
10:00 AM–12:00 PM

ASCRS Lecture on Science and Medicine
Creation: The History and Future of Life, DNA, and Genes
Adam Rutherford, PhD

60 Minutes: Future Directions in Anterior Segment Surgery

COE Luncheon
Room 256
(Ticketed event; open to COEs only)
11:30 AM–1:00 PM

ASCRS•ASOA Joint Symposium
Room 204AB
The Integrated Eyecare Model: Should I or Shouldn’t I?
1:00–2:30 PM

ASOA Celebration
House of Blues Boston
15 Lansdowne Street
(S Sponsored by Care Credit
8:00 PM–12:00 AM

MONDAY, APRIL 28

2014 Legislative and Regulatory Update
Room 150
(28-101)
7:00–8:30 AM

ASCRS Innovators Session
Grand Ballroom
10:00–11:30 AM

Charles D. Kelman Innovator’s Lecture
Something Borrowed, Something New: Improved Accuracy for IOL Selection
Warren E. Hill, MD

32nd Annual Film Festival Reception and Awards
Grand Ballroom
4:30–6:30 PM
See video highlights from the winning films. Award winners and the Grand Prize of the Film Festival will be announced.

TUESDAY, APRIL 29

Film Theater
Grand Ballroom
8:00 AM–4:30 PM
See winning films from the 2014 Film Festival.

Dale Carnegie Leadership
Room 102AB
8:00 AM–12:00 PM

COE Exam
Room 108
8:30 AM–12:00 PM

Hot Off the Press
Grand Ballroom
3:00–4:30 PM
### SATURDAY, APRIL 26

1:00–2:30 PM  

**Course 26-306**  
**Room 257AB**  
Presbyopia: Options of Surgical Treatment  
*(Presented in Spanish)*  
Sponsored by the Latin American Society of Cataract and Refractive Surgeons–ALACCSA-R (LASCRS)

3:00–5:00 PM  

**Symposium S-5**  
**Room 210ABC**  
Management of Complicated Cases in Cataract and Refractive Surgery  
*(Presented in Spanish)*  
Sponsored by the Latin American Society of Cataract and Refractive Surgeons–ALACCSA-R (LASCRS)

### SU NDAY, APRIL 27

8:00–9:30 AM  

**Course 27-107**  
**Room 258A**  
Learning From Our Mistakes III: International Video Symposium of Complication Management in Cataract and Anterior Segment Surgery  
*(Presented in Spanish)*  
Sponsored by the Alliance of Cataract and Refractive Specialty Societies

**Symposium S-8**  
**Room 204AB**  
Combined Symposia of Cataract and Refractive Societies

- American Society of Cataract and Refractive Surgery (ASCRS)
- Asia-Pacific Association of Cataract and Refractive Surgeons (APACRS)
- European Society of Cataract and Refractive Surgeons (ESCRS)
- Latin American Society of Cataract and Refractive Surgeons (ALACCSA-R/LASCRS)

10:00–11:30 AM  

**Course 27-206**  
**Room 257AB**  
Surgical Management of Challenging Cases  
*(Presented in Spanish)*  
Sponsored by the Latin American Society of Cataract and Refractive Surgeons–ALACCSA-R (LASCRS)

### MONDAY, APRIL 28

8:00–9:30 AM  

**Course 28-111**  
**Room 206AB**  
Astigmatism Correction in 2014  
*(Presented in Spanish)*  
Sponsored by the Latin American Society of Cataract and Refractive Surgeons–ALACCSA-R (LASCRS)

10:00–11:30 AM  

**Course 28-203**  
**Room 253B**  
Update on Keratoconus and Corneal Ectasia  
*(Presented in Spanish)*  
Sponsored by the Latin American Society of Cataract and Refractive Surgeons–ALACCSA-R (LASCRS)

1:00–2:30 PM  

**Course 28-310**  
**Room 259AB**  
Lens Surgery After Corneal Refractive Surgery  
*(Presented in Spanish)*  
Sponsored by the Latin American Society of Cataract and Refractive Surgeons–ALACCSA-R (LASCRS)

3:00–4:30 PM  

**Course 28-408**  
**Room 258B**  
Phaco Prechop: Last Frontier Before Femtosecond Laser-Assisted Cataract Surgery  
*(Presented in Spanish)*
TUESDAY, APRIL 29

8:00–9:30 AM

Course 29-108  
Laser-Assisted Cataract Surgery, Where are We Today?  
(Presented in Spanish)  
Sponsored by the Latin American Society of Cataract and Refractive Surgeons–ALACCSA-R (LASCRS)

Room 258B

Course 29-207  
Actual Management in Pediatric Cataract  
(Presented in Spanish)  
Sponsored by the Latin American Society of Cataract and Refractive Surgeons–ALACCSA-R (LASCRS)

Room 258A

4-E Paper Session  
(Presented in Russian)

Room 155

10:00–11:30 AM

Course 29-208  
2014 Best of ASCRS (Presented in Russian)

Room 155

Course 29-210  
Best of ASCRS in Portuguese 2014: BRASCRS Perspective (Sponsored by the Brazilian Society of Cataract and Refractive Surgery)

1:00–2:30 PM

Symposium S-24  
Best of ASCRS (Presented in Spanish)  
Sponsored by the Latin American Society of Cataract and Refractive Surgeons–ALACCSA-R (LASCRS)

Room 204AB

Course 29-307  
2014 Review of New Surgical Technologies and Devices (Presented in Russian)

Room 155
Dr. Vladimir Filatov was a great contributor not only to the field of corneal transplantation and eye banking but also to plastic and reconstructive surgery as well as medical eye care delivery. He began studying keratooplasty in 1922 with his mentor, Arthur Elschnig of Prague, and over the next 23 years performed over 800 corneal grafts. From his vast experience, he described many of the major technical challenges and complications associated with corneal transplantation. In the course of his clinically innovative practice, he designed a number of instruments and innovations that greatly contributed to the progress of keratoplasty. He was notably the first to popularize the use of cadaveric preserved corneal tissue for transplantation, and in May of 1931 was the first to perform full-thickness corneal transplants using cadaveric tissue successfully.

Dr. Filatov was a prolific investigator beyond the domain of corneal transplantation and undertook significant research in other areas of ophthalmology. He wrote papers on pediatric trauma, was the first to use the Gonin method of retinal reattachment repair in the Soviet Union, did research in keratoconjunctivitis sicca, and developed a systematic theory of “biogenic stimulators” (tissue therapy) for inflammatory and degenerative conditions.

Dr. Filatov was the founding editor of Oftalmologicheskii Zhurnal in 1946, which he edited until his death in 1956. He established the Ukrainian Experimental Institute for Eye Diseases and Tissue Therapy, later renamed the Filatov Institute. The institution provided a large volume of clinical care, housed a major ophthalmic library, was the seat of significant ophthalmic research programs, and is credited as a forerunner of institutions such as the National Eye Institute.

Dr. Filatov was a great pioneer in refinement of the art and science of corneal transplantation, performing over 3500 corneal transplants before his death in 1956.
Theo Seiler, MD, PhD

“Dr. Theo Seiler is a true luminary in the field of ophthalmology. His pioneering work in the areas of corneal collagen crosslinking and excimer laser technology have dramatically advanced the fields of corneal and refractive surgery. He is certainly very deserving of this special honor.”

Terry Kim, MD, Professor of Ophthalmology, Duke University Eye Center

Professor Theo Seiler invented and pioneered the corneal collagen crosslinking procedure. His procedure has shown to strengthen the eye’s clear surface through the application of riboflavin, a form of vitamin-B2, followed by treatment with ultraviolet light. He is also a world pioneer in laser surgery and was the first to perform the photorefractive keratectomy procedure in 1987. He is credited with being the first physician to treat a human eye using an excimer laser.

Dr. Seiler teaches general ophthalmology and is a specialist in corneal and refractive therapy, physiologic optics, lasers in ophthalmology, and anterior segment surgery. Born in Ravensburg, southern Germany in 1949, he studied medicine, mathematics, and physics at the Universities of Heidelberg and Berlin. From 1976 to 1980, Dr. Seiler served as a professor of physics at the Peter-Silbermann College in Berlin. However in 1981, he returned to medicine and began his residency at the Department of Ophthalmology at the Free University of Berlin, where he rose to senior assistant and lecturer in 1985 and was named a professor of ophthalmology in 1990. In 1993, Dr. Seiler was named professor and chairman of the Department of Ophthalmology at Technische Universität of Dresden, which is a unique interdisciplinary center focusing on research and teaching. In 2000, Dr. Seiler assumed the position of professor and chairman of the Department of Ophthalmology at the University of Zurich in Switzerland. In October 2002, he founded the Institute for Refractive and Ophthalmic Surgery (IROC) in Zurich.

Dr. Seiler is a member of the German Ophthalmological Society (DOG), the American Academy of Ophthalmology (AAO), the Swiss Ophthalmological Society, the American Society of Refractive and Cataract Surgery (ASCRS), the European Cornea Society, the International Society of Refractive Surgery (ISRS) and served as board member for the DOG, ISRS and EuCornea.

Dr. Seiler’s awards include the Binkhorst Award (ASCRS) 1994; the Barraquer Award (AAO) 1995; the Graefe Award (DOG) 1996; and the Honor Award (AAO) 1997. He was also chosen to present the ASCRS Charles D. Kelman Innovator’s Lecture in 2008.

Members of the ASCRS Ophthalmology Hall of Fame

1999
José I. Barraquer, MD (1916–1998)
Ramon Castroviejo, MD (1904–1987)
J. Donald M. Gass, MD (1928–2005)
Charles D. Kelman, MD (1930–2004)
A. Edward Maumenee, MD (1913–1998)
Marshall M. Parks, MD (1918–2005)
Harold Ridley, FRS (1907–2001)
Charles L. Schepens, MD (1912–2006)
Lorenz E. Zimmerman, MD (1920–2013)

2000
Ernst Fuchs, MD (1851–1930)
Hans Goldmann, MD (1899–1991)
Albrecht von Graefe, MD (1828–1870)
Robert Machemer, MD
Frank B. Walsh, MD (1895–1978)

2001
Cornelius D. Binkhorst, MD (1912–1995)
David G. Cogan, MD (1908–1993)
Soyatoslav N. Fyodorov, MD (1927–2000)
Hermann von Helmholtz, MD (1821–1894)
Gerd Meyer-Schwickerath, MD (1920–1992)

2002
Bernard Becker, MD (1920–2013)
Jules Gonin, MD (1870–1935)
Edward W.D. Norton, MD (1922–1994)
Arnall Patz, MD (1920–2010)

2003
Danièle S. Aron-Rosa, MD
Joaquim Barraquer, MD
Paul A. Chandler, MD (1897–1987)
William F. Hoyt, MD
Norman S. Jaffe, MD
Jules Stein, MD (1896–1981)

2004
Claes H. Dohlman, MD, PhD
Jonas S. Friedenwald, MD (1897–1955)
Govindappa Venkataswamy, MD (1918–2006)

2005
Jules François, MD, PhD (1907–1984)
Gholam A. Peyman, MD
Robert M. Sinskey, MD

2006
Algermon B. Reese, MD (1896–1981)

2007
David J. Apple, MD (1941–2011)
Dame Isla Caroline Mann, FRCS (1892–1983)

2008
Allvar Gullstrand, MD (1862–1930)
Stephen L. Trokel, MD

2009
Jacques Daviel, MD (1696–1762)
Endre Á. Balacs, MD

2010
Judah Folkman, MD (1933–2008)
Alan C. Bird, MD

2011
Frederick H. Verhoeff, MD (1874–1968)
Alfred Sommer, MD

2012
Louis Braille (1809–1852)
Jack T. Holladay, MD

2013
Saiichi Mishima, MD (1927–2005)
Richard P. Kratz, MD, DSci

2014
Vladimir P. Filatov, MD (1875–1956)
Theo Seiler, MD, PhD
The Binkhorst Lecture

ASCRS established the Binkhorst Lecture and Medal to honor Cornelius D. Binkhorst for his pioneering work with intraocular lenses (IOLs). Each year since 1975, ASCRS has conferred the Binkhorst Medal on an individual whose career has made significant contributions to the science and practice of ophthalmology and established that person among the world’s most prominent ophthalmologists.

Dr. Ahmed’s Lecture

In his lecture Dr. Ahmed will explore the promise of microinvasive glaucoma surgery, this new, potentially disruptive technology and its increasing role in the treatment paradigm for glaucoma.

Biographical Information

Dr. Ahmed is currently assistant professor at the University of Toronto and clinical assistant professor at the University of Utah. He is the research director at the Kensington Eye Institute and director of the Glaucoma and Advanced Anterior Segment Surgery (GAASS) fellowship, both at the University of Toronto. Dr. Ahmed is also head of the ophthalmology division at Trillium Health Partners, Mississauga, Ontario.

Dr. Ahmed has earned a worldwide reputation for his groundbreaking work in the diagnosis and surgical treatment of highly complex eye diseases, including glaucoma and surgical complications. Recognized as one of the most experienced complex eye surgeons in the world, Dr. Ahmed has been a leader in novel treatments for glaucoma, cataract, and lens implant surgery. He has done pioneering work in innovative glaucoma surgery, developing and coining the term microinvasive glaucoma surgery (MIGS) as a new genre of surgical approaches and devices. In 2010, Dr. Ahmed was selected as one of Canada’s “Top 40 Under 40”—a prestigious national award recognizing significant achievements at a young age.

Dr. Ahmed has received numerous research grants to study glaucoma medications, glaucoma laser and surgical devices/techniques, angle closure glaucoma, anterior segment and retinal/optic nerve imaging in glaucoma, cataract surgical techniques and devices, and intraocular lens designs. He has designed microsurgical instrumentation, devices, implants, and techniques for the management of the dislocated cataract, iris reconstruction, and glaucoma.

Dr. Ahmed has published over 120 peer-reviewed articles and book chapters, given more than 600 scientific presentations, and delivered 28 visiting professor lectures around the world.

Binkhorst Medal Lecturers

<table>
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<tr>
<th>Year</th>
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<tr>
<td>2013</td>
<td>Nick Mamalis, MD</td>
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<td>2012</td>
<td>Randall J. Olson, MD</td>
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<td>2011</td>
<td>Abhay R. Vasavada, MS</td>
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<td>2010</td>
<td>I. Howard Fine, MD</td>
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<td>David F. Chang, MD</td>
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<td>2008</td>
<td>Edward J. Holland, MD</td>
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<td>2007</td>
<td>Steve C. Schallhorn, MD</td>
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<td>2006</td>
<td>Stephen S. Lane, MD</td>
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<td>2005</td>
<td>Graham D. Barrett, FRACO</td>
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<td>2004</td>
<td>Roger F. Steinert, MD</td>
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<td>2003</td>
<td>Richard L. Lindstrom, MD</td>
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<td>2001</td>
<td>Marguerite B. McDonald, MD</td>
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<td>2000</td>
<td>Robert H. Osher, MD</td>
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<td>1999</td>
<td>Walter J. Stark, MD</td>
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<td>1998</td>
<td>Samuel Masket, MD</td>
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<td>Kenneth J. Hoffer, MD</td>
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<td>1996</td>
<td>Kensaku Miyake, MD</td>
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<td>1995</td>
<td>Theo Seiler, MD, PhD</td>
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<td>1994</td>
<td>Howard V. Gimbel, MD</td>
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<td>1993</td>
<td>Douglas D. Koch, MD</td>
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<td>Jack T. Holladay, MD</td>
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<td>Stephen A. Obstbaum, MD</td>
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<td>Charles D. Kelman, MD</td>
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<td>David J. Apple, MD</td>
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<td>Endre A. Balazs, MD</td>
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<td>Henry M. Clayman, MD</td>
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<td>D. Peter Choyce, MD, FRCS</td>
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<td>Norman S. Jaffe, MD</td>
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<td>Jan G.F. Worst, MD</td>
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<td>1975</td>
<td>Cornelius D. Binkhorst, MD</td>
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Charles D. Kelman Innovator’s Lecture

Each year, the American Society of Cataract and Refractive Surgery (ASCRS) honors an individual whose innovative ideas have benefited ophthalmologists and their patients. The lecture and medal were established in 1985. Lecturers include some of the world’s most prominent pioneers in ophthalmic surgery. In 2002, ASCRS renamed the Innovator’s Lecture the Charles D. Kelman Innovator’s Lecture in recognition of Dr. Kelman’s life-long contributions and innovations.

Dr. Hill’s Lecture

Drawing on insights from a mathematical tradition outside traditional optics, Dr. Hill will describe a method of IOL power calculation quite different from what is currently in use. Over the past several decades, truly remarkable advances in IOL technology have been made, but the way in which the necessary power of the IOL is calculated prior to surgery has moved forward quite slowly. Modern ophthalmology has advanced in many areas by successfully borrowing from other fields. Dr. Hill will demonstrate how the accuracy of cataract surgery refractive outcomes may be moved to the next level by adapting technology from an unlikely source.

Biographical Information

Dr. Hill, a member at large of the ASCRS Governing Board, is medical director of East Valley Ophthalmology in Arizona, where he has worked for more than 27 years. After earning his medical degree from the University of Arizona, he completed his ophthalmology training at the University of Rochester in Rochester, New York. Since then, he has devoted the majority of his professional activities to performing challenging anterior segment surgery for other ophthalmologists and to the mathematics of intraocular lens power calculations.

Dr. Hill has delivered more than 550 papers and 12 named lectureships to ophthalmic societies both in the United States and internationally in 34 countries. In 2007, Dr. Hill was appointed the cataract and anterior segment subspecialty editor for the American Academy of Ophthalmology’s Ophthallic News and Education (O.N.E.) Network, a position he held until 2010. He has also received the American Academy of Ophthalmology’s Achievement and Secretariat Awards. He was named among Premier Surgeon’s list of top 250 surgeons.

Charles D. Kelman Innovator Lecturers

Richard J. Mackool Sr, MD, 2013
Douglas D. Koch, MD, 2012
Richard L. Lindstrom, MD, 2011
Henry F. Edelhauser, PhD, 2010
Robert H. Osher, MD, 2009
Theo Seiler, MD, PhD, 2008
Okihiro Nishi, MD, 2007
Kensaku Miyake, MD, 2006
Carmen A. Puliafito, MD, 2005
Roger F. Steinert, MD, 2004
Ioannis G. Pallikaris, MD, 2003
David J. Apple, MD, 2002
Gholam A. Peyman, MD, 2001
Stephen D. Klyce, PhD, 2000
David J. McIntyre, MD, 1999
Manus C. Kraff, MD, 1998
Luis A. Ruiz, MD, 1997
James P. Gills, MD, 1996
Leo D. Bores, MD, 1995
Howard Fine, MD, 1994
D. Peter Choyce, MS, FRCS, 1993
Joaquin Barraquer, MD, 1992
David Miller, MD, 1991
Robert Stegmann, MD, 1991
Herbert E. Kaufman, MD, 1990
C. William Simcoe, MD, 1989
John L. Pearce, ChM, DO, 1988
Danièle S. Aron-Rosa, MD, 1987
Steven P. Shearing, MD, 1986
Charles D. Kelman, MD, 1985
ASCRS Lecture on Science and Medicine

Creation: The History and Future of Life, DNA, and Genes

Adam Rutherford, PhD

ASCRS Lecture on Science and Medicine
10:00–11:00 AM, Sunday, April 27
Grand Ballroom, BCEC

ASCRS Lecture on Science and Medicine

This lecture was established by ASCRS as a forum for expanding and enriching our appreciation of fields of science and medicine outside the field of ophthalmology. It honors those whose curiosity and constant striving for innovation have led them to investigate aspects of medicine and science that broaden, enliven, and inspire.

Dr. Rutherford's Lecture

The lecture will explore ideas in synthetic biology, simulation of the origin of life, and how these issues pertain to our interpretation of modern history and the future. The talk is sure to raise questions about the future of medicine and how these changes will affect us as patients, doctors, and members of a global community.

Biographical Information

Dr. Rutherford, who holds a PhD from University College London and whose background is in the genetics of the eye development and disease, has earned a reputation as an innovative thinker taking a new look at ideas about creation, synthetic biology, and evolution. He has gained a wide audience in the United Kingdom and beyond with his irreverent television series, articles, and interviews. His first book, Creation, was released in the UK last spring and in the U.S. this summer and earned praise from the Financial Times, the Guardian, the Telegraph, the Observer, the Wall Street Journal, the Los Angeles Times and Smithsonian Magazine, which raved: “It’s rather elegant, moving through the mechanisms of molecular biology to explore the underlying questions of when and how life began. Rutherford is careful not to get too starry-eyed about any of the people or experiments he depicts . . . through Rutherford’s eminently sensible lens, it’s hard not to get excited.”

In January 2012, Rutherford made Horizon: Playing God, an important documentary marking the rise of synthetic biology, for the British Broadcasting Corporation (BBC). He has also made Men in White and Genome and the Cell for the BBC. The latter was shown in more than 40 countries and placed in the Daily Telegraph’s list of 10 Classic Science Programs. Dr. Rutherford has conducted several interviews for the BBC’s The Culture Show. He has made a number of documentaries for BBC Radio covering topics such as MMR and autism, epigenetics, human evolution, astronomy and art, science and cinema and scientific fraud. Until recently, Rutherford was an editor for the magazine Nature.
Philip C. Hessburg, MD

Dr. Philip Hessburg is one of the country’s most respected ophthalmologic experts. Dr. Hessburg graduated from St. John’s University, in Collegeville, Minnesota, and Marquette University School of Medicine. Following his internship, Dr. Hessburg served as a flight surgeon in the United States Air Force before completing a four-year residency in ophthalmology at Henry Ford Hospital in Detroit.

Dr. Hessburg’s career has served as a sterling example of leadership through service, as evidenced by his commitment to numerous professional organizations, including serving as an associate examiner for the American Board of Ophthalmology, president of the Michigan Ophthalmological Society, and two full terms on the Council of the American Academy of Ophthalmology. He has been or is currently a member of the Board of Directors of the Outpatient Ophthalmic Surgery Society, the Welsh Cataract Congress, and the American Intraocular Implant Society (AIOIS, now the American Society of Cataract and Refractive Surgery).

The long list of awards presented to Dr. Hessburg include the Secretariat Award of the American Academy of Ophthalmology’s Board of Trustees in 2004, its Senior Achievement Award in 2006, and the Statesmanship Award of the Joint Commission on Allied Health Personnel in Ophthalmology.

In 1985, Dr. Hessburg was the AIOIS representative defending its members before the “Big Cutter” hearings in the U.S. Senate Committee Hearings of Senator Pepper of Florida. Dr. Hessburg was founder and board chairman of Health Applications Network and of Mediventures Inc. and is past president of Medical Eye Services of Michigan. He has published more than 50 scientific papers and numerous book chapters, and he invented the Hessburg anterior chamber intraocular lens, the Hessburg/Barron corneal trephine, and the Hessburg subpalpebral lavage system.

Dr. Hessburg was founder and volunteer president of the Detroit Institute of Ophthalmology, a nonprofit corporation dedicated to ophthalmic education, research, and aid to the visually impaired. He is currently the medical director for the institute and for Henry Ford Health System’s division of Education and Research. Although he retired in December 2005 from active ophthalmic practice at Grosse Pointe Ophthalmology/Henry Ford Health System, he was asked to rejoin the senior staff of the Department of Ophthalmology in June 2012 at the time of the merger of the Detroit Institute of Ophthalmology and the Henry Ford Health System.

Keiki R. Mehta, MS, DO, FIOS

Dr. Keiki Mehta, a prolific teacher and clinician, is one of India’s top eye surgeons and a pioneer in cataract and refractive surgery in the region.

In addition to his clinical practice, Dr. Mehta conducts free eye camps nationwide; is chairman of the Low Vision Centre at Maharashtra; and runs a 25-bed, free eye hospital in a rural area of Karjat. Dr. Mehta is currently Medical Director and Chief of Surgery for the Mehta International Eye Institute and Colaba Eye Hospital, which he founded and which is now considered to be Asia’s most advanced ophthalmic institute. He also holds a professorship at the D. Y. Patil Medical College and Hospital in Mumbai and serves as chairman and organizing secretary of the EyeAdvance Congresses.

Over the course of his long and distinguished career, Dr. Mehta performed the first intraocular lens implantation and the first laser in situ Keratomileusis procedure in India and has earned a reputation as the “Father of Indian Phacoemulsification” for his efforts in that field. Dr. Mehta has also operated live on Video Cataracta, Europe’s largest live surgery conference, held in Milan, Italy.

Dr. Mehta’s numerous awards include the American Intra-ocular Implant Society’s prestigious Appreciation Award for creation of the first soft intraocular lens, and the National Eye Research Foundation’s Grand Honors Award for ophthalmology research, the only Indian to receive the award.
The 2014 Ophthalmic Photographers’ Society Exhibit allows images produced throughout the year to be shared with the ophthalmic community. The following are the first, second, third, and honorable mention winners. Please visit the exhibit to view the winning entries, as well as see the entry awarded “Best in Show.”

North Lobby, Level 1

The photographs were judged by
Jay A. Rostvold—Chief Judge
Dennis R. Cain, CRA
Lori S. Snyder, MD
James D. Strong, CRA

Best in Show  |  Capillary Canopy  
|----------------|
| James P. Gilman, CRA, FOPS  
| Moran Eye Center  
| Salt Lake City, UT, USA  
| Category: The Eye as Art  

Composite
First  |  Syphilitic Chorioretinitis  
|----------------|
| Noelle Pensec, CRA  
| Columbia University Medical Center  
| New York, NY, USA  

Second  |  Frosted Branch Angiitis  
|----------------|
| John Arumai Selvan Durairaj  
| Aravind Eye Hospital  
| Madurai, India  

Third  |  Valsalva Retinopathy  
|----------------|
| John Arumai Selvan Durairaj  
| Aravind Eye Hospital  
| Madurai, India  

Honorable Mention  |  Status Post Vitrectomy and Scleral Buckle for Giant Retinal Tear/Recurring Retinal Detachment  
|----------------|
| Jennifer Tourtellot  
| Tufts Medical Center  
| Boston, MA, USA  

Cross Categories
First  |  CRAO  
|----------------|
| Chris J. Barry, FOPS  
| Lions Eye Institute  
| Perth, WA, Australia  

Second  |  Best’s Vitelliform Dystrophy  
|----------------|
| James P. Gilman, CRA, FOPS  
| Moran Eye Center  
| Salt Lake City, UT, USA  

Third  |  Ischemic Maculopathy  
|----------------|
| Jackson Kwok  
| Singapore National Eye Centre  
| Singapore, Singapore  

Honorable Mention  |  Macular Dystrophy  
|----------------|
| Kasi Sandhanam  
| Singapore National Eye Centre  
| Singapore, Singapore  

Cone Rod Dystrophy  |  Mike Arango  
|----------------|
| National Eye Institute  
| Bethesda, MD, USA  

Iris Nevus  |  Tika M. Siburt  
|----------------|
| Wills Eye Hospital  
| Philadelphia, PA, USA  

Corneal Tattoo  |  David T. Miller, CRA  
|----------------|
| Wake Forest University Baptist Health  
| Winston–Salem, NC, USA  

External Photography
Second  |  Untreated Retinoblastoma  
|----------------|
| Tessa R. Tintle  
| Wills Eye Hospital  
| Philadelphia, PA, USA  

Third  |  Hypertrichosis  
|----------------|
| Gattu Naresh  
| L V Prasad Eye Institute  
| Hyderabad, India  

Honorable Mention  |  Engorged Ixodes Scapularis (Deer Tick)  
|----------------|
| Jennifer Tourtellot  
| Tufts Medical Center  
| Boston, MA, USA  

Fluorescein Angiography
First  |  CRVO  
|----------------|
| Chris J. Barry, FOPS  
| Lions Eye Institute  
| Perth, WA, Australia  

Second  |  Coats’ Disease  
|----------------|
| Kasi Sandhanam  
| Singapore National Eye Centre  
| Singapore, Singapore  

Third  |  Central Serous Chorioretinopathy  
|----------------|
| Michael Charles Bono, CRA, COT  
| National Eye Institute  
| Bethesda, MD, USA  

Honorable Mention  |  PDR With Extensive Capillary Nonperfusion  
|----------------|
| John Arumai Selvan Durairaj  
| Aravind Eye Hospital  
| Madurai, India  

Retinopathy of Prematurity  |  Alicia Zeitna, CRA  
|----------------|
| National Eye Institute  
| Bethesda, MD, USA  
### Ophthalmic Photographers' Society Exhibit

**Fundus Photography, Normal, 30–40°**

**Second**
- **Macular Degeneration**
  - David T. Miller, CRA
  - Wake Forest University Baptist Health Eye Center
  - Winston-Salem, NC, USA

**Third**
- **Macular Hole**
  - Jennifer Tourtellot
  - Tufts Medical Center
  - Boston, MA, USA

**Honorable Mention**
- **Dislocated Lens**
  - Jennifer Dubois Moran, BS
  - New England Eye Center
  - Boston, MA, USA

**Fundus Photography, Wide Angle, 45+°**

**First**
- **Central Retinal Artery Occlusion**
  - Noelle Pensec, CRA
  - Columbia University Medical Center
  - New York, NY, USA

**Second**
- **Choroidal Metastasis**
  - Diane Zellers
  - Geisinger Health System
  - Danville, PA, USA

**Third**
- **Polypoidal Choroidal Vasculopathy With Retina Detachment**
  - Jackson Kwok
  - Singapore National Eye Centre
  - Singapore, Singapore

**Honorable Mention**
- **Doyne Honeycomb**
  - Dina Y. Yang
  - Columbia University Medical Center
  - New York, NY, USA

**The Face of a Vitreous Hemorrhage**
- Kathleen Marie Warren
  - New England Eye Center
  - Boston, MA, USA

### Gross Specimen Photography

**First**
- **Lymphangiomia**
  - Gattu Naresh
  - L V Prasad Eye Institute
  - Hyderabad, India

**Honorable Mention**
- **Intraocular Metallic Foreign Body in Cut Section of Enucleated Eye**
  - Gattu Naresh
  - L V Prasad Eye Institute
  - Hyderabad, India

**Right Eye Posterior Pole With Floating Eyelid Sebaceous Gland Carcinoma: Status Post Grossing of Exenteration Specimen**
- Gattu Naresh
  - L V Prasad Eye Institute
  - Hyderabad, India

### Monochromatic Photography

**First**
- **Macular Pucker**
  - Kasi Sandhanam
  - Singapore National Eye Centre
  - Singapore, Singapore

**Second**
- **Optic Disc Pit Associated Outer Retinal Dehiscence**
  - Kasi Sandhanam
  - Singapore National Eye Centre
  - Singapore, Singapore

**Third**
- **Intraocular Lymphoma Autofluorescence**
  - Michael Charles Bono, CRA, COT
  - National Eye Institute
  - Bethesda, MD, USA

### Ocular Coherence Tomography

**First**
- **Blocked Filtration Tube**
  - Mohanram Lakshmanasamudram
  - Singapore National Eye Centre
  - Singapore, Singapore

**Second**
- **Optic Pit Related Foveoschisis**
  - Fedra Hajizadeh, MD
  - Noor Eye Hospital
  - Tehran, Iran

**Honorable Mention**
- **Choroidal Hemangioma Swept Source vs SD-OCT**
  - Chris J. Barry, FOPS
  - Lions Eye Institute
  - Perth, WA, Australia

**Vitreomacular Traction Preoperative and Postoperative Surgery**
- Kasi Sandhanam
  - Singapore National Eye Centre
  - Singapore, Singapore

**Boston Keratoprosthesis**
- Mohanram Lakshmanasamudram
  - Singapore National Eye Centre
  - Singapore, Singapore
**Slitlamp Photography**

**First**
- **Iris Cysts**
  - Tika M. Siburt
  - Wills Eye Hospital
  - Philadelphia, PA, USA

**Second**
- **Siedel’s Positive**
  - Kasi Sandhanam
  - Singapore National Eye Centre
  - Singapore, Singapore

**Third**
- **Anterior Capsular Phimosis With Posterior Capsulotomy**
  - Kasi Sandhanam
  - Singapore National Eye Centre
  - Singapore, Singapore

**Honorable Mention**
- **Iris Amelanotic Melanoma: Fifteen-Year Size Increase**
  - Chris J. Barry, FOPS
  - Lions Eye Institute
  - Perth, WA, Australia

**Special Effects**

**Honorable Mention**
- **Neovascularization in Iris**
  - John Leo
  - The Tun Hussein Onn National Eye Hospital
  - Petaling Jaya, Selangor Darul Ehsan, Malaysia

**Surgical Photography**

**Second**
- **Radioactive Plaque Treatment Choroidal Hemangioma**
  - Tika M. Siburt
  - Wills Eye Hospital
  - Philadelphia, PA, USA

**Honorable Mention**
- **Melphalan Injection for Retinoblastoma**
  - Tika M. Siburt
  - Wills Eye Hospital
  - Philadelphia, PA, USA

**The Eye as Art**

**First**
- **Capillary Canopy**
  - James P. Gilman, CRA, FOPS
  - Moran Eye Center
  - Salt Lake City, UT, USA

**Second**
- **Cyclone**
  - John Leo
  - The Tun Hussein Onn National Eye Hospital
  - Petaling Jaya, Selangor Darul Ehsan, Malaysia
SATURDAY, APRIL 26

Room 205ABC

Registration Required

Sponsored by
ASCRS Residents Task Force
ASCRS Young Physicians & Residents Clinical Committee
ASOA Physician Relations Committee
and the Cornea Society

Program Committee
Bonnie An Henderson, MD,* Co-chair
Edward J. Holland, MD,* Co-chair
Maria E. Aaron, MD
Kathryn Colby, MD, PhD*
Steven J. Gedde, MD
Preeya Gupta, MD*
Sondra Hoffman, COE, CPC
Jeremy Z. Kieval, MD*
D. Brian Kim, MD
W. Barry Lee, MD *
Thomas A. Oetting, MD
Sherman W. Reeves, MD, MPH*
Tara A. Uhler, MD

8:00 Welcome
Edward J. Holland, MD,*
Bonnie An Henderson, MD*

8:05 Government Decisions Are Not Fait Accompli—How the Society and Physicians Can Shape the Future: Advice for the Young Physician
Nancey McCann

8:15 Confronting the Fraudulent Ophthalmologist: Ethical and Practice Recommendations
John Banja, PhD

8:30 Coding and Billing 101
Kevin J. Corcoran, COE, CPC*

8:45 Effective Communication Skills: Tips for Public Speaking, Writing, and Publishing
Nick Mamalis, MD*

9:05 Demystifying the Path to the Podium
Jan E. Beiting

9:15 How to Choose a Fellowship
Sonia Yoo, MD*

9:25 How to Evaluate Employment Opportunities
Annette C. Sims, MD

9:40 Contract Negotiation
John B. Pinto*

10:05 Break

10:20 Networking and Referral Marketing
I. Howard Fine, MD

10:35 Why I Chose Academic Medicine
Maria E. Aaron, MD

10:45 Why I Chose Private Practice
Jeremy Z. Kieval, MD*

10:55 How to Avoid Being Sued: What You Can Do to Reduce the Risk of malpractice liability
William J. Dailey, JD

11:10 Personal Finances 101
Sherman W. Reeves, MD, MPH*

11:20 YPR Track Highlights
Sherman W. Reeves, MD, MPH*

11:25 Best Paper and Poster Awards

11:45 Lunch Roundtables with Faculty, ASCRS•ASOA and Cornea Society Committee Members
FUTURE MEETING DATES

2015 SAN DIEGO, CA
APRIL 17–21

2016 NEW ORLEANS, LA
MAY 6–10

www.ascrs.org
www.asoa.org

SAN DIEGO HOUSING OPENS FRIDAY, APRIL 25, 2014
RESERVE EARLY TO STAY AT YOUR PREFERRED HOTEL.

www.ascrs.org
www.asoa.org
Modern cataract surgery requires greater precision than ever. ZEISS provides best-in-class visualization solutions that help advance your clinical outcomes.

**Join us for a Special Event: Maximizing Your Toric IOL Practice**

**Saturday, April 26, 2014**
11:30AM – 12PM  Registration and Lunch
12:00 – 1:00 PM  Program

**Westin Boston Waterfront Hotel**
Grand Ballroom (concourse level)

**Register today:**
www.EyeWorld.org/meetings/Zeiss

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**Moderator:** Roger F. Steinert, MD  
Chair, Department of Ophthalmology  
Director, Gavin Herbert Eye Institute  
University of California, Irvine

**Speakers:**
- Mitchell A. Jackson, MD  
  Founder/Director  
  JacksonEye
- Jonathan D. Solomon, MD  
  Surgical/Refractive Director  
  Solomon Eye Associates
- Liem Trinh, MD  
  Ophthalmic Surgeon  
  Liem Trinh
### ASCRS Program at a Glance

**Friday, April 25**

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*Separate registration required*
SATURDAY, APRIL 26

ASCRS Resident and Fellow Program

8:00 AM–12:45 PM  Room 205ABC

Sponsored by the ASCRS Residents Task Force, ASCRS Young Physicians & Residents Clinical Committee, the ASOA Physician Relations Committee and the Cornea Society

Resident and Fellow registration required

OPENING GENERAL SESSION

10:00 AM–12:00 PM  Grand Ballroom

9:40  Musical Performance

Entrain
(Martha’s Vineyard-based 6-piece band)

Welcome
Edward J. Holland, MD*
Chair, ASCRS Program Committee

Presidents’ Addresses
Eric D. Donnenfeld, MD* (outgoing)
Richard A. Lewis, MD* (incoming)

2014 Honored Guests
Philip C. Hessburg, MD
Keiki R. Mehta, MS, DO, FIOS

ASCRS Foundation Update
Richard L. Lindstrom, MD*
Chair, ASCRS Foundation

ASCRS Ophthalmology Hall of Fame Ceremony
2014 Inductees
Vladimir P. Filatov, MD (deceased)
Theo Seiler, MD, PhD

Binkhorst Lecture
Microinvasive Glaucoma Surgery: An Idea Whose Time Has Come
Ike K. Ahmed, MD*

1:00  ASCRS Clinical Survey 2013 Results on Astigmatism
John A. Vukich, MD*

1:10  What Does Normal Look Like: Learnings Derived From a Large Database
Steve C. Schallhorn, MD*

1:20  Astigmatism: How Various Magnitudes and Manifestations Impact Optical Quality and Patient Satisfaction
Scott M. MacRae, MD*

1:30  Posterior Cornea: Is This the Hidden Factor?
Douglas D. Koch, MD*

1:40  Post Premium IOL: How Much Residual Error is Acceptable and What to Do About It?
Karl Stonecipher, MD*

1:50  Maximizing Toric IOL Results: Keys to Measuring and Aligning to the Correct Axis
Jay S. Pepose, MD

2:00  Correction of Astigmatism With Laser Vision Correction
Edward Manche, MD*

2:10  Correction of Astigmatism With LRI
Kerry D. Solomon, MD*

2:20  Nuts and Bolts of Managing Astigmatism: The Key Calculations You Really Need to Know
Doyle Stulting, MD, PhD*

Symposium:
Management of Astigmatism

1:00–2:30 PM  Room 210ABC

Sponsored by the ASCRS Refractive Surgery Clinical Committee

Moderator: John A. Vukich, MD*

Panelists: Michael O’Keefe, MB, BAO
Louis E. Probst, MD*
Jonathan B. Rubenstein, MD*
Charles D. Reilly, MD*
William B. Trattler, MD*

*Denotes financial interest; see Financial Interest Index for full listing
Symposium: Corneal Collagen Crosslinking: Where Are We Now and What Does the Future Hold?  
1:00–2:30 PM  Room 204AB

Sponsored by the ASCRS FDA Committee
Moderator: Michael W. Belin, MD,* Chair ASCRS FDA Committee
Panelists: Wiley Chambers  
Deputy Director of the Division of Transplant and Ophthalmology Products, Center for Drug Evaluation and Research, Food and Drug Administration
Sheraz M. Daya, MD, FACS*  
Chairman and Medical Director, Centre for Sight
Simon J. Dean, FRANZCO, FBCLA  
Associate, Eye Institute Vision Correction Specialists
William J. Link, PhD*  
Managing Director, Versant Ventures
Doyle Stulting, MD, PhD*  
Director, Stulting Research Center, Professor of Ophthalmology, Emory University

The 2014 FDA Symposium will focus on corneal collagen crosslinking. The session will feature remarks from Wiley Chambers, Deputy Director of the Division of Transplant and Ophthalmology Products, Center for Drug Evaluation and Research, U.S. Food and Drug Administration, who will address why the approval process is ongoing and the current status of corneal crosslinking in the United States.

Panelists will discuss the current available data on corneal collagen crosslinking. The discussion will also provide a summary of regulatory constraints on approval of this procedure and what it would take to get corneal crosslinking approved.

INTRAOCULAR SURGERY  
Phaco Techniques and Technology  
1:00–2:30 PM Room 151A

1:01 New Technique for Nuclear Emulsification in Cataract Operation
Hassan L. Fahmy, MD, PhD

1:06 Russian Technique of Laser Cataract Extraction With Nd-YAG 1.44 µm
Valentina G. Kopayeva, MD, PhD
Coauthor: Sergey Y. Kopayev, MD, PhD*

1:11 Forceps-Assisted Blade-Incision Twin Optimized mICS Emulsification Procedure for Calibrated Phaco Surgery
Arun Kumar Galli Lakshmi Narayanan, FRCS*  
Coauthor: Sivaganam Subbiah, BE*

1:16 Needle-Assisted Intrascleral Fixation of 3-Piece Posterior Chamber IOL for Aphakic Correction
Mayuresh P. Naik, MBBS
Coauthors: Harinder S. Sethi, MD, DNB,* Vishnu S. Gupta, MS*

Discussion

1:29 Objective Analysis of Capsulorhexis Surgical Skills Using Video-Image Analysis
Supported by a grant from the ASCRS Foundation
Ronald J. Smith, MD, MPH
Coauthors: Xue Wang, MS,* Alexander A. Sawchuk, PhD*

1:34 Identifying Optimum Limits of Concentration and Exposure Time of Trypan-Blue Dye to Stain Anterior Lens Capsule: Laser Spectroscopy Study
Minu M. Mathen, MD
Coauthor: Soumik Siddhanta, MS*

*Denotes financial interest; see Financial Interest Index for full listing
1:39 Microincision Cataract Surgery in Pseudoexfoliation Catsaracts
Puttaiah Mohan, MS, FRCSed
Coauthor: Mamatha R. Solur, MBBS, MS*

1:44 Notches and Flanges: Next Pupil-Dilating Device
Suven Bhattacharjee, MS, DO*

1:49 Endothelial Cell Loss After Bimanual Torsional Phacoemulsification and Microcoaxial Torsional Phacoemulsification
Sergey V. Shukhaev, MD
Coauthor: Yuri Takhtaev, MD*

Discussion

2:02 Hydrogel Ocular Bandages to Protect and Increase Watertight Properties of Corneal Incisions After Cataract Surgery: 4-Year Experience
Gabriele Scaltrini, MD
Coauthor: Matteo Piovella, MD*

2:07 Comparison of Intraoperative Wound Leakage in Clear Corneal Incisions After Closure With Stromal Hydration, Suture, or Ocular Sealant
Samuel Masket, MD*
Coauthors: Eric D. Donnenfeld, MD, *
John F. Doane, MD, * Bonnie An Henderson, MD, *
Terry Kim, MD, * Michael J. Endl, MD*

2:12 Single-Center Results of Ocular Sealant Evaluation Compared With Suture in Preventing Clear Corneal Incision Leakage After Cataract Surgery
Charles D. Reilly, MD*
Coauthors: William J. Flynn, MD, *
Edward E. Rashid, MD, * Robert A. Rice, MD*

2:17 Evaluation of Ocular Sealant for Prevention of Fluid Egress After Cataract Surgery: Multicenter Randomized Pivotal Trial
Terry Kim, MD*
Coauthors: John A. Hovanesian, MD, *
William J. Flynn, MD, * Jeffrey H. Levenson, MD, *
Samuel Masket, MD, * Farrell C. Tyson, MD, FACS*

Discussion

*Denotes financial interest; see Financial Interest Index for full listing
1-C INTRAOCULAR SURGERY
Presbyopia–Correcting IOLs
1:00–2:30 PM Room 154
Moderator: Sonia H. Yoo, MD*
Panelists: Fernando Aguilera-Zarate, MD
Rudy M. Nuijts, MD, PhD*
Leejee H. Suh, MD*

1:01 Multi-Center Observational Registry: Clinical Experience With Polyfocal Bioanalogic IOL
Juraj Urminsky, MD, PhD*

1:06 International Electronic Patient Registry: Clinical Experience With Polyfocal Bioanalogic IOL
Ewa Mrukwa-Kominek, MD, PhD*
Coauthors: José L. Güell, MD,* Ivo Nijs, MD,* Konstantin Lenis, MD*

Discussion

1:21 Parameters Affecting Performance of Extruded-Gel-Interface Accommodating IOL
Sean J. McCafferty, MD*

1:26 Evaluation of Fluid-Driven Lens Delivery System for Injectable Silicone-Oil-Filled Accommodating IOL
Manfred R. Tetz, MD
Coauthors: Paul Roux, MD,* Frik J. Potgieter, MD, FRCS*

1:31 High-Quality Distance and Near Vision With Dual-Optic Accommodating IOL: 3-Year Follow-up
Matteo Piovella, MD*
Coauthor: Barbara Kusa, MD*

Discussion

1:46 One-Year Clinical Results and Quality of Vision After Implantation of Preloaded Trifocal IOL
Cesare M. Fattori, MD
Coauthor: Matteo Piovella, MD*

1:51 Preliminary Results With New Double C-Loop Trifocal IOL
Camille R. Budo, MD*

Discussion

2:06 Prospective Evaluation of Uncorrected and Best-Corrected Vision With Innovative Presbyopic IOL Design
Peter Bohm, MD
Coauthors: Radan Zugar, MD,* Peter Bohm Jr, MD,* Michal Janek, MD*

2:11 Postoperative Training of Near Vision With Multifocal IOLs
Matthew D. Paul, MD

2:16 Presbyopic IOLs in Post-Radial-Keratotomy Eyes
Rajesh Khanna, MD
Coauthor: Chinar Singh, BS*

Discussion

1-D CORNEA
Crosslinking
1:00–2:30 PM Room 151B
Moderator: Donald TH Tan, FRCS*
Panelists: Clara C. Chan, MD, FRCSC*
Patrick I. Condon, FRCOphth
Arie L. Marcovich, MD*

1:01 Corneal CXL to Treat Progressive Astigmatism Caused by Intrastromal Arcuate Incisions
James C. Loden, MD*
Coauthor: Katie A. Mills, MD*

1:06 Effect of CXL the Pocket in SMILE Procedure on Corneal Biomechanics
Doaa Yousry, MD

1:11 Corneal CXL as Adjunct in Initial Treatment of Vision-Threatening Infectious Keratitis
Mustafa Kapasi, MD
Coauthors: Ronan J. Conlon, MD,* Salina Teja, MD,* Kashif Baig, MD, MBA*

Discussion

*Denotes financial interest; see Financial Interest Index for full listing
1:36 Evaluation and Comparison of Patient Outcomes After Epithelium-on CXL in Patients Older Than 35 Years Considered to Be at Higher Risk for Complications With CXL
Roy S. Rubinfeld, MD*
Coauthors: William B. Trattler, MD,* Rosane Correa, MD,* Gabriela Perez, MS*

1:41 Regional and Anisotropic Changes in Stromal Diffusivity After Corneal CXL With Riboflavin and UVA Light
George O. Waring IV, MD, FACS*
Coauthors: Richard G. Hepfer, BS,* Changcheng Shi, PhD,* Hai Yao, PhD*

1:46 Optimizing Fluence Settings and Riboflavin Composition for CXL in Antimicrobial Efficiency Against Pseudomonas Aeruginosa
Olivier Richoz, MD
Coauthors: Florence Hoogewoud, MD,* Farhad Hafezi, MD, PhD*

1:51 Variation in Central Corneal Thickness During Riboflavin Instillation in Corneal CLX With Open or Closed Eyes
Na Li, MD

Discussion

1-E KERATOREFRACTIVE Topography, Keratometry, Pachymetry
1:00–2:30 PM Room 150
Moderator: Perry S. Binder, MS, MD*
Panelists: Karolinne M. Rocha, MD, PhD*
Renato Ambrósio Jr, MD, PhD*
Samaresh Srivastava, DNB*

1:01 Effect of Flat Cornea on Visual Function After Refractive Surgery
Engy Mohamed Mostafa, MD, PhD

1:06 Intraoperative Noncontact Online Pachymetry for Measurement of Corneal Flap Thickness in LASIK Surgery
Patricio I. Grayeb, MD
Coauthors: Pablo J. Waimberg, MD,* Agustina De Gainza, MD,* Carolina Massa, MD,* Elias Grayeb, MD*

1:11 Corneal Topographic Change After PRK for Myopia: Follow-up Study Longer Than 15 Years
Osamu Hieda, MD
Coauthor: Shigeru Kinoshita, MD, PhD*
Discussion

1:21 Accuracy Advantage of Color LED Specular Reflection for Early Detection of Keratoconus
Xin Zhang, MD, PhD*
Coauthors: Victor Arni De Paz Sicam, PhD,* Nic J. Reus, MD, PhD,* Annette Geerards, MD, FRCOphth*

1:26 Keratometric Index in Keratoconus and in Keratoconus With Intracorneal Ring Segments
Victoria de Rojas, MD, PhD
Coauthors: Antía Gestoso, MD,* Maria Alejandra Gomez, MD,* Renata Pacheco Rodrigues, MD,* Maria Josefa Pombo García, MD,* Isabel Lopez, MD*

1:31 Correlation of Scheimpflug and Ocular Coherence Tomography Relational Thickness Metrics in Refractive Surgery Patients
Heather M. Weissman, MD
Coauthor: J. Bradley Randleman, MD*

1:36 Corneal Topography Using Placido Dual Rotating Scheimpflug, Swept-Source Optical Coherence Tomography, and Placido Scanning-Slit System
Yong Woo Lee, MD
Coauthor: Chul Young Choi, MD*

*Denotes financial interest; see Financial Interest Index for full listing
1:41 Comparison of Relational Corneal Thickness Measurements Obtained With Spectral Domain OCT of Topographically Normal and Suspicious Eyes
J. Bradley Randleman, MD
Coauthor: Heather M. Weissman, MD*

1:46 Comparison of Keratometry Measurements With Scheimpflug, Placido Disc, and Manual Keratometry in Patients With Normal and Suspicious Topography
Claudia E. Perez-Straziota, MD
Coauthor: J. Bradley Randleman, MD*

Discussion

1:56 Change in Epithelial Thickness After Corneal Refractive Surgery
Shaun B. Robinson, MD
Coauthors: Li Wang, MD, PhD,* Douglas D. Koch, MD*

2:01 Long-Term 3-Dimensional Post-LASIK Epithelial Thickness Change and Remodeling
David J. Sackel, MD, MBA
Coauthors: George Asimellis, PhD,* A. John Kanellopoulos, MD*

2:06 Correlation of 3-Dimensional Epithelial Thickness Variability in Healthy and Keratoconic Eyes
Aimee R. Edell, MD
Coauthors: Ioanna Kontari, MD,* Sophia Bourdou, RN,* A. John Kanellopoulos, MD*

Discussion

KERATOREFRACTIVE
Presbyopia
1:00–2:30 PM
Room 155
Moderator: Paul J. Dougherty, MD*
Panelists: Beatrice Cochener, MD, PhD*
Ramamurthy Dandapani, MD
Gregory D. Parkhurst, MD*

1:01 Relationship Between Amplitude of Accommodation and Biometric Parameters in Early Presbyopic Eyes
Amir Faramarzi, MD

1:06 Finite-Element Model to Analyze Influence of Age-Related Ocular Rigidity on Visual Accommodation
AnnMarie Hipsley, PhD*
Coauthors: George O. Waring IV, MD, FACS,* Mark Wilder, MS, MBA*

1:11 Computer-Animated Model of Accommodation and Presbyopia
Daniel B. Goldberg, MD*

Discussion

1:21 Evaluation of LASIK Treatment for Post-LASIK Presbyopia: 6-Month Data
Robert Edward T. Ang, MD*

1:26 One-Year Experience of Presbyopia Correction With Monovision Approach in Surface Ablation Using Multifocal Bi-Aspheric Ablation Profile
Erika N. Eskina, MD*
Coauthor: Pavel Rybakov*

Discussion

1:36 Early Outcomes With Transparent Hydrogel Corneal Inlay for Correction of Presbyopia
Julian Theng, FRCOphth, MMed

1:41 Early Commercial Experience With Clear Hydrogel Corneal Inlay: Comparative Look With Monovision LASIK
Cornelis Verdoorn, MD*

1:46 Overall Satisfaction in Patients Implanted With Hydrogel Corneal Inlay
Jeffrey Whitman, MD*

Discussion

1:56 Single-Center Experience With Improvement of Near Visual Acuity Using Scleral Implants for Treatment of Presbyopia: 2-Year Data
Claus M. Fichte, MD*
Coauthor: Michael J. Endl, MD*

*Denotes financial interest; see Financial Interest Index for full listing
2:01 Multicenter FDA Clinical Trial of Treatment of Presbyopia Using Scleral Implants: Preliminary Findings  
David J. Schanzlin, MD*  
Coauthor: Barrie D. Soloway, MD*

2:06 Effect of Refinements in Surgical Instrumentation and Scleral Implant Device and Technique on Presbyopia Treatment  
Barrie D. Soloway, MD*  
Coauthor: David J. Schanzlin, MD*

Karl G. Stonecipher, MD*

Discussion

Symposium: Imaging the Anterior Segment With the Ophthalmic Photographers’ Society  
3:00–5:00 PM  
Room 204AB

Sponsored by the Ophthalmic Photographers’ Society  
Moderator: Robert Cavicchi, CRA, FOPS

Anterior segment (AS) imaging techniques will be presented by the Ophthalmic Photographers’ Society. Topics will include an introduction to the OPS, mastering slitlamp techniques, imaging AS tumors, AS-OCT, AS imaging from mobile devices, digital cameras for external photographs, Plaquenil screening, structural color and perfecting video of cataract surgery. At the conclusion of the session, attendees should feel more confident about imaging the anterior segment and be able to describe several methods for imaging the anterior segment.

3:00 OPS: Who We Are, What We Do, and Why You Should Care  
Timothy Bennett, CRA, OCT-C*

3:06 Mastering Slitlamp  
Alan N. Carlson, MD*

3:22 Anterior Segment Imaging of Tumors  
Sandor Ferenczy, CRA, OCT-C*

3:38 Anterior Segment Optical Coherence Tomography  
Kenneth L. Cohen, MD  
Sarah Moyer, CRA, OCT-C

3:54 Have a Smart Phone? Use Its Smarts!  
Josef Tamory, BS, COA

4:10 How to Choose and Configure a Point and Shoot Digital Camera for Good External Clinical Photographs  
Richard E. Hackel, CRA, FOPS

4:26 Plaquenil Screening  
Corey Westerfeld, MD

4:39 Keynote Lecture  
Structural Color AND Perfecting Video of Cataract Surgery  
Robert H. Osher, MD*

Symposium: Challenging Video Cases for the Young Surgeon  
3:00–4:30 PM  
Room 205ABC

Sponsored by the ASCRS Young Physicians & Residents Clinical Committee  
Moderator: Elizabeth Yeu, MD*  
Committee: John P. Berdahl, MD*  
Clara C. Chan, MD, FRCSC*  
Edwin S. Chen, MD  
Sumit (Sam) Garg, MD*  
Preeya K. Gupta, MD  
Jeremy Z. Kieval, MD*  
Bryan S. Lee, MD, JD  
Ken Y. Lin, MD, PhD  
Sherman W. Reeves, MD, MPH*  
Leejee H. Suh, MD*

The symposium will feature difficult and challenging surgical cases—in video format—pertaining to cataract/IOL/iris and refractive surgery challenges, highlighting the basic concepts and fundamentals for the beginning surgeon. The committee will discuss how they would handle each case, including their personal surgical approach, while providing tips and pearls particularly relevant for the beginning surgeon.

*Denotes financial interest; see Financial Interest Index for full listing
Symposium: Management of Complicated Cases in Cataract and Refractive Surgery (Presented in Spanish)

Sponsored by the Latin American Society of Cataract and Refractive Surgeons ALACCSA-R (LASCRS)

3:00–5:00 PM

A panel of international experts will discuss complicated cases and their management. Panel will encourage audience participation.

**Cataract**

**Moderators:** William C. De La Peña, MD
Carlos Palomino, MD*
Miguel Padiña, MD

**Panelists:** José A. Claros Bernal, MD
Virgilio Centurión, MD*
Luis W. Lu, MD
Carlos L. Nicoli, MD
Claudia Palacio, MD
Marcelo C. Ventura, MD
Humberto J. Bellos, MD

**Presenters:** Leticia Arroyo-Muñoz, MD
Alfonso Arias-Puente, MD
Eduardo Chávez Mondragón, MD
José A. Cristóbal Bescos, MD, PhD
Luis J. Escal, MD*
Néstor Gullo Jr, MD
Enrique Suárez, MD

**Refractive**

**Moderators:** César C. Carriazo, MD*
Miguel Srur, MD

**Panelists:** Carmen Barraquer, MD
Maria José Cosentino, MD
Tito Ramirez Luquin, MD
Fernando L. Soler, MD

**Presenters:** Carlos A. Ferroni, MD
Luis Izquierdo Jr, MD
Juan Guillermo Ortega, MD
Mauricio A. Pérez, MD
Francia Torres, MD
Fernando C. Trindade, MD, PhD*
Roberto Zaldivar, MD*

**RETINA**

3:00–4:30 PM

**Room 150**

**Moderator:** Keith A. Warren, MD

**Panelists:**
David S. Boyer, MD*
Tsukasa Hanemoto, MD*
William F. Mieler, MD*

3:01 Optical Coherence Tomography Features in Unilateral and Bilateral Pseudoexfoliation Syndrome Versus Normal Eye

Cem Simsek, MD
Coauthors: Fatma Çorak Eroğlu, MD,* Ali Kal, MD,* Leyla Erkanlı, MD,* Gursel Yılmaz, MD*

3:06 Retinal Thickness Changes After Phacoemulsification

Gede Pardianto, MD, PhD

**Discussion**

3:25 Novel Angiographic Classification of Polypoidal Choroidal Vasculopathy and Impact on 5-Year Visual Outcomes

Colin S. Tan, MD*
Coauthor: Wei Kiong Ngo, MBBS*

3:30 Evaluation of Rifampicin in Treatment of Central Serous Chorioretinopathy

Seemantini Ayachit, DOMS

3:35 Effect of 2-Year HARBOR Results of Individualized Dosing in Patients With Wet Age-Related Macular Degeneration

Elías Reichel, MD*
Coauthors: Zhengrong Li, PhD,* Phillip Lai, MD*

**Discussion**

3:54 Intravitreal Dexamethasone Implant in Crystalline Lens

Fatma Çorak Eroğlu, MD
Coauthors: Aylin Karalezli, MD,* Bengü Ekinci Köktekir, MD*

3:59 Caveolin-1 Expression in Lens Epithelial Cells of Diabetic Cataract

Ji-young Shin, MD
Coauthors: Young-sik Yoo, MD,* Sung Kun Chung, MD, PhD*

*Denotes financial interest; see Financial Interest Index for full listing
4:04  Stiffening of Rabbit Sclera by Bacteriochlorophyll Derivative WST11 Using Near Infrared Light  
Arie L. Marcovich, MD*  
Coauthors: Alexander Brandis, PhD,*  
Iddo Pinkas, PhD,* Ilan Feine, PhD,*  
Hanoch D. Wagner,* Yoram Salomon, PhD,*  
Avigdor J. Scherz, PhD*  

4:09  Impact of Surgeon Subspecialty Training on Surgical Outcomes in Open-Globe Injuries  
Sidharth Puri, BA  
Coauthor: Shameema Sikder, MD*  

Discussion  

INTRAOCULAR SURGERY Complications  
3:00–4:30 PM  
Room 151A  
Moderator: Thomas Kohnen, MD, PhD*  
Panelists: Arup Chakrabarti, MS  
Donald N. Serafano, MD*  
Mitchell P. Weikert, MD*  

3:01  Aberrometry Changes and IOL Decentration  
Alla Varavka, MD  

3:06  Inter-Eye Differences in Patients With Pseudoexfoliation Syndrome Presenting With IOL Dislocation  
Victoria C. Leung  
Coauthors: Harmanjit Singh, MD,* Ike K. Ahmed, MD*  

3:11  Pathological Evidence of Pseudoexfoliation in Cases of in-the-Bag IOL Subluxation/Dislocation  
Scott C. Cole, MD  
Coauthors: Erica T. Liu, MD,* Fritz Hengerer, MD,*  
Liliana Werner, MD, PhD,* Nick Mamalis, MD,*  
Oliver K. Klaproth*  

Discussion  

3:30  Capsular Tension Segments for Dislocated Cataract Extraction by Phacoemulsification  
Patrick Gooi, MD  
Coauthors: Taylor H.W. Lukasik,* Ike K. Ahmed, MD*  

3:35  In-the-Bag IOL Dislocation: Comparison of Presentation Characteristics and Surgical Outcomes in Eyes With and Without CTR  
Betty Lorente, MD  
Coauthors: Ramón Lorente, MD, PhD,*  
Victoria de Rojas, MD, PhD,*  
Paula Vázquez de Parga, MD*  

3:40  Intraocular Polyimide IOL Haptic Breakage Long-Term Postoperatively: Report of 2 Cases  
Shannon L. Stallings, MD  
Coauthors: Liliana Werner, MD, PhD,*  
Arturo S. Chayet, MD,* Samuel Masket, MD,*  
Fidel Camacho, MD,* Nick Mamalis, MD*  

Discussion  

3:59  Cumulative Cystoid Macular Edema Rates After Large Series of MICS IOL Implantations  
Gilles Lesieur, MD*  

4:04  Impact of Existing Risk Factors and Surgical Events on Postoperative Cystoid Macular Edema in Cataract Surgery: OSOD Project Results  
David Vollman, MD, MBA*  
Coauthors: Kate Blanquart,* Amy Chomsky, MD,*  
Mary K. Daly, MD,* Elizabeth Baze, MD,*  
Mary G. Lawrence, MD, MPH*  

4:09  Analysis of Affecting Factors on Macular Thickness Change After Phacoemulsification and IOL Implantation  
Dong Won Hyun, MD  
Coauthors: Mee Kum Kim, MD,*  
Won Ryang Wee, MD, PhD*  

Discussion  

*Denotes financial interest; see Financial Interest Index for full listing
INTRAOCULAR SURGERY
Femtosecond Laser

3:00–4:30 PM  Room 151B

Moderator: Steven J. Dell, MD*
Panelists: Brock K. Bakewell, MD*
William W. Culbertson IV, MD*
Richard S. Davidson, MD*

3:01 Six-Month Review of Nomogram for Nonpenetrating Femtosecond Laser Intrastromal Astigmatic Keratotomy During Femtosecond Laser–Assisted Cataract Surgery
Nicola M. Lau, MB, BSc(Hons)
Coauthors: Julian D. Stevens, FRCOphth,*
Alexander C. Day, PhD, MRCOphth*

3:06 Six-Month Outcomes and Refractive Stability: Prospective Study of Femtosecond Laser–Assisted Lens Surgery
Alexander C. Day, PhD, MRCOphth
Coauthors: Nicola M. Lau, MB, BSc(Hons),*
Julian D. Stevens, FRCOphth*

3:11 Refractive Outcomes After Femtosecond Laser and Intraoperative Aberrometry-Assisted Cataract Surgery in Post-LASIK Eyes
Kerry K. Assil, MD*
Coauthor: Ajay Pillai, MD*

Discussion

3:24 Efficacy and Safety of Femtosecond Laser–Assisted Lens Surgery With 2 Personal Interfaces
Fritz Hengerer, MD
Coauthor: Thomas Kohnen, MD, PhD*

3:29 Surgical Outcomes With New Patient Interface for Laser Refractive Cataract Surgery
Stephen Slade, MD*
Coauthor: Michael C. Knorz, MD*

Discussion

3:42 Comparison of Femtolaser-Assisted Cataract Surgery and Conventional Phacoemulsification
Dominique Monnet, MD, PhD*

3:47 Comparison of High-Order Aberrations and Endothelial Cell Loss Between Standard Phacoemulsification and Femtosecond Laser–Assisted Cataract Surgery
Angel A. Pineda-Fernandez, MD

3:52 Clinical Experience With Novel Femtosecond Laser
Baseer Khan, MD, FRCSC*
Coauthor: Gurinder P. Sanghera, MD, FRCSC*

Discussion

4:05 Femtosecond Laser–Assisted Cataract Surgery: Evaluation of Functional Results in Contralateral Comparative Single-Center Study
Mike P. Holzer, MD*
Coauthors: Ramin Khoramnia, MD,*
Anna Fitting, MSc,* Mary Safwat A. Attia, MD,*
Florian N. Auerbach, MD,* Gerd U. Auffarth, MD*

4:10 Evaluating Visual Acuity, Keratometric Data, and Refractive Parameters in 52 Patients With Femto-Assisted Cataract Surgery in Brazil
Celso Boianovsky, MD
Coauthors: Francisco S. Soares, MD,*
Jonathan C. Lake, MD,* Alfredo Tranjan, MD,*
Fabio H. Casanova, MD, PhD*

4:15 Comparison of Short-Term Visual Outcome of Multifocal IOL Implantation With Femtosecond Laser–Assisted Cataract Surgery and With Conventional Surgery
Soon-Phaik Chee, FRCS*
Coauthors: Younian Yang,* Seng-Ei Ti, FRCS(Ed)*

Discussion

*Denotes financial interest; see Financial Interest Index for full listing
**ASCRS Program—Scientific Papers and Symposia**

**Saturday, April 26**

**CORNEA Keratoconus**

**1-J**

3:00–4:30 PM

*Room 155*

**Moderator:** Francis W. Price Jr, MD*

**Panelists:**
- Stephen S. Khachikian, MD
- Michael B. Raizman, MD*
- David T. Vroman, MD*

**3:01** Optimized Decision-Tree for Keratoconus Management: Considering Clinical Data and Enhanced Diagnostic Approach

*Fernando Faria-Correia, MD*

Coauthors: Isaac C. Ramos, MD,* Bruno F. Valbon, MD,* Bernardo T. Lopes, MD,* Renato Ambrósio Jr, MD, PhD*

**3:06** Patient Acceptance and Tolerance of Semi-Scleral Contact Lenses

*Peng Yan, MD*

Coauthors: Mustafa Kapasi, MD,* Salina Teja, MD,* Ronan J. Conlon, MD,* Joshua C. Teichman, MD, MPH,* Kashif Baig, MD, MBA*

**3:11** Scheimpflug Imaging Parameters in Keratoconus Patients Without Treatment: 2-Year Follow-up

*María A. Henríquez, MD*

Coauthor: Luis Izquierdo Jr, MD*

**3:24** Definitions and Concepts of Keratoconus and Ectatic Corneal Diseases: Pan-American Delphi Consensus

*Renato Ambrósio Jr, MD, PhD*

Coauthors: Jose A.P. Gomes, MD, PhD,* Victor L. Perez, MD*

**3:29** Keratoconus With Low Keratometry: Topometric, Tomographic, and Biomechanical Characteristics

*Bernardo T. Lopes, MD*

Coauthors: Isaac C. Ramos, MD,* Allan Luz, MD,* Rosane Correia, MD,* Bruno F. Valbon, MD,* Marcella Salomão, MD,* Rodrigo T. Santos, MD,* Renato Ambrósio Jr, MD, PhD*

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**3:34** Placido Topography Versus Scheimpflug Imaging for Topo-Guided Treatment Combined With High-Fluence Crosslinking: Athens Protocol

*Gregory J. Pamel, MD*

Coauthor: A. John Kanellopoulos, MD*

**3:39** Screening Procedures and Surgical Management of Keratoconus in European Ophthalmological Practice

*Patrick I. Condon, FRCOphth*

**3:44** Unilateral Keratoconus: Truth Versus Myth

*Ramon Katoozpour, MD*

Coauthors: Mahmoud Jabbarvand, MD,* Hesam Hashemian, MD,* Mehdi Khodaparast, MD*

**3:57** Multifocal Toric IOL Implantation in Forme Fruste and Stable Keratoconus

*Karla P. López, MD*

Coauthors: Margarita Montano, MD,* Alejandro Navas, MD, MSc,* Arturo J. Ramirez-Miranda, MD,* Enrique O. Graue-Hernandez, MD*

**4:02** Detection of Forme Fruste Keratoconus Using Corneal Higher-Order Aberration Measurement

*Mehdi Khodaparast, MD*

Coauthors: Narges Hassanpoor, MD,* Mahmoud Jabbarvand, MD,* Hesam Hashemian, MD*

**4:07** Mid-Stromal Isolated Bowman Layer Graft to Reduce and Stabilize Advanced Keratoconus to Postpone Penetrating or Deep Anterior Lamellar Keratoplasty

*Jack Parker Jr, MD*

Coauthors: Korine van Dijk,* Lisanne Ham,* Jessica Lie,* Esther Groeneveld-van Beek,* Gerrit R. Melles, MD, PhD*

**4:12** Combined PRK and CXL in Management of Mild to Moderate Keratoconus: 3-18 Month Results

*Keerti K. Ayachit, MS*

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*Denotes financial interest; see Financial Interest Index for full listing*
**KERATOREFRACTIVE Surgical Techniques and Technology**

3:00–4:30 PM  
Room 152  
Moderator: Majid Moshirfar, MD  
Panelists: Ella G. Faktorovich, MD  
Jeffery J. Machat, MD, FRCSC*  
Mohamad Rosman, FRCS(Ed(Ophth)), FAMS  

3:01 Wavefront-Guided Versus Conventional Ablation in Treating Residual Myopia Post LASIK  
Kenneth A. Garrett, MA  
Coauthors: Jonathan N. Kruh, MD,  
Samir Melki, MD, PhD  

3:06 Clinical Outcomes of Z-LASIK for Myopia in Ocular Wavefront Customized Ablations  
Maria C. Arbelaez, MD*  
Coauthor: Samuel Arba Mosquera, PhD  

3:11 Comparison of Visual Outcomes After Correcting Myopia Using Variable Spot-Scanning Refractive Procedure Versus Wavefront Optimized Procedure  
Mounir A. Khalifa, MD, PhD*  
Coauthor: Ehab F. Mossallam, MD  

3:16 Validity and Accuracy of Hartmann-Shack Wavefront Sensor-Based Autorefractor  
Hunjae Won, MD  
Coauthors: Myoung Joon Kim, MD,  
Jin Hyoun Park, MD, In Seok Song, MD,  
Jong Hoon Park, MD, Jae Yong Kim, MD, PhD,  
Hungwon Tchah, MD  

3:21 Corneal Wavefront Reality Versus Myth  
Kumar J. Doctor, MD  

**Discussion**

3:34 Topography-Guided LASIK for Treatment of Myopia and Myopic Astigmatism  
Doyle Stulting, MD, PhD*  
Coauthor: Barbara S. Fant, PharmD  

3:39 Comparison of Thickness of LASIK Flap Created by Mechanical Microkeratome and Femtosecond Laser  
Bulat Aznabaev, DSc*  
Coauthors: Timur Mukhamadeev, MD,  
Tagir Dibaev, MD, Vadim Makhmutov, MD  

3:44 Fellow-Eye Comparison of Quality of Vision Outcomes in LASIK Patients After Standard Versus Inverted Side-Cut Femtosecond Flaps  
Christopher S. Sales, MD, MPH  
Coauthor: Edward E. Manche, MD  

**Discussion**

3:57 Evaluation of 2 Energy Pattern Outcomes in Refractive Lenticule Extraction and Femto-LASIK  
Detlev R. H. Breyer, MD*  
Coauthors: Hakan Kaymak, MD, Karsten Klabe, MD,  
Corinna Pohl, PhD  

4:02 Comparison of Visual and Refractive Outcomes of Femto-LASIK Versus Flapless Small-Incision Femtosecond Lenticule Extraction  
Sri Ganesh, MBBS, MS, DNB*  

4:07 Comparison of Femto-LASIK and Small-Incision Lenticule Extraction for Treatment of High Myopia  
Rupal S. Shah, MD*  

4:12 Femtosecond Corneal Lenticule Extraction Compared With Conventional LASIK in Refractive Surgery  
Oleg Kostin, MD  
Coauthors: Sergey V. Rebrikov, MD,  
Alexander Ovchinnikov, MD, Alexey Stepanov, MD  

**Discussion**  

*Denotes financial interest; see Financial Interest Index for full listing
3:00–4:30 PM  Room 154

**Moderator:** Reay H. Brown, MD*
**Panelists:** Carlos Buznego, MD*  Brian A. Francis, MD*  Thomas Patrianakos, MD

3:01  **Comparison of Combined Cataract Surgery With Trabecular Micro-Bypass Stent Versus Ab-Interno Micro-Cautery Trabeculotomy**

Michelle Khan, BSc(Hons)
Coauthors: Hady Saheb, MD, MPH,*  Arvind Neelakantan, MD, FRCOphth,*  Ronald L. Fellman, MD,*  Zachary D. Vest, MD,*  Paul Harasymowycz, MD,*  Ike K. Ahmed, MD*

3:06  **Trabecular Micro-Bypass Outcomes After Routine Cataract Surgery**

David M. Tremblay, MD
Coauthors: Helga P. Sandoval, MD, MSCR,*  Kerry D. Solomon, MD*

3:11  **Evaluation of Trabecular Micro-Bypass Stent in Pseudophakia**

Tanner J. Ferguson
Coauthors: Justin A. Schweitzer, OD,*  John P. Berdahl, MD*

**Discussion**

3:21  **Technology and Techniques for Precision, Customization, and Optimized Safety: Microinvasive Refractive Cataract Glaucoma Surgery**

Richard L. Lindstrom, MD*

3:26  **Cataract Surgery Combined With Trabecular Micro-Bypass Stent Implantation in Patients With Open-Angle Glaucoma: 1-Year Follow-up**

George H. Beiko, BM BCh, FRCSC*

3:31  **Long-Term Outcomes of MIGS With Trabecular Micro-Bypass Stents and Prostaglandin in Open-Angle Glaucoma**

Douglas J. Rhee, MD*

3:36  **Surgical Technique and Outcomes of ICE: MIGS Implantation of Trabecular Bypass Stent, Cataract Surgery, and Endoscopic Cyclophotocoagulation**

Nathan M. Radcliffe, MD*
Coauthors: Kristin Chapman, MD,*  Robert J. Noecker, MD, MBA,*  Parag Parekh, MD, MPA*

Discussion

3:46  **Outcome of Glaucoma Valve Implantation for Refractory Glaucoma in Kuwait**

Adel Aljazzaf, MD, FRCS

3:51  **Intraocular Pressure 1 Year After Phaco-Canaloplasty**

Cyres K. Mehta, MD, MCH
Coauthor: Keiki R. Mehta, MS, DO, FIOS*

3:56  **Short- and Mid-Term Results of Schlemm Canal Dilation Using Novel Stainless-Steel Spiral Intracanalicular Device to Treat Open-Angle Glaucoma**

Galina N. Dushina, MD
Coauthors: Elena V. Bozhok, MD,*  Vinod Kumar, MD, PhD,*  Mikhail A. Frolov, MD, PhD*

4:01  **Postoperative Outcomes After Implantation of Glaucoma Drainage Device in Indian Eyes**

Viraj Vasavada, MS*
Coauthors: Mayuri Khumar, MS,*  Abhay R. Vasavada, MS, FRCS,*  Vaishali Vasavada, MS,*  Samaresh Srivastava, DNB*

4:06  **Correlation of Episcleral Venous Fluid Wave With Type and Extent of Canal-Based Surgery**

Ronald L. Fellman, MD*
Coauthor: Davinder S. Grover, MD, MPH*

Discussion

*Denotes financial interest; see Financial Interest Index for full listing
Symposium:
Survive or Thrive in the Modern Healthcare Environment: Clinical Changes to Practice

8:00–9:30 AM  Room 210ABC
Moderators: Eric D. Donnenfeld, MD*
Kerry D. Solomon, MD*
Panelists: Thomas F. Burke*
Mark Rosenberg

During this symposium expert faculty will describe specific changes and additions they have made in their practices to improve patient satisfaction, quality of care, new technologies, and patient shared billing premium services.

8:00  Marketing Your Practice and Social Media
Candace S. Simerson, COE*

8:10  Making Electronic Medical Records Work for Your Practice
Thomas F. Burke*

8:20  The Integrated Eye Care Model: Adding Optometry and Physician Extenders to Your Practice
Stephen S. Lane, MD*

8:30  What Should the Private Practice Ophthalmologist Be Doing About Accountable Care Organizations and Hospital Insurance Companies?
Bruce Maller*

8:40  Adding a Dry Eye Center of Excellence
Marguerite B. McDonald, MD*

8:50  How to Make an ASC Work for You
Bradley C. Black, MD

9:00  How to Start Performing Premium IOLs
Robert J. Cionni, MD*

9:10  Getting Involved With Femtosecond Laser–Assisted Cataract Surgery
Richard L. Lindstrom, MD*

9:20  MIGS for the Comprehensive Ophthalmologist
Richard A. Lewis, MD*

Symposium:
Clinical Challenges in the Co-Management of Glaucoma and Retinal Disease

8:00–9:30 AM  Room 205ABC
Sponsored by the ASCRS Glaucoma Clinical Committee and the ASCRS Retina Clinical Committee
Moderator: Douglas Rhee, MD*
Keith A. Warren, MD*
Panelists: David S. Boyer, MD*
Garry P. Condon, MD*
Brian A. Francis, MD*
William F. Mieler, MD*
Kevin M. Miller, MD*
Timothy W. Olsen, MD
Thomas W. Samuelson, MD*
Steven Vold, MD*

Dislocated IOLs
Bleb Related Infection
Intraocular Steroid Associated Glaucoma
Neovascular Issues
Hypotony Maculopathy
Aqueous Redirection

*Denotes financial interest; see Financial Interest Index for full listing
**Symposium: Combined Symposia of Cataract and Refractive Societies**

*8:00–9:30 AM  Room 204AB*

**Sponsored by the Alliance of Cataract and Refractive Specialty Societies**

- **American Society of Cataract and Refractive Surgery (ASCRS)**
- **Asia-Pacific Association of Cataract and Refractive Surgeons (APACRS)**
- **European Society of Cataract and Refractive Surgeons (ESCRS)**
- **Latin American Society of Cataract and Refractive Surgeons (ALACCSA-R/LASCRS)**

**Moderator:** Edward J. Holland, MD*

**Commoderators:**
- Graham D. Barrett, FRANZCO*
- Roberto Bellucci, MD*
- William C. De La Peña, MD

This symposium will bring an international field of experts together to discuss the ‘Best of CSCR’. The best presentations from ALACCSA, APACRS and ESCR will be presented and discussed. This session will emphasize the various techniques and technologies being pursued in different regions of the world.

- **8:00** Infectious Keratitis in Asia  
  *Donald TH Tan, FRCS*

- **8:10** Aspheric Presbyopic Correction With the Light-Adjustable IOL  
  *Arturo S. Chayet, MD*

- **8:20** Role of the Posterior Capsule in Predicting Refractive Outcome: Effective Lens Position  
  *Graham D. Barrett, FRANZCO*

- **8:30** Phakic IOLs in 2014  
  *Miguel Srur, MD*

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**INTRAOCULAR SURGERY**

**Phaco Techniques and Technology**

*8:00–9:30 AM  Room 151A*

**Moderator:** Eduardo S. Soriano, MD

**Panelists:** Camille R. Budo, MD*
- Sumit (Sam) Garg, MD*
- Minu M. Mathen, MD

- **8:01** Avoiding Capsular Damage With New Prechopper Set  
  *Arturo Pérez-Arteaga, MD*

- **8:06** Nucleus Division Without Rotation: Umbrella Technique  
  *Tsukasa Hanemoto, MD*

- **8:11** Phacochop Versus Stop and Chop: Comparative Analysis of Phaco Parameters and Visual Acuity  
  *Jerman M. Alqahtani, MD*

- **8:23** Effect of Phaco Tip With Large Bore Size on Ultrasound Energy in Eyes That Had Femtosecond Laser Nuclear Fragmentation  
  *Andrew W. Crothers, MD*

**Discussion**

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*Denotes financial interest; see Financial Interest Index for full listing*
8:28  Efficiency of Radiused Tip in Phacoemulsification  
William R. Barlow, MD  
Coauthors: Jeff H. Pettey, MD, Randall J. Olson, MD

8:33  Comparison of Off-Centered Phaco Tips  
Takayuki Akahoshi, MD

Discussion

8:45  Efficiency of Micropulse On-Time Duty Cycle Settings  
Jeff H. Pettey, MD  
Coauthors: Randall J. Olson, MD, William R. Barlow, MD, Brian E. Zaugg, MD, Brian C. Stagg, MD, Kevin Kirk, Cecilio Ronquillo Jr, PhD, Jason D. Jensen, Mohammed A. Farukhi, Isha Gupta

8:50  Hemineuclear Comparison of Emulsification Metrics Between New Phacoemulsifier and Predecessor  
Richard B. Packard, MD, FRCS*

8:55  Global Evaluation of Dual-Linear Versus Co-Linear Foot Pedal Control During Cataract Surgery  
R. Bruce Wallace III, MD*

Discussion

9:07  Novel Phacoemulsification System Using Feedback-Based IOP Target Control  
Mikhail Boukhny, PhD*  
Coauthors: Gary P. Sorensen, BSME, Raphael Gordon, BSEE

9:12  Effect of Phacoemulsification at Physiological IOP Level  
Gabor B. Scharioth, MD, PhD*

9:17  Increased Efficiency in Phacoemulsification of Hard Cataracts Using Phaco Machine With Balanced Microtip  
James A. Davison, MD*

Discussion

INTRAOCULAR SURGERY
Power Calculations, Biometry, Imaging

8:00–9:30 AM  Room 152

8:01  Accuracy of Corneal Power Measurements for IOL Power Calculation After Myopic LASIK  
Mohammad Abdul-Monaem M. El-Hifnawy, MD

8:06  Clinical Comparison of Methods to Calculate IOL Power After Myopic LASIK and PRK  
Giacomo Savini, MD  
Coauthors: Kenneth J. Hoffer, MD,* Virna Casamenti, MD*

8:11  Comparison of IOL Prediction Error and Contributing Factors in Patients With and Without Prior Laser Refractive Surgery  
Deep Parikh  
Coauthors: Stephen Kin-Yip Cheng, Carrie B. Zaslow, MD,* Anne S. Steiner, MD,* Carolyn Y. Shih, MD, MPH*

8:16  Intraocular Lens Power Selection After RK: Topography, Manual, and Partial Coherence Interferometry Keratometry Results Using Haigis Formula  
Harry S. Geggel, MD*

Discussion

8:26  Correlation Between Measured ELP and Crystalline Lens Position as Tool for Customized IOL Calculation  
Joao Crispim, MD  
Coauthors: Wallace Chamon, MD,* Norma Allemann, MD*

*Denotes financial interest; see Financial Interest Index for full listing.
**ASCRS Program—Scientific Papers and Symposia**

**Sunday, April 27**

**8:31** Effect of Posterior Corneal Cylinder on Toric IOL Calculation After Laser Refractive Surgery  
Orkun Muftuoglu, MD  
Coauthor: Orhan Ayar, MD*

**8:36** Improving IOL Power Selection in Second Eye Using First-Eye Results  
Gerald P. Clarke, MD*

**8:41** Repeatability of Corneal Astigmatism Measurements  
Nic J. Reus, MD, PhD  
Coauthor: Victor Arni De Paz Sicam, PhD*

**8:51** Results With New Axial Length Optical Biometer  
Kenneth J. Hoffer, MD*

**8:56** Comparison of IOL Power Calculations in Post-Laser Vision Correction Eyes Having Cataract Surgery Using Multiple Methods  
Nicole R. Fram, MD*  
Coauthors: Samuel Masket, MD,* Li Wang, MD, PhD*

**9:01** Accuracy of Multifocal IOL Power Calculation Using 2 Biometry Devices and Various IOL Power Calculation Formulas  
Ehud I. Assia, MD*  
Coauthors: Olga Reitblat,* Adi Abulafia, MD,* Yokrat Ton, MD,* Adi Levy,* Guy Kleinmann, MD*

**9:06** Comparative Analysis of Optical Versus Immersion Biometry in Silicone-Oil-Filled Eyes  
Niraj K. Agrawal, MS  
Coauthors: Vinayak Kumar, MS,* Haripriya Aravind, MD,* Puja Bhuwania*

**9:11** Clinical Results of the Hoffer H-5 Formula: 3,000 Eye Global Collaborative Study  
Kenneth J. Hoffer, MD*

**9:26** Bilateral Versus Contralateral Implantation of Aspheric Diffractive Multifocal IOL  
Rudy M. Nuijts, MD, PhD*

**8:00–9:30 am**  
**Room 150**

**INTRAOCULAR SURGERY**  
**Presbyopia—Correcting IOLs**

**8:01** Comparison of Quality of Vision With Multifocal IOL in 1 Eye and Piggyback Sulkus Multifocal IOL in Contralateral Eye  
Hema Srinath, MBBS, DNB  
Coauthor: Sudeep Das, MD, DNB*

**8:06** Comparison of Visual Function in Patients With Multifocal Toric and Monofocal Toric IOLs  
Ken Hayashi, MD  
Coauthors: Miki Masumoto, MD,* Minehiro Takimoto, MD*

**8:11** Clinical Outcomes of Unilateral Implantation of Diffractive Multifocal IOL in Patients With Contralateral Monofocal IOL  
Hungwon Tchah, MD*  
Coauthors: Hunjae Won, MD,* In Seok Song, MD,* Jin Hyoung Park, MD,* Jong Hoon Park, MD,* Jae Yong Kim, MD, PhD,* Myoung Joon Kim, MD*

**8:26** Bilateral Versus Contralateral Implantation of Aspheric Diffractive Multifocal IOL  
Rudy M. Nuijts, MD, PhD*

**8:31** Long-Term Visual Acuity Results and Reading Performance With Salzburg Reading Desk After Implantation of Segmental Refractive Multifocal IOL  
Katharina Linz, MD*  
Coauthors: Ramin Khoramnia, MD,* Anna Fitting, MSc,* Mary Safwat A. Attia, MD,* Florian T. Kretz, MD,* Gerd U. Auffarth, MD*

**8:36** Refractive and Visual Outcomes of New Segmented Bifocal IOL  
Jan A. Venter, MD

*Denotes financial interest; see Financial Interest Index for full listing
8:51 Evaluation of Visual Acuity Results and Reading Performance With Salzburg Reading Desk After Implantation of Diffractive Trifocal IOL
Mary Safwat A. Attia, MD*
Coauthors: Florian T. Kretz, MD,* Ramin Khoramnia, MD,* Anna Fitting, MSc,* Katharina Linz, MD,* Gerd U. Auffarth, MD*

8:56 Visual Outcomes and Patient Satisfaction After Implantation of Multifocal Sulcus IOL
Victor A. Antunes, MD
Coauthor: Eduardo Andreghetti, MD*

8:56 Visual Outcomes and Patient Satisfaction After Implantation of Multifocal Sulcus IOL
Victor A. Antunes, MD
Coauthor: Eduardo Andreghetti, MD*

9:01 Functional Analysis of Trifocal Versus Bifocal Versus Accommodating IOLs
Carlos Palomino, MD*
Coauthors: Alfredo Castillo, MD, PhD,* Jose Angel Cristobal Bescos, MD,* David Carmona, OD,* Ana Escalada Ferrandiz, MD,* Marta Romero, MD,* Maria A. Del Buey, MD, PhD*

Discussion

CORNEA FALK, FLEK, DALK, DMEK
8:00–9:30 AM Room 151B
Moderator: Francis S. Mah, MD*
Panelists: Jacqueline Beltz, MBBS, FRANZCO Sadeer B. Hannush, MD John A. Hovanesian, MD*

8:01 Tips on DMEK Learning Curve to Make Surgical Steps Easier
Roberto Coelho, MD, PhD

8:06 Effectiveness of External Device for Bubble Management in DMEK Surgery
Joseph J. Ma, MD*
Coauthor: Alice Zhu*

8:11 Early Experience With DMEK Using Novel Folding Insertion Technique
M. Bowes Hamill, MD*
Coauthor: Sharmini A. Balakrishnan, MD*

8:16 Pupil Block After DMEK: Frequency, Associations, and Outcomes
Matthew T. Feng, MD
Coauthors: Francis W. Price Jr, MD,* Marianne O. Price, PhD*

8:21 Comparison of Visual Outcomes Using Ultrathin Versus Standard-Thickness Endothelial Grafts
Theodore Perl, MD*
Coauthors: Ruben Kuruvilla, MD,* Elizabeth Derham, MD*

Discussion

8:34 Deep Anterior Lamellar Keratoplasty for Keratoglobus: Managing Disparity of Curvature Between Donor and Recipient
Vincenzo Sarnicola, MD
Coauthors: Enrica Sarnicola, MD,* Caterina Sarnicola*

8:39 Femtosecond Laser Deep Anterior Lamellar Dissection for DALK and DSAEK
Roger F. Steinert, MD*
Coauthors: Marjan Farid, MD,* Sumit (Sam) Garg, MD,* Matthew Wade, MD*

8:44 Deep Anterior Lamellar Keratoplasty in Acanthamoeba Keratitis
Enrica Sarnicola, MD
Coauthors: Vincenzo Sarnicola, MD,* Caterina Sarnicola*

Discussion

8:57 Femtosecond Laser Zig-Zag DALK for Treatment of Corneal Stromal Pathology
Marjan Farid, MD*
Coauthors: Sumit (Sam) Garg, MD,* Roger F. Steinert, MD,* Matthew Wade, MD,* Kristin Hirabayashi*

9:02 Penetrating Keratoplasty Performed With Femtosecond Laser Zig-Zag Incision: Suture-Pattern Comparison and Suture-Out Results
Matthew Wade, MD
Coauthors: Sumit (Sam) Garg, MD,* Marjan Farid, MD,* Roger F. Steinert, MD,* Ken Y. Lin, MD, PhD*

*Denotes financial interest; see Financial Interest Index for full listing
9:07  Femto Laser-Assisted Sutureless Lamellar Keratoplasty for Anterior Stromal Pathologies Including Recurrent Anterior Corneal Dystrophies
   Mukesh Taneja, MD

9:12  Femtosecond Laser Astigmatic Keratotomy for Management of Post-Keratoplasty Astigmatism
   Ryan M. St.Clair, MD
   Coauthors: Anthony J. Aldave, MD,* Yakov Goldich, MD,* David S. Rootman, MD, FRCSC,* Sonia H. Yoo, MD,* Florence Cabot, MD,* Jason Jun, MD, MPP,* Fei Yu, PhD*

9:17  Technique for Ocular Surface Reconstruction With Keratolimbal Allograft for Recurrent Symblepharon
   Nancy Lee, MD
   Coauthor: Marjan Farid, MD*

Discussion

KERATOREFRACTIVE
Keratoconus, CXL, Rings
8:00–9:30 AM Room 154
Moderator: William B. Trattler, MD*
Panelists: Kerry K. Assil, MD*
          Chitra R. Ramamurthy, MD
          Roy S. Rubinfeld, MD*

8:01  Complete Ring Versus ICRS Femtosecond Laser-Assisted Implantation for Keratoconus
   Mohamed H. Hosny, MD, FRCS

8:06  Combined Excimer Laser Surgery and High-Energy Accelerated Crosslinking After Intracorneal Ring Implantation for Keratoconus Treatment
   Juan G. Arbelaez, MD
   Coauthor: Maria C. Arbelaez, MD*

8:11  Visual and Refractive Outcomes and Tomography Changes After Femto Laser-Assisted ICRS Implantation in Keratoconic Subjects
   Seyed Javad Hashemian, MD

8:16  Intracorneal Insertion of Biocompatible Material for Treatment of Bullous Keratopathy
   Ioannis G. Pallikaris, MD, PhD*
   Coauthors: George D. Kymionis, MD, PhD,* Argyro D. Plaka, MD, MSc,* Michael A. Grentzelos, MD,* Harilaos Ginis, PhD,* Sophia I. Panagopoulou, PhD,* Miltiadis Tsilimbaris*

Discussion

8:36  Anterior Chamber Depth and Central Corneal Thickness Changes After ICRS Insertion for Treatment of Keratoconus
   Mohamed K. Elbasty, MD

8:41  Simultaneous PRK and CXL in Patients With Keratoconus Diagnosed After Rabinowitz-McDonnell Modified Criteria
   Pilar Maria Nano, MD
   Coauthors: Hugo Daniel Nano, MD,* Hugo Diego Nano, MD*

8:46  Collagen Crosslinking and Topography-Guided Customized Ablation Treatment for Keratoconus and Post-LASIK Ectasia: Montreal Protocol
   Avi Wallerstein, MD, FRCSC
   Coauthors: Eser Adiguzel, PhD,* Tenley N. Bower, MD,* Salim Korban, BSc,* Mark Cohen, MD, FRCSC*

8:51  Topography-Guided PRK After Intrastromal Corneal Ring Segment Implantation Followed by CXL in Keratoconus Patients
   Alexander V. Doga, MD, PhD
   Coauthors: Yuri Kishkin, MD, PhD,* Svetlana Izmaylova, MD, PhD,* Ekaterina Branchevskaya, MD*

8:56  Topography-Guided Transepithelial PRK After ICRS Implantation and Corneal CXL for Keratoconus: 5-Year Results
   Efekan Coskunseven, MD

9:01  Toric Collamer Copolymer IOLs After CXL in Eyes With Keratoconus or Ectatic Corneas
   Ahmad K. Khalil, MD, PhD

Discussion

*Denotes financial interest; see Financial Interest Index for full listing
8:00–9:30 AM  Room 155

Moderator: Richard S. Hoffman, MD*
Panelist: Michael O’Keefe, MB, BAO
Vidushi Sharma, MD, FRCS
Colin S. Tan, MD*

8:01 **Benchmarks for Outcome Indicators in Pediatric Cataract Surgery**
Deborah K. VanderVeen, MD*
Coauthors: Bharti Nihalani-Gangwani, MD,* Olumuyiwa Adebona, MBChB, MPH,* William H. Dean, MD*

8:06 **Visual Acuity and Its Predictors After Surgery for Bilateral Cataracts in Children**
Rupal H. Trivedi, MD
Coauthors: Leah A. Bonaparte, MD, MS,* M. Edward Wilson, MD,* Viswanathan Ramakrishnan, PhD*

8:11 **Axial Growth Rate After Surgery and IOL Implantation in Congenital and Developmental Cataract Eyes**
Antonio C. L. Rodrigues, MD, PhD
Coauthors: Rodrigo B. Prado, MD,* Virgilio F. Silva, MD*

8:16 **Postoperative Complications in Bilateral Aphakia Versus Bilateral Pseudophakia 5 Years After Cataract Surgery: Randomized Clinical Trial**
Vaishali Vasavada, MS*
Coauthors: Abhay R. Vasavada, MS, FRCS,* Sajani K. Shah, MS,* Mamidipudi R. Praveen, MS,* Viraj Vasavada, MS,* Rupal H. Trivedi, MD*

8:26 **Prospective Comparison of the Pediatric Ophthalmologist Refraction and Vision Screener in Pseudophakic Eyes of Children**
Rupal H. Trivedi, MD
Coauthors: M. Edward Wilson, MD,* Carrie Papa,* Mahvash Husain,* Mae Millicent W. Peterseim, MD*

8:31 **Ultrasound Biomicroscopic Morphologic Assessment in Aphakic Microphthalmic Eyes Developing Elevated IOP After Congenital Cataract Surgery**
Viraj Vasavada, MS*
Coauthors: Shetal M. Raj, MS,* Mayuri Khamar, MS,* Sajani K. Shah, MS,* Vaishali Vasavada, MS,* Abhay R. Vasavada, MS, FRCS*

8:36 **Comparison of Globe Axial Length Measures in Children Using Contact Versus Immersion Ultrasound**
Bharti Nihalani-Gangwani, MD
Coauthor: Deborah K. VanderVeen, MD*

8:46 **Outcome of Iris-Claw Anterior Chamber Versus Scleral-Fixated Posterior Chamber IOL for Management of Ectopia Lentis**
Adel E. El-Layeh, MD

8:51 **Evaluation of Visual Outcome, Efficacy, and Rotational Stability of Toric IOL Implantation in Pediatric Cataract Surgery**
Suresh K. Pandey, MD
Coauthor: Vidushi Sharma, MD, FRCS*

8:56 **Long-Term Longitudinal Assessment of Postoperative Outcomes After Congenital Cataract Surgery in Children With Congenital Rubella Syndrome**
Samarendra Srivastava, DNB*
Coauthors: Sajani K. Shah, MS,* Mamidipudi R. Praveen, MS,* Vaishali Vasavada, MS,* Abhay R. Vasavada, MS, FRCS,* Roberta Carelli, MD*

9:01 **Unique Foveal Contour Changes in Series of Children With Hyperopia**
Sibel Oto, MD
Coauthors: Sezin A. Bayar, MD,* Begum Bulam, MD,* Gursel Yilmaz, MD,* Imren Akkoyun, MD,* Mustafa Agah Tekindal, PhD*

*Denotes financial interest; see Financial Interest Index for full listing
9:11 Femtosecond Laser–Assisted Cataract Surgery in Pediatric Marfan Syndrome With Ectopia Lentis
Tim Schultz, MD
Coauthor: H. Burkhard Dick, MD*

9:16 Femtosecond Laser–Assisted Cataract Surgery in Infants
H. Burkhard Dick, MD
Coauthor: Tim Schultz, MD*

Discussion

THE SUNDAY SUMMIT
10:00 AM–12:00 PM  Grand Ballroom

Welcome
Edward J. Holland, MD*
Chair, ASCRS Program Committee

10:00–11:00 AM

ASCRS Lecture on Science and Medicine
Creation: The History and Future of Life, DNA, and Genes
Adam Rutherford, PhD

Dr. Rutherford, who holds a PhD from University College London and whose background is in the genetics of the eye development and disease, is a well-known British science writer specializing in the emerging field of evolution, genetics, and synthetic human biology. His most recent book, Creation, has earned praise from the Financial Times, the Guardian, the Telegraph, the Observer, the Wall Street Journal, the Los Angeles Times and Smithsonian Magazine.

11:00 AM–12:00 PM

60 Minutes: Future Directions in Anterior Segment Surgery
Moderator: Edward J. Holland, MD*
Panelists: Eric D. Donnenfeld, MD*
Bonnie An Henderson, MD*
Richard A. Lewis, MD*

“60 Minutes” is an exciting new general session that features world experts in anterior segment surgery. They will discuss the state of the art of each major subspecialty and give their predictions on future trends.

Symposium:
What’s New in the Management of Corneal Ectasias
1:00–2:30 PM  Room 205ABC

Sponsored by the Cornea Society
Moderators: W. Barry Lee, MD*
Christopher J. Rapuano, MD*

1:00  Lens Implantation in Corneal Ectasia
Thomas M. Harvey, MD*

1:10  Topographic Diagnosis of Corneal Ectasia
Michael W. Belin, MD*

1:20  Update of Contact Lenses for Treatment of Corneal Ectasia
Deborah S. Jacobs, MD

1:30  Ring Segments in Treatment of Corneal Ectasia
Yaron S. Rabinowitz, MD

Discussion

Treatment Controversies

1:50  Corneal Crosslinking: Epithelial-on Technique is Better
Peter S. Hersh, MD*

*Denotes financial interest; see Financial Interest Index for full listing
2:00  Corneal Crosslinking: Epithelial-off Technique is Better
   Penny Asbell, MD*

2:10  DALK for the Surgical Treatment of Keratoconus
   Clara C. Chan, MD, FRCSC*

Discussion

Symposium: The Integrated Eyecare Model: Should I or Shouldn’t I?

1:00–2:30 pm  Room 204AB

Jointly Sponsored by ASOA and ASCRS

Moderator:  Sondra Hoffman, COE, CPC, CMPE
Panelists:  Hayley G. Boiling, MBA
           Derek N. Cunningham, OD, FAAO*
           Thomas M. Harvey, MD*
           D. Brian Kim, MD
           Laurie Oliver, COE
           Parag Parekh, MD*
           Corinne Z. Wohl, MHSA, COE

This joint symposium will feature a panel comprised of physicians, administrators, and an OD with subject matter addressing all perspectives. Presentations will focus on deciding if and when a practice should consider adding ODs. What factors need to be weighed? How does a practice go about adding an OD? What are the expectations of ODs in a practice? What other options exist to generate non-surgical practice revenue?

INTRAOCULAR SURGERY

Phaco Techniques and Technology

1:00–2:30 pm  Room 151A

Moderator:  Parag A. Majmudar, MD*
Panelists:  Luther L. Fry, MD*
           A. Tim Johnson, MD, PhD
           Cyres K. Mehta, MD, MCH

1:01  Novel Balanced Phacotip for Micro coaxial Torsional Phaco
   Khiun F. Tjia, MD*

1:06  Effect of Phaco Tip Diameter on Efficiency and Chatter
   Mohammed A. Farukhi
   Coauthors:  Brian C. Stagg, MD,*
   Cecinio Ronquillo Jr, PhD,* Kevin Kirk,*
   Jason D. Jensen,* Isha Gupta,*
   William R. Barlow, MD,* Jeff H. Pettey, MD,*
   Randall J. Olson, MD*

1:11  Bent Versus Straight Tips in Micropulsed Longitudinal Phacoemulsification
   Brian C. Stagg, MD
   Coauthors:  Mohammed A. Farukhi,*
   Randall J. Olson, MD,* Kevin Kirk,* Jason D. Jensen,*
   Isha Gupta,* Cecinio Ronquillo Jr, PhD,*
   William R. Barlow, MD,* Jeff H. Pettey, MD,*
   Brian E. Zaugg, MD*

Discussion

1:24  Technique for Capsular Bag Stabilization in Cases of Zonular Insufficiency Using High-Viscosity OVDs
   Kenneth J. Rosenthal, MD*
   Coauthor: Nandini Venkateswaran, BA*

1:29  Comparison of Ophthalmic Viscosurgical Device and Balanced Salt Solution to Achieve Pressurization for Intraoperative Aberrometry
   Sumit (Sam) Garg, MD*
   Coauthors:  Roger F. Steinert, MD,*
   Marjan Farid, MD,* Matthew Wade, MD,*
   Jeffrey Liu, MD,* Nancy Lee, MD*

1:34  Analysis of a Parameter to Center IOL After Circular Capsulotomy Centered on Cornea or Dilating Pupil
   Sung A Lim, MD
   Coauthors:  Choun-Ki Joo, MD,* Yoon-mi Sung, MD,*
   Ga-young Yoo, MD*

Discussion

1:47  Cataract Surgery: Incidence of Posterior Vitreous Detachment on Quality of Vision and Reading Speed
   Nicola Hauranieh, MD
   Coauthor: Pietro Giardini, MD*

*Denotes financial interest; see Financial Interest Index for full listing
1:52 Comparative Study of Stromal Hydration in Clear Corneal Phaco Surgery: Hydration of Main and Side Ports Versus Hydration of Side Ports Alone  
Sangeeta Abrol, MD  
Coauthor: Neeraj Varma, MD*

Discussion

2:05 Comparative Thermal Characterization of Phacoemulsification Probes Operated in Elliptical, Torsional, and Longitudinal Ultrasound Modalities  
Jaime Zacharias, MD*

2:10 Computational Fluid Dynamics Simulation of Human Eye Anterior Chamber Fluidics During Regular and Microcoaxial Phacoemulsification  
Sivagnanam Subbiah, BE*  
Coauthor: Arun Kumar Galli Lakshmi Narayanan, FRCS*

2:15 Five-Year Clinical Outcome Data Using Dual-Pump System in Different Phaco Modalities  
Fabrizio I. Camesasca, MD*  
Coauthor: Matteo Piovella, MD*

Discussion

1:11 Marking the Toric IOL Axis: Comparative Study of Manual and Femtosecond Laser Method  
Karime Pérez Bailón, MD  
Coauthors: Georgina Givaudan-Pedroza, MD,*  
Susana M. Peniche, MD,* Lourdes Fernandez*

1:16 Use of Small Femtosecond Laser-Created Intrastromal Corneal Marks as Visual Aid in Rotational Orientation of Toric IOLs  
William W. Culbertson IV, MD*  
Coauthor: Sonia H. Yoo, MD*

1:21 Digital 3-D Visualization and Guidance in Cataract Surgery  
Douglas D. Koch, MD*  
Coauthors: Li Wang, MD, PhD,*  
Bruna V. Ventura, MD,* Mitchell P. Weikert, MD*

Discussion

1:36 Three-Month Clinical Results and Rotation Stability of New Single-Piece Toric Hydrophobic Acrylic IOL  
Barbara Kusa, MD  
Coauthor: Matteo Piovella, MD*

1:41 Rotational Stability of 2 IOL Platforms  
Gabor B. Scharioth, MD, PhD*

1:46 Aspheric Toric IOL Versus Limbal Relaxing Incisions in Eyes With Cataracts and Corneal Astigmatism: Randomized Study  
Douglas Lam, MD*

Discussion

2:01 Efficacy of Monofocal Toric IOL Implantation in Cataract Surgery  
Carlos Martinez-Franco, MD  
Coauthors: Ana A. Lorenzo, MD,*  
Santiago García Arroyo, MD,*  
Eduardo Amézquita García, MD,*  
Jorge Morales-Martinez, MD*

*Denotes financial interest; see Financial Interest Index for full listing
2:06 Multicenter Study of Safety and Efficacy of Toric IOL and Wound Closure Method After Cataract Surgery
Stephen S. Lane, MD

2:11 Safety and Efficacy of Novel Presbyopia-Correcting Toric Silicone Posterior Chamber IOL
Jay S. Pepose, MD, PhD*

Discussion

INTRAOCULAR SURGERY
Femtosecond Laser

1:00–2:30 PM
Room 151B
Moderator: Michael J. Taravella, MD*
Panelists: Mike P. Holzer, MD*
Jeremy Z. Kieval, MD*
Stephen Slade, MD*

1:01 Femtosecond Laser–Assisted Cataract Surgery in Narrow-Angle Glaucoma
Johnny L. Gayton, MD*
Coauthor: Riley Sanders, BS*

1:06 Results of Femtosecond Laser–Assisted Cataract Surgery in Mature White Cataracts
Sudhank Bharti, MS

1:11 Sequential Femtosecond Laser–Assisted Cataract Surgery in Marfan Syndrome
Jonathan D. Solomon, MD*

1:16 Bilateral Femtosecond Laser–Assisted Cataract Surgery in Patient With Nystagmus and Astigmatism
Luca Gualdi, MD

1:21 Cushioning Posterior Polar Cataract: Femtosecond-Laser-Based Approach
Samaresh Srivastava, DNB*
Coauthors: Abhay R. Vasavada, MS, FRCS,* Shetal M. Raj, MS,* Viraj Vasavada, MS,* Vaishali Vasavada, MS*

Discussion

1:36 Incidence of Free-Floating Capsulotomy and Complications Associated With Use of Novel Femtosecond Laser System for Cataract Surgery
Y. Ralph Chu, MD*

1:41 Electron Microscopy of Laser Capsulotomy Edge: Inter-Platform Comparison
Chandra Bala, PhD, MBBS(Hons)

1:46 Intraoperative Measurement of Effective Lens Position During Femtosecond Laser-Assisted Cataract Surgery
Marta Ibarz, MD
Coauthors: Pedro Tana, MD,* Enrique Artiaga, MD,* Jose Muñoz, MD*

Discussion

2:01 Comparative Analysis of Femtosecond Laser–Assisted Phacoemulsification Using 2 Femtosecond Laser Platforms
Robert P. Rivera, MD*
Coauthor: Phillip C. Hoopes Jr, MD*

2:06 Correlation of Slitlamp-Based Cataract Grading, Femtosecond Laser Imaging System-Based Cataract Grading, and Cumulative Dissipated Energy in Eyes Having Laser-Assisted Cataract Surgery
Harvey S. Uy, MD
Coauthor: Ajay Pillai, MD*

2:11 Assessment of the Need for Femtolaser in Cataract Surgery
Arun C. Gulani, MD*

Discussion

*Denotes financial interest; see Financial Interest Index for full listing
**CORNEA**

**Dry Eye Management**

1:00–2:30 PM  
Room 150

Moderator: Anthony J. Aldave, MD*

Panelists: Tarek Abdel Wahab, MD  
Marjan Farid, MD*  
Keith Walter, MD*

1:01  
**Cornea Results from the ASCRS Clinical Survey 2013**  
Christopher E. Starr, MD*

1:06  
**Association of Epitheliopathy of Upper and Lower Eyelid Marginal Conjunctiva With Meibomian Gland Dysfunction and Symptoms of Dry-Eye Disease**  
Jack V. Greiner, DO, PhD*

1:11  
**Outcomes of Intense Pulsed-Light Therapy for Treatment of Evaporative Dry-Eye Disease**  
Preeya K. Gupta, MD*

Coauthors: Garji K. Vora, MD,*  
Sandra S. Stinnett, PhD*

1:16  
**Thermal Pulsation Treatment for Meibomian Gland Dysfunction**  
Adi Einan-Lifshitz, MD

Coauthors: David Zadok, MD,* Isaac Avni, MD,*  
Morris E. Hartstein, MD*

1:21  
**Thermal Pulsation Treatment for Meibomian Gland Dysfunction and Dry-Eye Syndrome: 1-Year Experience and Results**  
Antonio Mocellin, MD

Coauthor: Matteo Piovella, MD*

1:26  
**Dacryoscintigraphy in Measurement of Tear Clearance in Patients With Meibomian Gland Dysfunction**  
Adam Kemeny-Beke, MD, PhD

**Discussion**

1:43  
**Novel Therapy for Patients With Moderate to Severe Dry-Eye Disease: Topical IL-1 Receptor Blocker**  
Michael H. Goldstein, MD*

Coauthors: Jennifer L. Agahigian,*  
Gregory Zarbis-Papastoisits, PhD,* Kathryn Golden,*  
Joseph T. Kovalchin, PhD,* Eric Furfine, PhD*

1:48  
**Correlation of Clinical Severity of Dry-Eye Disease With Corneal Immune Cell Alterations Detected by in Vivo Confocal Microscopy**  
Shruti Aggarwal, MD

Coauthors: Ahmad Kheirkhah,*  
Bernardo M. Cavalcanti, MD,* Pedram Hamrah, MD*

1:53  
**Dye-Enhanced Argon Laser Punctum Stenosis to Treat Dry Eyes**  
Mohammad Idrees, FRCS Edin

1:58  
**Dry-Eye Evaluation in Unilateral Disciform Herpetic Keratitis and Neurotrophic Ulcer**  
Amin Rafatnejhad Jr, MD

Coauthors: Mahmoud Jabbarvand, MD,*  
Hesam Hashemian, MD,* Mehdi Khodaparast, MD*

2:03  
**Prevalence of Dry-Eye Symptoms Versus Dry-Eye Disease in General and Refractive Surgery Populations**  
Marguerite B. McDonald, MD*

2:08  
**Lifitegrast Ophthalmic Solution 5.0% for Treatment of Dry-Eye Disease: Results of a Phase 3 Randomized Masked Controlled Trial**  
Joseph Tauber, MD*

Coauthors: Charles P. Semba, MD,*  
Aparna Raychaudhuri, PhD*

**Discussion**

*Denotes financial interest; see Financial Interest Index for full listing
KERATOREFRACTIVE
Presbyopia—Correcting

1:00–2:30 PM  Room 154
Moderator: John F. Doane, MD*
Panelists: Enrique Barragan, MD*
            Daniel B. Goldberg, MD*
            Karl G. Stonecipher, MD*

1:01 Assessment of Small-Aperture Inlay Clinical Outcomes Using Videokeratography and Corneal OCT: 2-Year Results
Francesco Carones, MD*

1:06 Effect of Age and Refraction in Presbyopic Patients Implanted With Transparent Shape-Changing Corneal Inlay
Beatrice Cochener, MD, PhD*

Discussion

1:19 Initial Experience With Corneal Inlays With Femto Pocket Implantation to Correct Presbyopia
Tejas D. Shah, MD

1:24 International Multi-Center Clinical Trial for Correcting Emmetropic Presbyopia With Corneal Inlay: 36-Month Results
John A. Vukich, MD*

1:29 Presbyopia Treatment Using New Hydrogel Corneal Inlay With Concurrent LASIK: Commercial Experience in High-Volume LASIK Clinics in Japan
Yasuda Kazuomi, MD*

1:34 Two Target Locations for Corneal Inlay Implantation Combined With LASIK
Christine Carole C. Corpuz, MD
Coauthors: Satoshi Yukawa, MD,* Toru Nakamura, MD,* Tukezban Huseynova, MD,* Minoru Tomita, MD, PhD*

Discussion

1:47 Study of Safety and Efficacy of Refractive Corneal Inlay in Patients With Cataract Surgery: Preliminary Results
Ioannis G. Pallikaris, MD, PhD*
Coauthors: Nela R. Stojanovic, MD, MSc,* Sophia I. Panagopoulou, PhD*

1:52 Small-Aperture Corneal Inlay Treatment for Post-LASIK Presbyopia: 2-Year Outcomes
Minoru Tomita, MD, PhD*
Coauthors: Toru Nakamura, MD, * Shu Ozaki, MD, * Satoshi Yukawa, MD*

1:57 Single-Center Experience With Hydrogel Corneal Inlay for Correction of Presbyopia in Emmetropic Eyes
Paul J. Dougherty, MD*

2:02 Three-Dimensional Modeling of Glucose and Oxygen Transport in Cornea With Hydrogel Intrastral Inlay
Peter M. Pinsky, PhD*

2:07 Outcomes After Varifocal LASIK for Hyperopic Presbyopia
Mohammed S. Rashid, MBChB, FRCOphth
Coauthors: Marcela Espinosa, MD, * Sheraz M. Daya, MD, FACS*

2:12 Photorefractive Keratectomy Over Opaque Intracorneal Inlay
Kevin L. Waltz, OD, MD*
Coauthors: Nathan S. Smith, MD, * Brenda Wahl, OD*

2:17 Preoperative Versus Postoperative Ocular Wavefront Changes After Scleral Implant Surgery for Treatment of Presbyopia
Lawrence W. Baitch, PhD*
Coauthors: David J. Schanzlin, MD,* D. Robert Iskander, PhD, DSc*

Discussion

*Denotes financial interest; see Financial Interest Index for full listing
1:00–2:30 PM  
**Room 155**

Moderator: Bradford J. Shingleton, MD*
Panelists: Robert J. Noecker, MD, MBA*  
Steven R. Sarkisian Jr, MD*  
Steven D. Vold, MD*

1:01  **Evaluation of Trabecular Micro-Bypass Stent With Phacoemulsification in Patients With Open-Angle Glaucoma and Cataract**
John P. Berdahl, MD*
Coauthors: Justin A. Schweitzer, OD,*  
Tanner J. Ferguson*

1:06  **Long-Term Results of Supraciliary Micro-Stent Implantation in Patients Refractory to Topical Glaucoma Therapy**
Quang H. Nguyen, MD*
Coauthors: Tsontcho Ianchulev, MD, MPH,*  
Helmut R. Hoeh, MD,*  
Magda Rau, MD,*  
Swaantje Grisanti, MD, PhD*

1:11  **Phakic or Pseudophakic OAG Subjects Implanted With 2 Trabecular Bypass Stents: 18-month Findings**
Thomas W. Samuelson, MD*

**Discussion**

1:24  **Open-Angle Glaucoma in Phakic or Pseudophakic OAG Subjects Treated With Ab Interno Suprachoroidal Stent and Postoperative Travoprost**
Gerd U. Auffarth, MD*
Coauthor: Florian T. Kretz, MD*

1:29  **Phaco-Trabecular Micro-Bypass Stent in Management of Patients With Advanced Open-Angle Glaucoma**
Sourabh Arora, MD
Coauthors: Chris J. Rudnisky, MD,*  
Khaliq Kurji, MD,*  
Michael W. Dorey, MD*

1:34  **Ab Interno Approach to Subconjunctival Space: Materials and Biocompatibility of Minimally Invasive Collagen Glaucoma Implant**
Richard A. Lewis, MD*

**Discussion**

1:47  **Trabeculectomy With Collagen Matrix Implant in Patients With Failed Glaucoma Surgery**
Mohamed A. Mahdy, MD, PhD

1:52  **Single-Stab Trabeculectomy: New Technique for Glaucoma Filtering Surgery for Minimizing Scar Induction and Bleb Failure**
Kala Satish, MD
Coauthors: Soosan Jacob, FRCS, MS,*  
Amar Agarwal, FRCS*

1:57  **Minimally Invasive Drainage Implant: 3-Year Follow-up**
Juan F. Batlle, MD*
Coauthor: Paul F. Palmberg, MD, PhD*

2:02  **Deep Sclerectomy With Mitomycin C and With or Without Hyaluronic Acid Implant: Comparative Study**
Pierre Yves J. Santiago, MD*
Coauthor: Mihaela Petrescu, MD*

2:07  **Update on Use of Low-Power Ultrasound Treatment for Glaucoma**
Donald Schwartz, MD*

2:12  **Early Results of Microinvasive Ab Interno Gelatin Stent With Adjunctive Mitomycin C in Treatment of Open-Angle Glaucoma**
Arsham Sheybani, MD
Coauthor: Ike K. Ahmed, MD*

**Discussion**

*Denotes financial interest; see Financial Interest Index for full listing
Symposium: Pardon the Ophthalmology: Hot Topics in Cornea and External Disease

3:00–4:30 PM  Grand Ballroom

Sponsored by the ASCRS Cornea Clinical Committee
Moderators:  Terry Kim, MD*  
Edward J. Holland, MD*
Panelists:  Richard S. Davidson, MD*  
John A. Hovanesian, MD*  
Thomas John, MD*  
A. John Kanellopoulos, MD*  
Francis S. Mah, MD*  
Neda Shamie, MD*  
Christopher E. Starr, MD*  
David T. Vroman, MD*

Common and advanced corneal cases will be presented to the panel and audience for lively and interactive discussion with regard to management and treatment.

Symposium: Cataract Dilemmas

3:00–4:30 PM  Room 205ABC

Sponsored by the ASCRS Cataract Clinical Committee
Moderator:  Rosa Braga-Mele, MD, FRCSC*
Panelists:  Steve A. Arshinoff, MD, FRCSC*  
David F. Chang, MD*  
Steven Dewey, MD*  
Gary Foster, MD*  
Warren E. Hill, MD*  
Richard S. Hoffman, MD*  
Nick Mamalis, MD*  
Donald N. Serafano, MD*  
Neal Shorstein, MD  
Kent Stiverson, MD  
Audrey R. Talley Rostov, MD*  
Abhay R. Vasavada, MS, FRCS*  
Sonia H. Yoo, MD*

3:00 Welcome  
Rosa M. Braga-Mele, MD*

3:02 Bilateral Simultaneous Cataract Surgery: International Perspective  
Steve A. Arshinoff, MD, FRCSC*

3:12 Bilateral Simultaneous Cataract Surgery: U.S. Perspective  
Kent Stiverson, MD

3:22 Discussion

3:31 Anterior Limbal Vitrectomy Versus Pars Plana Vitrectomy  
Abhay Vasavada, MS, FRCS*

3:41 Discussion

3:46 Intracameral Antibiotics: Yes or No?  
Neal Shorstein, MD

3:57 Discussion

4:01 ACIOL Versus Sutured or Glued PCIOL  
Richard S. Hoffman, MD*

4:12 Discussion

4:16 Assessing Corneal Astigmatism: What’s Important and What’s the Best Technology?  
Elizabeth Yeu, MD*

4:27 Discussion and Closing Remarks

Symposium: Video-Symposium: Challenging Cases and Complication Management

3:00–4:30 PM  Room 204AB

Sponsored by BRASCRS (Brazilian Society of Cataract and Refractive Surgery)
Moderators:  Armando Crema, MD*  
Renato Ambrósio Jr, MD, PhD*
Panelists:  Eric D. Donnenfeld, MD*  
I. Howard Fine, MD  
José L. Güell, MD*  
Robert H. Osher, MD*

3:00 ICL Vaulting  
José Beníz, MD

*Denotes financial interest; see Financial Interest Index for full listing
**Sunday, April 27**

**ASCRS Program—Scientific Papers and Symposia**

**3:10** Late Cortical Liquefaction  
Marco A. Rey de Faria, MD

**3:20** Duet for High Hyperopia  
Rogério Horta, MD

**3:30** Scleral Fixation IOL Exchange  
Mário Carvalho, MD

**3:40** Lens Holding the Bag  
Carlos Figueiredo, MD

**3:50** Post LASIK Ectasia  
Bernardo K. Moscovici, MD

**4:00** Femtocataract in Marfan Syndrome  
Armando Crema, MD*

**4:10** Think Fast my Friend  
Marcony R. Santhiago, MD, PhD

**4:20** Secondary Glued IOL  
Virgilio Centurión, MD*

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**INTRAOCULAR SURGERY**  
**Challenging Cases**

**3:00–4:30 pm**  
Room 151A

**3:01** Capsulorhexis in Intumescent Cataract With High Intralenticular Pressure: Comparison of 2 Techniques  
Narayan Bardoloi, MBBS, DO

**3:06** Cataract Surgery in Patients With Congenital Iris Coloboma  
Boris E. Malyugin, MD, PhD*

**3:11** Microincisional Cataract Surgery Advantage in Intraoperative Floppy-Iris Syndrome Cases  
Mitchell A. Jackson, MD*

**3:26** Outcomes of Posterior Chamber IOL Fixation in Ectopia Lentis  
Joann J. Kang, MD  
Coauthors: David C. Ritterband, MD,*  
Alice Hong, MD,* Elaine I. Wu, MD,*  
Richard S. Koplin, MD,* John A. Seedor, MD*

**3:31** Clear Lens Phacoemulsification in Patients With Alport Syndrome: Electron Microscopic Analysis of Anterior Lens Capsule  
Onur Gokmen, MD  
Coauthors: Sezin A. Bayar, MD,* Gulten Karabay, MD,*  
Sibel Oto, MD,* Ahmet Akman, MD,*  
Gursel Yilmaz, MD*

**3:36** Anterior Chamber Endoillumination-Assisted Phacoemulsification in Eyes With Coexisting Cataract and Corneal Opacities  
Ruba Alobaidy, MBChB  
Coauthors: Jia Y. Ng, MBChB, MAcadMed,*  
Sathish Srinivasan, FRCSEd, FRCOphth*

**Discussion**

**3:51** Surgical Strategies in Management of Capsule Rupture at Cataract Surgery  
Dieter W. Klaas, MD

**3:56** Retrospective Study of Visual Outcomes and Complications After Sutureless, Flapless, and Glueless Intracapsular Fixation of Posterior Chamber IOL in Cases With Inadequate Capsule Support  
Prabhu Vijayaraghavan, MS, FICO  
Coauthors: Kalpana Narendran, DNB,*  
Saravanan Verappan, DNB*

**4:01** Capsulorhexis Phimosis With Anterior Flexing of Accommodating IOL: Case Report and Laboratory Analyses  
Rachel Epstein, MD  
Coauthors: Erica T. Liu, MD,* Liliana Werner, MD, PhD,* Thomas Kohnen, MD, PhD,* Nick Mamalis, MD,*  
Oliver K. Klaproth*

**4:06** Cataract Surgery After Presbyopic Implant  
Jod S. Mehta, MD, FRCSEd*  
Coauthor: Marcus Ang, MBBS, MMEd*

**Discussion**

*Denotes financial interest; see Financial Interest Index for full listing*
INTRAOCULAR SURGERY
Monofocal IOLs

3:00–4:30 PM
Room 150

Moderator: Kevin M. Miller, MD*
Panelists: Scott M. MacRae, MD* Carlos Palomino, MD* Jonathan H. Talamo, MD*

3:01 Prospective Evaluation of New Hydrophobic Acrylic IOL
Peter J. Cornell, MD*

3:06 Safety and Visual Outcomes of Implantation of Hydrophobic Acrylic IOL in Cataract Patients
David A. Goldman, MD*

3:11 Visual and Safety Outcomes After Implantation of Single-Piece Hydrophobic Acrylic IOL During Cataract Surgery
James Khodabakhsh, MD*

3:16 Assessment of Visual Acuity, Posterior Capsule Opacification, and Glistening at 12 Months With Single-Piece Hydrophobic Acrylic IOL
Toni Salvador, MD
Coauthor: Jorge Gallardo Paredes, MD*

3:21 Biocompatibility of Surface-Modified Hydrophobic Acrylic IOLs
Guiqin Wang, MD

3:31 Visual Performance With New IOL That Simultaneously Corrects Spherical Aberration and Longitudinal Chromatic Aberration
Patricia A. Piers, PhD*
Coauthors: Henk Weeber, PhD,* Roland Pohl, PhD,* Ulrich Mester, MD, PhD*

3:36 Functional Results After Implantation of Aspheric Aberration-Neutral IOL
Ramin Khoramnia, MD*
Coauthors: Anna Fitting, MSc,* Bettina C. Thomas, MD,* Gerd U. Auffarth, MD,* Mike P. Holzer, MD*

3:41 Outcomes of Phacoemulsification and Implantation of High Refractive Power IOL in Nanophthalmos
Harmanjit Singh, MD
Coauthor: Ike K. Ahmed, MD*

3:51 Extended Depth of Focus IOL and Modest Monovision
Graham D. Barrett, FRANZCO*
Coauthor: Yokrat Ton, MD*

3:56 Effect of Higher-Order Aberrations on Depth of Focus in Pseudophakic Eyes With Aberration-Free Monofocal IOL
Jin Hyoung Park, MD
Coauthors: Myoung Joon Kim, MD,* Jong Hoon Park, MD,* In Seok Song, MD,* Jae Yong Kim, MD, PhD,* Hungwon Tchah, MD*

4:01 Managing Irregular Corneal Astigmatism and Pseudophakic Presbyopia With Novel Small-Aperture Intraocular Implant
Claudio C. Trindade, MD*

4:11 Novel Technique to Win Surgical Aphakia: Retro Fixated Iris-Claw IOL
Riddhi Arya, MS
Coauthor: Devaprasad Kar, MS*

4:16 Secondary Ciliary-Sulcus Implantation of Foldable IOL to Correct Pseudophakic Ametropia
Alahmady H. Elsamman, MD

4:21 Evaluation of Operational and Economic Efficiencies With New Preloaded IOL Delivery System
David R. Hardten, MD*
Coauthors: Guillermo Rocha, MD,* Serge Zaluski, MD*

4:26 Innovative Hydrophobic Acrylic IOL Delivery System
Khiun F. Tjia, MD*

Discussion

*Denotes financial interest; see Financial Interest Index for full listing
INTRAOCULAR SURGERY
Medications

3:00–4:30 PM Room 152
Moderator: Paul N. Arnold, MD
Panelists: Tat-Keong Chan, MD*
Priya S. Narang, MS
Harvey S. Uy, MD

3:03 2014 Howard Lieberman Memorial Paper
Clinical Outcomes of Difluprednate 0.05% for
Treatment of Ocular Inflammation Associated
With Cataract Surgery in Normal, Ocular
Hypertensive, Glaucoma Suspect, and Primary
Open-Angle Glaucoma Patients
Supported by a grant from the ASCRS Foundation
Melissa M. Toyos, MD*

3:08 Multi-Center Evaluation of Safety
and Efficacy of Sustained-Release
Dexamethasone After Cataract Surgery
Michael J. Endl, MD*
Coauthors: Jeffrey H. Levenson, MD,*
Thomas R. Walters, MD,* Parag A. Majmudar, MD*

3:13 Prospective Interventional Pilot Study
Using Bromfenac 0.07% After Cataract
Surgery for Prevention of Macular Thickening
Ivayla I. Geneva, PhD
Coauthor: Bonnie Ann Henderson, MD*

3:23 Nuances of Intracameral Use of Triamcinolone
After Uncomplicated Cataract Surgery
Debashis Dutta, MS

3:28 Effect of Perioperative Drop Regimen
on CME After Cataract Surgery
Keith Walter, MD*

3:33 Intravitreal Placement of Antibiotic/Steroid
as Substitute for Postoperative Drops
After Cataract Surgery
M. Stewart Galloway, MD

3:38 Intraocular Moxifloxacin/Dexamethasone
Combination in Phacoemulsification Surgery:
2-Year Results
Fernando Aguilera-Zarate, MD
Coauthor: Luis Escaf, MD*

Discussion

3:48 Effect of Various Ocular Hypotensive Drugs
on 3- and 24-Hour Post-Cataract Surgery IOP
Luther L. Fry, MD*
Coauthors: Eric L. Fry, MD, * E. Randy Craven, MD*

3:53 Two Phase 3 Clinical Trials of Preservative-
Free/Bisulfite-Free Phenylephrine-Ketoralac
Agent Added to Irrigation Fluid During IOL
Replacement Surgery
Thomas R. Walters, MD*
Coauthors: Mitchell A. Jackson, MD,*
Alan S. Crandall, MD, * James C. Loden, MD*

Discussion

4:03 Randomized Controlled Trial of Efficacy
of Povidone-Iodine in Reducing Bacterial
Load Prior to Surgery After Premedication
With Gel Versus Drops
Joshua C. Teichman, MD, MPH
Coauthors: Michael Ying Kit Mak, BHSc,*
Nina Ahuja, MD, FRCSC,* Dalia M. Eino, MD,*
Varun Chaudhary, MD, FRCSC*

4:08 Effectiveness of Preoperative Antibiotic Use
Andrzej E. Grzybowski, MD, PhD*
Coauthor: George H. Beiko, BM BCh, FRCSC*

4:13 Perspective on 2013 Cochrane Review
of Prophylactic Intracameral Antibiotics
in Cataract Surgery
Steve A. Arshinoff, MD, FRCSC*

Discussion

*Denotes financial interest; see Financial Interest Index for full listing
### CORNEA

**Rings and Crosslinking**

3:00–4:30 PM  
**Room 151B**

**Moderator:** George O. Waring IV, MD, FACS*

**Panelists:**
- Michael H. Goldstein, MD*
- Maria A. Henriquez, MD*
- Ken Y. Lin, MD, PhD*

#### 3:01 Comparative Study of 2 Intrastromal Corneal Ring Segment Models in Keratoconus Management Using Femtosecond Laser Technology

Ahmed E. Kotb, MD, FRCSEd

#### 3:06 360-Degree Intrastromal Corneal Ring for Advanced Keratoconus

Luis Izquierdo Jr, MD

Coauthor: Maria A. Henriques, MD*

#### 3:11 Changes in Corneal and Refractive Astigmatism Using Intracorneal Ring Segments of 90 and 130 Degrees in Keratoconus

Maria X. Nunez, MD*

Coauthor: Claudia Blanco, MD*

#### 3:16 Advanced Cases of Ectasia and Use of ICRS Implantation

Ahmed AlSaadi, MD, FRCSCE

Coauthor: Amna H. AlMaazmi, MD*

#### 3:21 Intracorneal Ring Segment of 210-Degrees in Post-LASIK Ectasia and Decentered Keratoconus: Follow-up of Clinical and Biomechanical Changes

Claudia Blanco, MD

Coauthor: Maria X. Nunez, MD*

#### 3:31 Evaluation of Epi-Crosslinking in Removing Epithelium in Mild Keratoconus

Rafael A. Mateo Camaran, MD

Coauthor: L. Felipe Vejarano, MD*

#### 3:36 Comparison of 2 Riboflavin Formulations in Patients Having Epithelial-On Corneal CXL for Keratoconus

William B. Trattler, MD*

Coauthors: Roy S. Rubinfeld, MD,*
Rosane Correa, MD,* Charles J. Kaiser, MD,*
Carlos Buznego, MD*

#### 3:41 Evaluation of 2 Riboflavin Dosing Regimens for Corneal CXL in Eyes With Progressive Keratoconus or Ectasia

Adebukola O. Adelaboy, MD

Coauthors: Marianne O. Price, PhD,*
Francis W. Price Jr, MD*

#### 3:46 Corneal Collagen Crosslinking Oxygen Dependency

Arthur Hammer, MD*

Coauthors: Olivier Richoz, MD,*
Samuel Arba Mosquera, PhD,* Zisis Gatzioufas, MD,*
Farhad Hafezi, MD, PhD*

#### 3:56 New 355-Degree Intracorneal Ring and Simultaneous Intrastromal Crosslinking for Treatment of Nipple-Type Keratoconus

Francisco Sánchez León, MD*

Coauthor: Sandra Sanoja Sarabia, MD*

#### 4:01 New 355-Degree Intracorneal Ring Segment for Management of Keratoconus: 1-Year Follow-up

Tarek Abdel Wahab, MD

#### 4:06 Topography-Guided PRK Plus Simultaneous Riboflavin–UVA CXL After Intrastromal Corneal Ring Segment Implantation for Progressive Keratoconus

Dominique Pietrini, MD

Coauthor: Tony Guedj, OD, ORTH*

#### 4:11 Combined Intrastromal Corneal Ring Implantation and Corneal CXL in Patients With Progressive Keratoconus: 30-Month Outcomes

Santiago Onnis, MD

Coauthors: Roger Onnis, MD,* Sebastian Onnis, MD,*
Gabriela F. Bottanelli, MD,* Elodia L. Ayala, MD*

*Denotes financial interest; see Financial Interest Index for full listing
3:16  Stereopsis After Photorefractive Keratectomy  
Pasha Anvari, MD  
Coauthors: Mahmoud Jabbarvand, MD,  
Hesam Hashemian, MD, Mehdi Khodaparast, MD  

Discussion

3:29  Refinement of Pre-Set Corneal Epithelial Thickness and Stromal Ablation Rate in One-Step Transepithelial Ablations  
Michael Goggin, FRCSI(Ophth), FR ANZCO  
Coauthor: Vikija Andersons, MD

3:34 Transepithelial Photorefractive Keratectomy Versus Conventional Alcohol-Assisted PRK in Correction of Mild and Moderate Myopia  
Waleed A. Ghobashy, MD, PhD  
Coauthors: Mohamed E. Shahin, MD, PhD,  
Karem Kolkailah, MD

3:39  Analysis of Transepithelial PRK Efficiency for Middle-Degree Myopia Correction  
Andriy Petrunya, MD  
Coauthors: Alexandr Spektor, MD,  
Olga A. Yevsyukova, MD

3:44  Moderate and High Myopia Correction Using Transepithelial PRK Treatment  
Erika N. Eskina, MD*  
Discussion

4:02  Corneal Coupling: Importance in Incisional and Ablative Procedures  
Noel Alpins, MD, FACS*  
Coauthor: George Stamatelatos, OD

4:07  Comparison of Results After LASEK With Repositioned Flap and Removed Flap  
Magda Rau, MD

*Denotes financial interest; see Financial Interest Index for full listing
4:12 Apple iPad for Thulium Laser Corneal Refractive Surgery  
James J. Salz, MD*  
Coauthors: Stephen D. Klyce, PhD, FARVO, Harry G. Glen, MD, Leonard Teye-Botchway, MD

Discussion

KERATOREFRACTIVE Complications
3:00–4:30 pm  Room 154
Moderator: William W. Culbertson IV, MD*
Panelists: Stephen D. Klyce, PHD, FARVO* 
Matthew Wade, MD 
Jeffrey Whitman, MD*

3:01 Role of Percentage of Tissue Altered as Risk Factor for Ectasia After LASIK in Eyes With Normal Preoperative Topography  
Marcony R. Santhiago, MD, PhD  
Coauthors: David Smadja, MD,* Glauco H. Reggiani Mello, MD,* J. Bradley Randleman, MD*

3:06 Penetrating Keratoplasty for Post-LASIK Ectasia  
Gerald W. Zaidman, MD  
Coauthor: Mikhail Romashko, BSc*

3:11 Patient-Reported Satisfaction With LASIK and Contact Lenses  
Francis W. Price Jr, MD*  
Coauthor: Marianne O. Price, PhD*

3:16 Air-Bubble Migration Patterns During Femtosecond LASIK Flap Creation  
Marie-Claude Robert, MD  
Coauthors: Samir A. Melki, MD, PhD,* Nour I. Khreim*

Discussion

3:46 Correlation of Temperature and Humidity to Incidence of LASIK Flap Striae in High-Volume Refractive Surgery Center  
Ronald R. Krueger, MD, MSE*  
Coauthors: Minoru Tomita, MD, PhD,* Neema Nayeb-Hashemi, MD, MS*

3:51 Steroid-Related IOP Elevation After Photorefractive Keratectomy  
Matthew Caldwell, MD  
Coauthors: Daniel Anderson, MD,* J. Richard Townley III, MD,* Vasudha A. Panday, MD,* Douglas Apsey, OD *

3:56 Intraoperative Bevacizumab Administration to Decrease Postoperative Corneal Haze During Laser Surface Ablation  
Jae Yong Kim, MD, PhD  
Coauthors: Myoung Joon Kim, MD,* Hungwon Tchah, MD,* In Seok Song, MD*

Discussion

MONDAY, APRIL 28

Symposium: Complicated and Challenging Cases in Cataract Surgery Video Symposium
8:00–9:30 am  Room 210ABC
Sponsored by the ASCRS Cataract Clinical Committee
Moderator: Rosa M. Braga-Mele, MD, FRCSC*  
Panelists: David F. Chang, MD* Steven Dewey, MD* Gary Foster, MD* Bonnie An Henderson, MD* Warren E. Hill, MD* Richard S. Hoffman, MD* Nick Mamalis, MD* Donald N. Serafano, MD* Audrey R. Talley Rostov, MD* Abhay R. Vasavada, MS, FRCS* Sonia H. Yoo, MD*  
8:03 Head Nodding in Glaucoma Pseudoexfoliation With Intraoperative Dialysis  
SooSan Jacob, FRCS, MS

8:13 Half of a Cionni Ring for Capsule Support in a Large Area Zonular Dialysis Plus Repair of Traumatic Mydriasis  
Gregory S. H. Ogawa, MD

*Denotes financial interest; see Financial Interest Index for full listing
8:23  Traumatic Cataract With Iridodialysis, Zonular Dehiscence, and Vitreous Prolapse
Yuri McKee, MD*  
8:33  Iatrogenic Aniridia
Athiya Agarwal, MD  
8:43  How Could I Do That?
Ayan Mohanta, MS  
8:53  Opportunities of Microinvasive Surgery in Case of Post Traumatic Subluxation of the Lens and Mydriasis in Patient With High Myopia After Anterior Radial Keratotomy
Marina A. Shanturova, MD  
9:03  What the Pupil? Approaches to Cataract and Corneal Surgery in Advanced ICE Syndrome
Jared R. Younger, MD, MPH  
9:13  Subluxated Capsular Bag-IOL Complex With Endocapsular Ring and Segment
Priya S. Narang, MS  
9:23  Audience voting and presentation of the “Best Teaching Case”

Symposium:
Update on Corneal Collagen Crosslinking

8:00–9:30 AM  
Room 205ABC  

Jointly sponsored by the Cornea Clinical Committee and the Refractive Surgery Clinical Committee

Moderators:  Terry Kim, MD*
Doyle Stulting, MD, PhD*  

Treatment Methods

8:00  Epi-on
John A. Hovanesian, MD*  
8:07  Epi-off
David T. Vroman, MD*  
8:14  High Fluence CXL
William B. Trattler, MD*  
8:21  New Technologies
Michael C. Mrochen, PhD*  
8:28  CXL in Children
Paulo Vinciguerra, MD*  
8:35  Current and Future Indications
Thomas John, MD*  

Discussion

Combination Treatment

8:49  With Intacs
David S. Rootman, MD, FRCSC*  
8:56  With PRK/LASIK
A. John Kanellopoulos, MD*  

Clinical Trials

9:03  Avedro
Peter S. Hersh, MD*  
9:10  CXL USA
Roy S. Rubinfeld, MD*  
9:17  Complications of CXL
Doyle Stulting, MD, PhD*  

Discussion

Symposium:
Military Refractive Surgery Symposium

8:00–9:30 AM  
Room 204AB  

Moderators:  Elizabeth M. Hofmeister, MD
Vasudha A. Panday, MD
Mark F. Torres, MD  

Invited Papers

8:00  Best Practices for Resident Training in Corneal Refractive Surgery
Elizabeth M. Hofmeister, MD  
8:07  LASIK Outcomes for High Hyperopia With Astigmatism and High Mixed Astigmatism
Mark F. Torres, MD  

*Denotes financial interest; see Financial Interest Index for full listing
8:14  Post-PRK Steroid Related Intraocular Pressure Elevation
Matthew Caldwell, MD

8:21  Conflicting Preoperative Topography and Elevation Maps: LASIK, PRK, ICL, or No Surgery?
John Cason, MD

8:28  LASIK Army Special Operation: Why Now? What Changed?
Scott Barnes, MD

8:35  Soft Contact Lenses Versus LASIK for Treatment of Myopia
Steve C. Schallhorn, MD*

Discussion

Free Papers

8:55  Using Artificial Cornea as Bandage to Stabilize Corneal Wounds: Rabbit Model
Karin E. Thomas, MD

9:00  Small-Incision Lenticule Extraction for Low Myopia
Paul Zhao, FRCSed

9:05  Advanced Surface Ablation Techniques: PRK Versus LASEK Versus Epi-LASIK: Comparison of Corneal Haze and Visual Recovery in Myopic Patients
J. Richard Townley III, MD

9:10  Comparison of Bandage Soft Contact Lens Radius of Curvature Following PRK: Randomized, Double-Masked, Prospective Study
Vasudha A. Panday, MD

9:15  Initial Army Experience With Corneal Crosslinking
Anthony J. Johnson, MD and Irene E. Kochevar, PhD

Discussion

INTRAOCULAR SURGERY
Phaco Techniques and Technology
8:00–9:30 AM  Room 152
Moderator: Randall J. Olson, MD
Panelists: Richard B. Packard, MD, FRCS*
Kenneth J. Rosenthal, MD*
Khiun F. Tjia, MD*

8:01  Structural Changes of Clear Corneal Incision Due to Straining and Temperature Alternation in MICS
Yuri Takhtaev, MD
Coauthors: Serge Y. Takhtaev, MD,* Ksenia Boiko*

8:06  Change of Corneal Coma Aberration Depending on Incisional Location in Cataract Surgery
Jin Hyoung Park, MD
Coauthors: In Seok Song, MD,* Jong Hoon Park, MD,* Jae Yong Kim, MD, PhD,* Myoung Joon Kim, MD,* Hungwon Tchah, MD*

8:11  Comparison of Incision Integrity and Morphological Features After IOL Implantation With 3 Injector Devices: Randomized Clinical Trial
Vaishali Vasavada, MS*
Coauthors: Abhay R. Vasavada, MS, FRCS,* Shetal M. Raj, MS,* Viraj Vasavada, MS,* Samaresh Srivastava, DNB*

8:16  Preloaded Injectors for IOL Implantation: Rotational Versus Injectable System
Pietro Giardini, MD
Coauthor: Nicola Hauranieh, MD*

Discussion

8:27  Single-Site Evaluation of Ocular Sealant Compared With Suture for Prevention of Clear Corneal Incision Leaks After Cataract Surgery
John A. Hovanesian, MD*
Coauthor: Roger V. Ohanesian, MD*

*Denotes financial interest; see Financial Interest Index for full listing
8:32 Evaluation of Sutures for Wound Closure of Clear Corneal Incisions With Wound Leaks
Michael B. Raizman, MD*
Coauthors: William J. Flynn, MD,* Stephen S. Lane, MD, Y. Ralph Chu, MD,* Jonathan H. Talamo, MD,* Farrell C. Tyson, MD, FACS*

8:37 Multicenter Evaluation of Propensity for Wound Leaks in Immediate Postoperative Period
Jeffrey H. Levenson, MD
Coauthors: Robert J. Noecker, MD, MBA, * Jay S. Pepose, MD, PhD, * Steven J. Dell, MD, * Eric D. Donnenfeld, MD, * Richard Tipperman, MD*

8:48 Effectiveness of High Vacuum Versus Lower Vacuum With New Phacoemulsification Console With Active Fluidics
David Allen, FRCOphth*
Coauthor: David HW Steel, MBBS, FRCOphth*

8:53 Prospective Clinical Study Using Novel Phaco System With Intraocular System Target Pressure Control and Existing Phaco System
Kerry D. Solomon, MD*
Coauthors: Robert J. Cionni, MD, * Ramón Lorente, MD, PhD,* Douglas M. Fanney, MBA PE*

9:04 Off-Time Duty Cycle Variation in Micropulsed Longitudinal Phacoemulsification
Jason D. Jensen
Coauthors: Kevin Kirk,* Brian C. Stagg, MD,* Brian E. Zaugg, MD,* Isha Gupta,* Mohammed A. Farukhi,* Cecinio Ronquillo Jr, PhD,* William R. Barlow, MD, * Jeff H. Pettey, MD,* Randall J. Olson, MD*

9:14 Quantification of Occlusion Break Surge in Peristaltic-Based Phacoemulsification Systems
Ramón Lorente, MD, PhD

9:09 Determining Optimal Longitudinal Power Setting for Torsional Phacoemulsification Using Ex Vivo Bovine Lens Model
Brian E. Zaugg, MD
Coauthors: Cecinio Ronquillo Jr, PhD,* Kevin Kirk,* Brian C. Stagg, MD,* Jeff H. Pettey, MD,* William R. Barlow, MD, * Mohammed A. Farukhi,* Isha Gupta,* Randall J. Olson, MD*

*Denotes financial interest; see Financial Interest Index for full listing
8:31 Clinical Outcome and Rotational Stability of 4-Haptic Toric IOL in Myopic Eyes
Rita Mencucci, MD
Coauthors: Eleonora Favuzza, MD,* Francesca Guerra, MD,* Ugo Menchini, MD,* Iacopo Paladini, MD*

8:36 Influence of Posterior Astigmatism on Estimation Accuracy of Residual Astigmatism After Toric IOL Implantation
David Smadja, MD*
Coauthors: Marcony R. Santhiago, MD, PhD,* Glauco H. Reggiani Mello, MD*

8:41 New Toric Posterior Chamber IOL for Reduction of Residual Astigmatism Following Phacoemulsification
Gregg A. Feinerman, MD*

8:51 Outcomes of Toric IOL Implantation in Keratoconus Patients Using Intraoperative Aberrometer System
Darcy H. Wolsey, MD, MPH
Coauthors: David J. Felsted, BS,* Robert J. Cionni, MD*

8:56 Toric IOL Outcomes With and Without Advanced Intraoperative Aberrometry
Dan B. Tran, MD*

9:01 Toric IOL Outcomes Using Advanced Guidance System to Confirm Power and Axis of Placement During Routine Cataract Surgery
Helga P. Sandoval, MD, MSCR*
Coauthor: Kerry D. Solomon, MD*

9:06 Surgical Guidance System
Richard M. Awdeh, MD*

9:16 Long-Term Efficacy and Rotational Stability of Hydrophobic Acrylic Toric IOL Implantation in Cataract Surgery Using Slitlamp-Mounted iPhone Adapter
Sonu Goel, DND, MNAMS

P. Dee G. Stephenson, MD*

9:26 Refractive Results of Toric IOL Implantation With and Without Intraoperative Aberrometry
Tal Raviv, MD*

Discussion

CORNEA
Pterygium, Adhesives, Medications
8:00–9:30 AM Room 154
Moderator: Michael W. Belin, MD*
Panelists: Richard S. Davidson, MD* Stephen C. Kaufman, MD, PhD* Li Lim, FRCS(Ed), MMed (Ophth)

8:01 Comparison of Fibrin Glue and Autologous Blood for Conjunctival Autograft Fixation in Pterygium Surgery
Ronan J. Conlon, MD
Coauthors: Sophie Boucher, BSc,* Salina Teja, MD,* Kashif Baig, MD, MBA*

8:06 Faster and Cost-Effective Ways for Conjunctival Autograft Fixation in Pterygium Surgery and Their Comparative Results
Tuhin Chowdhury, MD, DO

8:11 Efficacy of Subconjunctival Bevacizumab Adjunctive Therapy Before Primary Pterygium Surgery
Mohamed E. Shahin, MD, PhD
Coauthors: Amr Abdel-Fattah Gab-Alla, MD,* Dalia S. Fayed, MS,* Ali Khalil, MD*

Discussion

*Denotes financial interest; see Financial Interest Index for full listing
8:26  Amniotic Membrane Contact Lens: Effectiveness in Treating Persistent Keratopithelial Defects Due to Wide Range of Ocular Surface Diseases
Marc Moore, MD
Coauthors: Sarah Y. Connolly, OD,* Ming X. Wang, MD, PhD*

8:31  Indications for Amniotic Membrane Grafts Used in Ontario From 2011 to 2012
Patrick Yang, MD
Coauthor: Clara C. Chan, MD, FRCSC*

8:36  Use of New Self-Retaining Cryo-Preserved Amniotic Membrane Graft to Promote Wound Healing After Superficial Keratectomy
Neel Desai, MD*

8:41  Human Adipose-Derived Stem Cells Promote Wound Healing of Corneal Epithelial Cells in Vitro
Ladan Espandar, MD, MS

Discussion

8:56  Efficacy of Topical Cyclosporine 2% in Patients With Severe Vernal Conjunctivitis
Ilkay Kilic, MD
Coauthor: Begum Bulam, MD*

9:01  Effect of TSG-6 on Corneal Inflammation After Alkali Injury
Samuel F.A. Fulcher, MD
Coauthors: Joo Youn Oh, MD, PhD,* Roxanne L. Reger, MS,* Hosoon Choi,* Darwin J. Prockop, MD, PhD,* Ji Min Yu*

9:06  Clinical Finding in Patients With Topical Anesthesia-Abuse Keratitis: Six Case Reports
Gokhan Kaya, MD
Coauthor: Yusuf A. Yilmaz, MD*

9:11  Anterior Stromal Puncture for Treatment of Recurrent Corneal Erosion Syndrome: Patient Clinical Features and Outcomes
Noa Avni-Zauberman, MD
Coauthors: Pichaporn Artornsombudh, MD,* Yakov Goldich, MD,* David S. Rootman, MD, FRCSC,* Clara C. Chan, MD, FRCSC*

9:16  Incidence and Factors Associated With Microbial Keratitis in Large Cohort of Consecutive Corneal Refractive Surgery Patients
Julie Schallhorn, MD
Coauthor: Steve C. Schallhorn, MD*

Discussion

KERATOREFRACTIVE Surgical Techniques and Technology

8:01  Wavefront Analysis as Additional Tool for Detection of Keratoconus
Sujatha Mohan, DO, MD
Coauthor: Mohan Rajan, MD*

8:06  Second-Generation Corneal Deformation Signal Waveform Analysis in Low and High Astigmatism Normal Corneas After Statistical Correction for Potentially Confounding Factors
Lijun Zhang, MD
Coauthors: D. Rex Hamilton, MD, MS,* Vivian Phan, OD,* Fei Yu, PhD,* Jennifer N. Danesh, BS*

8:11  Second-Generation Corneal Deformation Signal Waveform Analysis in Normal and Manifest Keratoconic Corneas After Statistical Correction for Potentially Confounding Factors
D. Rex Hamilton, MD, MS*
Coauthors: Lijun Zhang, MD,* Vivian Phan, OD,* Fei Yu, PhD,* Jennifer N. Danesh, BS*

Discussion

8:36  Laser in Situ Keratomileusis Outcomes With Ablation Centration on Coaxially Sighted Corneal Light Reflex
Mark E. Johnston, MD, FRCSC

*Denotes financial interest; see Financial Interest Index for full listing
8:41 Very High Astigmatism Outcomes With PRK and LASIK
Xiao-Yang Liu, PhD
Coauthors: Eser Adiguzel, PhD,* Mark Cohen, MD, FRCSC,* Avi Wallerstein, MD, FRCSC*

8:46 Customized Hinge Elliptical Versus Circular Flaps Using Femto-LASIK for Correction of Compound Myopic Astigmatism
Damien Gatine, MD*
Coauthors: Alain Saad, MD,* Emmanuel Guilbert, MD,* Alice Grise-Dulac, MD,* Jean Luc Febbraro, MD*

8:51 Wavefront-Optimized Laser Refractive Suite: Initial Experience
Mohan Rajan, MD
Coauthor: Sujatha Mohan, DO, MD*

Discussion

KERATOREFRACTIVE Surgical Techniques and Technology
8:00–9:30 AM
Room 151A
Moderator: Edward E. Manche, MD*
Panelists: Lewis R. Groden, MD
Ramon Naranjo-Tackman II, MD
Mohamed Shafik Shaheen, MD, PhD

8:01 Refractive Lenticule Extraction: Visual Outcomes, Surgical Technique, and Adverse Events After 2-Year Practice
Jean-François Faure, MD

8:06 Preliminary U.S. Clinical Trial Results: New Femtosecond Laser Lenticule Extraction Procedure for Spherical Myopia Correction
John F. Doane, MD*
Coauthors: William W. Culbertson IV, MD,* Jon G. Dishler, MD,* Vance M. Thompson, MD,* John A. Vukich, MD,* Sonia H. Yoo, MD*

Discussion

8:31 Ocular Surface Analysis After Small-Incision Lenticule Extraction
Elise Landman, MD
Coauthors: Liem Trinh, MD,* Jean-François Faure, MD,* Christophe Baudouin, MD, PhD*

8:36 Small-Incision Lenticule Extraction Versus Femto-LASIK: Posterior Corneal Topographic Changes
Guillermo Garcia, MD
Coauthors: Arturo J. Ramirez-Miranda, MD,* Enrique O. Graue-Hernandez, MD,* Alejandro Navas, MD, MSc,* Angie De La Mota, MD*

8:41 Laser-Assisted Subepithelial Keratectomy Enhancement After Small-Incision Lenticule Extraction Surgery
Mohamad Rosman, FRCSEd(Ophth), FAMS

8:46 Suction Loss During Small-Incision Lenticule Extraction and Impact on Visual Outcome
Cordelia Chan, FRCSEd(Ed)*
Coauthors: Marcus Ang, MBBS, MMed,* Donald TH Tan, FRCSEd,* Jod S. Mehta, MD, FRCSEd*

8:51 Concentric Stromal Keratotomy Binocular: 2-Year Follow-up
Eusebio Garcia Riccomini, MD
Coauthors: Dalibor Razmilic Bonilla, PhD,* Paola Mattei Peña, PhD*

Discussion

ASCRS INNOVATORS SESSION
10:00–11:30 AM
Grand Ballroom
Welcome
Edward J. Holland, MD*
Chair, ASCRS Program Committee

Innovative Presentations
10:02 Presbyopia Reversal: Accommodation Research Using Femtosecond Lasers
Sunil Shah, MD, FRCOphth*

*Denotes financial interest; see Financial Interest Index for full listing
10:13 Role of Corneal CXL in Management of Infectious Keratitis  
Farhad Hafezi, MD, PhD* 
Coauthors: Mohamed Elalfy, MD, Zisis Gatzioufas, MD, Harminder S. Dua, MD, PhD, Dalia G. Said, MD  

10:24 Innovations in Excimer Laser Custom Ablation  
Paolo Vinciguerra, MD*  

10:35 Better Therapeutics in Glaucoma Through Drug Delivery  
Gary D. Novack, PhD*  

10:46 Next Generation of Therapeutic Modalities for Corneal Endothelial Dysfunction  
Shigeru Kinoshita, MD, PhD*  

10:58 2014 Charles D. Kelman Innovator’s Lecture  
Something Borrowed, Something New: Improved Accuracy for IOL Selection  
Warren E. Hill, MD*  

1:00–2:30 pm  
Symposium: Improving Precision in Ophthalmic Surgery: Are We Doing Enough?  
Room 205ABC  
Sponsored by the Journal of Cataract & Refractive Surgery  
Moderators: William J. Dupps Jr, MD, PhD*  
Nick Mamalis, MD*  

1:01 Innovations in Limbal Stem Cell Transplantation  
Virender Sangwan, MD*  

1:11 Innovations in Lamellar Keratoplasty  
Jod S. Mehta, MD, FRCSEd*  

1:21 Innovations in Femtosecond Laser–Assisted Keratoplasty  
Marjan Farid, MD*  

1:31 Innovations in Endothelial Keratoplasty: DSAEK  
Neda Shamie, MD*  

1:41 Innovations in Endothelial Keratoplasty: DMEK  
Michael D. Straiko, MD  

1:44 Residual Astigmatism in Multifocal/Premium IOLs  
Pablo Artal, PhD*  
Steve C. Schallhorn, MD*  

1:58 Discussion  

2:06 Diagnostic Testing for Toric IOLs: Measuring Power and Axis  
Warren E. Hill, MD*  
Helga P. Sandoval, MD, MSCR*  

2:20 Discussion  

Symposium: Innovations in Corneal Transplantation From Around the World Incorporating the 2014 Richard L. Lindstrom, MD, Lecture  
1:00–2:30 PM  
Room 204AB  
Sponsored by CLAO  
Moderators: Deborah S. Jacobs, MD  
Deepinder K. Dhaliwal, MD, LAc*  
Warren R. Fagadau, MD  

1:00 Welcome and Introduction  
Deepinder K. Dhaliwal, MD, LAc*  

1:01 Innovations in Limbal Stem Cell Transplantation  
Virender Sangwan, MD*  

1:11 Innovations in Lamellar Keratoplasty  
Jod S. Mehta, MD, FRCSEd*  

1:21 Innovations in Femtosecond Laser–Assisted Keratoplasty  
Marjan Farid, MD*  

1:31 Innovations in Endothelial Keratoplasty: DSAEK  
Neda Shamie, MD*  

1:41 Innovations in Endothelial Keratoplasty: DMEK  
Michael D. Straiko, MD  

*Denotes financial interest; see Financial Interest Index for full listing
1:51 Innovations in Keratoprosthesis  
Kathryn Colby, MD, PhD*

Introduction of the  
Richard L. Lindstrom Lecture  
Deepinder K. Dhaliwal, MD, LAc*

2:02 Richard L. Lindstrom Lecture  
*Stem Cell Therapy for Corneal Endothelial Disease*  
Shigeru Kinoshita, MD, PhD*

2:28 Conclusion and Presentation of Award  
Warren R. Fagadau, MD

### INTRAOCULAR SURGERY  
Phaco Techniques and Technology  
**3-F**

1:00–2:30 PM  
Room 151B

Moderator: David F. Chang, MD*
Panelists: Kumar J. Doctor, MD  
Douglas A. Katsev, MD*  
Viraj Vasavada, MS*

1:01 Phacoemulsification Time Determinants and Modifiers  
Nigel Morlet, FRACS, FRANZCO*

1:06 Surgical Time for Uncomplicated Cataract Procedures on 2 Surgical Platforms  
Barry A. Schechter, MD*

1:11 Reduction of Cumulative Dissipated Energy, Phaco Times, and Fluid Use With Nuclear Prechopping Compared With Divide-and-Conquer Technique  
Julian Sack, MBBCh, FRANZCO*

1:16 Outcomes of IOL Scaffold Surgery  
Priya S. Narang, MS  
Coauthor: Amar Agarwal, FRCS*

1:31 Visual and Refractive Outcomes Following Secondary Piggyback IOL Implantation to Correct Residual Refractive Errors After Cataract Surgery  
Jia Y. Ng, MBChB, MAcadMed  
Coauthors: Ruba Alobaidy, MBChB,*  
Sathish Srinivasan, FRCSed, FRCOphth,*  
Som Prasad, MS, FRCSed*

1:36 Meta-Analytic Review of Add-On or Piggyback IOL  
Jacob S. Gohari, BA  
Coauthor: Kenneth J. Rosenthal, MD*

1:41 Outcomes of Scleral Fixation With Fibrin Glue for IOLs  
Paul Bastianelli, MD  
Coauthors: Salina Teja, MD,* Ronan J. Conlon, MD,*  
Kashif Baig, MD, MBA*

1:46 Short-Term Results of New Surgical Technique for Intrasceral Fixation Using Catheter Needles: Lock and Lead Technique  
Masayuki Akimoto, MD, PhD*  
Coauthors: Hogara Taguchi, MD,*  
Kohei Takayama, MD, PhD,* Satoko Nakagawa, MD,*  
Kano Hiroi, MD, PhD,* Kaori Ishii, MD*

1:51 New Techniques for Repositioning Dislocated IOLs  
Richard J. Mackool, MD*

Discussion

2:06 Alteration in Spherical Aberration of Cornea After Cataract Surgery  
Hardik A. Shroff, MD  
Coauthors: Ashok Kumar P. Shroff, MD,*  
Dishita H. Shroff, MD*

2:11 Combination for Satisfaction-Enhancement With Bioptics for Pseudophakic Patients  
Amanda Eliza G. Britto, MD  
Coauthors: Rodrigo Vaz De Queiroz Silva, MD,*  
Marcos R. Fenelon Sr, MD*

Discussion

*Denotes financial interest; see Financial Interest Index for full listing
INTRAOCULAR SURGERY
Presbyopia–Correcting IOLs
3-G
1:00–2:30 PM  Room 151A
Moderator: David R. Hardten, MD*
Panelists: Michael J. Endl, MD*
John S. Mehta, MD, FRCS*Ed*
Audrey R. Talety Rostov, MD*

1:01 Comparison of Refractive Lens Exchange With Multifocal IOL and Monovision LASIK in Large Matched Population
Steve C. Schallhorn, MD*
Coauthor: Jan A. Venter, MD*

1:06 Refractive Lens Exchange for Presbyopia: Pearls for Success
Antonio Marinho, MD*

1:11 Multifocal Intraocular Lens Exchange: Case Series
Sharmini A. Balakrishnan, MD
Coauthors: Brunov V. Ventura, MD,*Shaheen C. Kavoussi, MD,*Li Wang, MD, PhD,*Mitchell P. Weikert, MD,*M. Bowes Hamill, MD,*Douglas D. Koch, MD*

Discussion

1:21 Wavefront-Engineered Multifocal IOLs
Maria Cristina Curatolo, PhD
Coauthor: Elena Anastasi*

1:26 Evaluation of Novel Bifocal IOL
Steven Ha
Coauthors: Ronan J. Conlon, MD,*Joshua C. Teichman, MD, MPH, Salina Teje, MD,*Kashif Baig, MD, MBA*

1:31 Innovative Optical Solution in Cataract Surgery: New IOL
Jerome G. Blondel, MD*

Discussion

1:43 Results of Pilot Study Evaluating Performance of New Fluid-Filled Injectable Accommodating IOL
Paul Roux, MD*
Coauthors: Gerd U. Auffarth, MD,*Frik J. Potgieter, MD, FRCS*

1:48 Stability of Intracapsular Implantation of New Fluid-Filled Injectable Accommodating IOL
Louis D. Nichamin, MD*
Coauthors: Frik J. Potgieter, MD, FRCS,*Paul Roux, MD*

1:53 Long-Term Uveal and Capsular Biocompatibility of New Accommodating IOL
Justin Kohl, MD
Coauthors: Joshua R. Ford, MD,*Scott C. Cole, MD,*Shaheen C. Kavoussi, MD,*Liliana Werner, MD, PhD,*Nick Mamalis, MD,*Gareth Gardiner, BS*

Discussion

2:05 Safety and Efficacy of Newly Developed Multifocal IOL
Rany Mitwally, MD

2:10 Refractive Cataract Surgery With New Multifocal Toric IOL
Willem R. Goslings, MD, PhD*

Discussion

SUPPLEMENTARY
3-H
1:00–2:30 PM  Room 150
Moderator: Rupal H. Trivedi, MD
Panelists: Arturo Perez-Arteaga, MD
Robert P. Rivera, MD*
L. Felipe Vejarano, MD

1:01 Practice Patterns of Canadian Ophthalmological Society Members in Cataract Surgery—Survey 2013
Lindsay Ong-Tone, FRCS*

Discussion

*Denotes financial interest; see Financial Interest Index for full listing
1:07  Online Reviews of Ophthalmologists Compared by Subspecialty
Robert M. Kinast, MD*
Coauthors: Gordon T. Barker, MS, Susan H. Day, MD, Steven L. Mansberger, MD, MPH

Discussion

1:13  Effect of IOL Selection on Driving Habits
George H. Beiko, BM BCh, FRCSC*

Discussion

1:19  Visual and Cognitive Improvement Following Cataract Surgery in Dementia Patients
Julie K. Belkin, MD
Coauthors: Jonathan Lass, MD, Thomas L. Steinemann, MD, Tatiana M. Riedel, Alan J. Lerner, MD, Sara Debanne, PhD, Grover C. Gilmore, PhD

Discussion

1:29  Digital Management and Education of Cataract Patients: Analyzing Effects of a Mobile Health Platform
Richard M. Awdeh, MD*
Coauthors: Donna Hanrahan, MS, Sonia H. Yoo, MD, James A. Katz, MD, Eric D. Donnenfeld, MD, Michelle Ingrosso

Discussion

1:35  Trustworthiness of Best Practice Guidelines for Management of Patients With Cataracts
Benjamin K. Young, BA, MS
Coauthors: Paul B. Greenberg, MD, Curtis Margo, MD, MPH

Discussion

1:41  Aravind Pseudoexfoliation Study: 1-Year Postoperative Results
Haripriya Aravind, MD
Coauthors: Shivkumar Chandrashekar, Rengaraj Venkatesh, MD, Alan L. Robin, MD

Discussion

1:47  Training Fellows in Phaco Surgery for Posterior Polar Cataracts
Luz Marina Melo, MD
Coauthor: Luis Escaf, MD

Discussion

1:53  Research Productivity Among Fellowship-Trained Academic Ophthalmologists in North America
Puneet S. Braich, MD, MPH
Coauthors: Matthew Jackson, BS, Jorawer S. Singh, BS, MSC, Vikram S. Brar, MD, Christopher T. Leffler, MD, MPH

Discussion

1:59  Microbial Patient and Operating-Room Personnel Sampling and Culture Evaluation of Ambulatory Ophthalmology Unit: Novel Protocol
Georgios Chatzilaou, MD
Coauthors: Ioanna Kontari, MD, Sophia Bourdou, RN, A. John Kanellopoulos, MD

Discussion

2:05  Effect of Ocular Dominance and Modified Monovision on Visual Performance Compared With Traditional Monovision
Scott M. MacRae, MD*
Coauthors: Len Zheleznyak, MS, Geunyoung Yoon, PhD, Aixa Alarcon, PhD

Discussion

2:11  Visual Loss After Osteocorticotomy of Maxillary Bone
Zahra Javdani, MD

Discussion

2:17  Incidence and Analysis of Myopia
Chattadi Srinivas, MD*

Discussion

*Denotes financial interest; see Financial Interest Index for full listing
2:23 Choroidal Blood Flow Change in Eyes With High Myopia
Jae Woong Koh, MD, PhD
Coauthors: Min Ho Shin, Yoori Yang, MD

Discussion

2:29 Patient-Reported Outcomes After Laser Anterior Ciliary Excision Procedure Measured With Catquest-9SF 9-Item Questionnaire
Steven M. Silverstein, MD*
Coauthors: AnnMarie Hipsley, PhD, Mitchell A. Jackson, MD, David H. Ma, MD, PhD

Discussion

CORNcA
Surgical Techniques and Technology

1:00–2:30 pm Room 152
Moderator: Terry Kim, MD*
Panelists: Elsie Chan, MBBS, FRANZCO
Mark A. Terry, MD*
Gerald W. Zaidman, MD

1:01 Feasibility of Implementing National Corneal Transplant Registry: Ottawa Pilot Study
Patricia Yassa, BSc
Coauthors: Salina Teja, MD,* Ronan J. Conlon, MD,* Kashif Baig, MD, MBA*

1:06 Korean Xenocorneal Transplantation Consensus Statement: Ethical and Regulatory Guidelines in Clinical Trials
Mee Kum Kim, MD
Coauthors: Won Ryang Wee, MD, PhD,* Hyuk Jin Choi, MD, PhD*

1:11 Vision-Related Impact of Corneal Transplantation on Quality of Life in an Elderly Patient Population
Sidharth Puri, BA
Coauthor: Shameema Sikder, MD*

Discussion 1:24 Outcomes of Boston Keratoprosthesis as Primary Penetrating Corneal Procedure
Samuel Levallois, MD
Coauthors: Marie-Claude Robert, MD,* Mona Harissi-Dagher, MD,* Raphaëlle Fadous, MD*

1:29 Use of Boston Type I Keratoprosthesis as a Primary Corneal Procedure
Virender S. Sangwan, MS

1:34 Outcomes of Boston Type I Keratoprosthesis in Stevens-Johnson Syndrome
Jamie K. Alexander, MD
Coauthor: Anthony J. Aldave, MD*

1:39 Outcomes of Boston Keratoprosthesis Type 1 in Management of Congenital Aniridic Keratopathy
Kevin Shah, MD
Coauthors: Mahshad Darvish, MD, MBA,* Edward J. Holland, MD*

1:44 New Device for Preparation of Donor Corneal Tissue During Boston Keratoprosthesis Surgery
Behrooz Azizi, MD, MSc
Coauthors: Salina Teja, MD,* Ronan J. Conlon, MD,* Joshua C. Teichman, MD, MPH,* Kashif Baig, MD, MBA*

1:49 Contralateral Eye Comparison-2 Kpros in Buphthalmos With Multiple Transplant Failures: Optical Quality, Implications, and Critical Lessons
Joseph J. Ma, MD*
Coauthor: Alice Zhu*

1:54 Variable Depth Foldable Artificial Cornea for Treatment of Corneal Blindness
Yichieh Shiu, MD*

Discussion 2:07 Descemet Rejection Index: Novel Index for Diagnosis of Corneal Graft Rejection
Mohamed Abou Shousha, MD, PhD
Coauthors: Matthew Council, MD,* Sean L. Edelstein, MD,* Andrew T. Melson, BA,* Sonia H. Yoo, MD,* Victor L. Perez, MD*

*Denotes financial interest; see Financial Interest Index for full listing
Ten Cases of Recipient Opaque Endothelial Membrane Disruption by Nd:YAG Laser in Keratoplasty
Yongchan Kim, MD
Coauthor: Mansoo Kim, MD, PhD*

Phototherapeutic Keratectomy in Treatment of Anterior Basement Membrane Dystrophy: Cross-Sectional Study
Salina Teja, MD
Coauthors: Ronan J. Conlon, MD,* Kashif Baig, MD, MBA,* George Mintsiosulis, MD,* W. Bruce Jackson, MD, FRCSC*

Functional Range of Vision With Profocal Shape-Changing Corneal Inlay
José L. Güell, MD*

Discussion

Combining LASIK and Inlay Implantation to Treat Ametropic Presbyopia
Wolfgang Riha, MD*

Optical Analysis of Eyes Implanted With Cornea Inlays for Correction of Presbyopia
Sandra M. Beer, PhD*
Coauthors: Mayumi Nakano, MD,* Cláudia M. Francesconi, MD,* Enrico J. Nitschke,* Mauro Campos, MD,* Flavio E. Hirai, MD, PhD*

Staging Refractive Correction and Inlay Implantation for Treatment of Ametropic Presbyopia
Jeffery J. Machat, MD, FRCSC*

Factors Affecting Visual Acuity Outcomes in Corneal Inlay Patients
Perry S. Binder, MS, MD*

GLAUCOMA
1:00–2:30 PM Room 155

Comparison of Argon-Laser Peripheral Iridoplasty and Medical Therapy in Immediate Treatment of Acute Primary Angle Closure
Chelvin Sng, MBChir, FRCSEd

Evaluating Replaceable Hydrogel Punctum Plugs as Placebo Vehicles for Sustained Drug Delivery
Robert J. Noecker, MD, MBA*
Coauthors: Thomas R. Walters, MD,* Thomas R. Elmer Jr, MD,* Michael J. Endl, MD,* Claus M. Fichte, MD,* William J. Flynn, MD*

*Denotes financial interest; see Financial Interest Index for full listing
1:11 Trustworthiness of Best Practice Guidelines for Management of Primary Open-Angle Glaucoma

Annie M. Wu
Coauthors: Connie M. Wu,* Benjamin K. Young, BA, MS,* Paul B. Greenberg, MD*

Discussion

1:21 Proportion of Undetected Narrow Angles or Angle Closure in Cataract Surgery Referrals

Stephanie N. Kletke, BSc
Coauthors: Devesh K. Varma, MD, FRCSC,* Amandeep S. Rai, MD,* Ike K. Ahmed, MD*

1:26 Association of Pigmentary Glaucoma and Nuclear Cataract

Deborah Kim, MD
Coauthors: Sameh Mosaed, MD,* Zina Zhang, MD*

Discussion

1:36 Correlating OCT to Visual Field for Earlier Detection and Management of Glaucoma

Clifford Terry, MD*

1:41 Normative Data of Retinal Nerve Fiber Layer Thickness Using Spectral-Domain Optical Coherence Tomography in Young Indian Adult Eyes

Vineeth B. Bhimshetty, DNB

Discussion

1:51 Comparison of IOP Measurements Between Ocular Response Analyzer and Goldmann Applanation Tonometry Before and After Corrective Refractive Surgery

J. Richard Townley III, MD
Coauthors: Vincent Vu, MD,* Jason N. Crosson, MD,* Matthew Caldwell, MD,* Paul M. Drayna, MD,* Vasudha A. Panday, MD*

1:56 Intraocular Pressure Study in Healthy Eyes: Goldmann Tonometry Versus Dynamic Contour Tonometry Versus No-Contact Tonometry Versus Scheimpflug Device

Michele Lanza, MD
Coauthors: Vito Romano, MD,* Carlo Irregolare, MD,* Ugo Antonello Gironi Carnevale, PhD*

2:01 Use of Biomechanical Waveform Analysis to Establish IOP and Biomechanical Properties of Cornea in Adult Myopic Egyptian Patients

Amr Abdel-Fattah Gab-Alla, MD

Discussion

2:11 Increasing Incidence of Conjunctival Lesion Excisions After Popularization of Prostaglandin Analogs

Daniel Youngjun Choi, MD
Coauthors: Robert Chang, MD,* Kamyar Vaziri, MD,* Darius M. Moshfeghi, MD,* Andrew A. Moshfeghi, MD, MBA,* Suzann Pershing, MD, MS*

2:16 Acute Corneal Edema With Subsequent Thinning and Hyperopic Shift After Selective Laser Trabeculoplasty

Jared Knickelbein, MD, PhD
Coauthors: Annapurna Singh, MD,* Brian E. Flowers, MD,* Unni K. Nair, MD,* Joel S. Schuman, MD,* Ian P. Conner, MD, PhD*

2:21 Malignant Glaucoma After Routine Cataract Surgery

Devesh K. Varma, MD, FRCSC*
Coauthors: Graham W. Belovay, MD,* Diamond Y. Tam, MD,* Ike K. Ahmed, MD*

Discussion

*Denotes financial interest; see Financial Interest Index for full listing
**Symposium: Managing Refractive Issues in Glaucoma Patients**

*3:00–4:30 PM*  
*Room 205ABC*

**Sponsored by the ASCRS Glaucoma Clinical Committee**  
**Moderators:** Paul Harasymowycz, MD*  
Steven Vold, MD*

**Surgical Decision-Making and Technique Pearls**

3:00 **Cataract Surgery Alone**  
Thomas Patrianakos, MD

3:07 **Combining Cataract Surgery With MIGS**  
Paul Harasymowycz, MD*

3:14 **Combining Cataract Surgery With Filtration Surgery**  
Davinder S. Grover, MD, MPH*

3:21 **Filtration or Tube Shunt Surgery Alone**  
TBD

3:28 **Discussion**

**Special Circumstances**

3:35 **Cataract Surgery in Pseudoexfoliation Syndrome**  
Garry P. Condon, MD*

3:42 **Cataract Surgery in the Nanophthalmic Patient**  
Devesh K. Varma, MD, FRCSC*

3:49 **Cataract Surgery in the Hypotonous Eye**  
Nathan M. Radcliffe, MD*

3:56 **Discussion**

**Advanced Refractive Approaches**

4:03 **Benefits of Femtosecond Cataract Surgery**  
Richard A. Lewis, MD*

4:10 **Optimizing Astigmatic and Presbyopic Correction**  
John P. Berdahl, MD*

4:17 **Indications for Corneal Refractive Surgery**  
Steven Vold, MD*

4:24 **Discussion**

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**Symposium: Data Security: HIPAA Compliance and the Meaningful Use Data Security Requirement**

*3:00–4:30 PM*  
*Room 204AB*

**Sponsored by the ASCRS Health Information Technology Committee**

**Moderator:** Candace S. Simerson, COE*  
President and Chief Operations Officer, Minnesota Eye Consultants, P.A.

**Panelists:**  
Daniel M. Bernick, Esq, MBA*  
Principal, The Health Care Group

Mark E. Johnson*  
President, MedNetwoRx

Janna Mullaney, COE, OCS*  
Chief Operations Officer, Katzen Eye Group

The 2014 HIT Symposium will focus on Data Security: HIPAA Compliance and the Meaningful Use Data Security Requirement. Many ophthalmic practices grapple daily with privacy and data security issues. This symposium will help answer some of the most common questions practices may have about compliance and suggest corrective actions to take once a security breach has occurred.

The symposium will provide a better understanding of the meaningful use attestation data security requirement, advice on using the security risk analysis process to identify potential security problems to mitigate risks before they become liabilities, and tips on handling data security with the continuing advancement of mobile devices in the workplace.

A panel will present case studies of frequently occurring security situations, and provide the audience the opportunity to weigh in on the case study scenarios. The panel will then address the possible issues present in each case study, offer opinions on whether a security breach has occurred, and provide prevention techniques and solutions for each situation.

*Denotes financial interest; see Financial Interest Index for full listing*
Symposium: New Technologies—What Do I Really Need?

3:00–4:30 pm  Room 210ABC
Moderator: Robert H. Osher, MD*
Panelists: Graham D. Barrett, FRANZCO*
          David F. Chang, MD*
          Richard L. Lindstrom, MD*
          Richard B. Packard, MD, FRCS*
          Fernando C. Trindade, MD, PhD
          Abhay R. Vasavada, MS, FRCS*

The newest technologies in cataract surgery will be critically reviewed. Topics include preoperative testing, intraoperative guidance systems, new IOLs and delivery methods, and the most current astigmatism management options. A panel of world experts in cataract surgery will provide comment and assessment on these most current technologies.

INTRAOCULAR SURGERY Complications

3:00–4:30 pm  Room 151A
Moderator: Lisa B. Arbisser, MD*
Panelists: Steve A. Arshinoff, MD, FRCSC*
          George H. Beiko, BM BCh, FRCSC*
          Boris E. Malyugin, MD, PhD*

3:01 ASCRS–eSCRS Survey on Foldable IOLs Requiring Explantation or Secondary Intervention: 2013 Update
Nick Mamalis, MD*
Coauthors: Scott C. Cole, MD,* Joshua R. Ford, MD,* Justin Kohl, MD*

3:06 Lens Epithelial Cell Growth on 2 Hydrophobic IOL Anterior Optical Components
Guy Kleinmann, MD*
Coauthors: Tamir Weinberg, MD,* David Zadok, MD*

3:11 Light-Scattering and Light-Transmittance Findings in a Series of Calcified Single-Piece Hydrophilic Acrylic IOLs of the Same Design
Daniel R. Barra, MD
Coauthors: Liliana Werner, MD, PhD,* Bruna V. Ventura, MD,* João Luiz P. Costa, MD,* Tiago S. Ribeiro, MD,* Caleb K. Morris, BA,* Fabio Dornelles, MD*

3:16 Localized Opacification of Hydrophilic Acrylic IOLs After Procedures Using Intracameral Injection of Air/Gas
Liliana Werner, MD, PhD*
Coauthors: Garth A. Wilbanks, MD,* Carla P. Nieuwendaal, MD,* Anish Dhital, MRCOphth,* Aaron N. Waite, MD,* Gerald Schmidinger, MD,* Nick Mamalis, MD*
Discussion

3:26 Update on Prevention and Surgical Management of Negative Dysphotopsia
Nicole R. Fram, MD*
Coauthor: Samuel Masket, MD*

3:31 Comparison of Pseudophakic Dysphotopsia Between Equiconvex Bi-Aspheric Ovoid IOL and Other Monofocal IOLs
Robert D. Pilkinton Jr, MD
Discussion

3:41 Use of Fukasaku Viewing to Retrieve Dropped Nucleus and IOL
Hideharu Fukasaku, MD

3:46 Expulsive Hemorrhage During Cataract Surgery: Modern Manifestations and Outcomes
Zinaida Kataeva, MD
Coauthors: Oleg V. Shilovskikh, MD,* Igor Idov, MD,* Pavel Rylov, MD*

3:51 Pars Plana Intracapsular Haptic Fixation of Posterior Chamber IOL
Yusuke Matsuzaki, MD
Coauthors: Toshihiko Ohta, MD,* Hiroshi Toshida, MD, PhD,* Akira Murakami, MD*

3:56 Pars Plicata Anterior Vitrectomy for Intraoperative Posterior Capsule Rupture: 18-Month Study
Priya S. Narang, MS
Coauthor: Amar Agarwal, FRCS*
Discussion

*Denotes financial interest; see Financial Interest Index for full listing
INTRAOCULAR SURGERY
Power Calculations

3:00–4:30 PM
Room 150

Moderator: Warren E. Hill, MD*
Panelists: Paul J. Harton Jr, MD, PharmD
Jack T. Holladay, MD, MSEE*
William R. Barlow, MD

3:01 Results of Real-World Clinical Use of Intraoperative Aberrometry System With Streaming Refractive Data
Richard L. Lindstrom, MD*

3:06 Surgical Outcomes in Patients With Prior Refractive Surgery Who Had Cataract Surgery Using Intraoperative Wavefront Aberrometry
Anjali Tannan, MD
Coauthors: Randy J. Epstein, MD,*
Parag A. Majmudar, MD,* Charles Faron, OD,*
Vanee Virasch, MD,* Jonathan B. Rubenstein, MD*

3:11 Comparing Intraoperative Wavefront Aberrometry With Different IOL Power Calculation Methods in Patients With Prior Myopic Refractive Surgery
Anthony Farah, MD
Coauthors: Mark Blecher, MD,*
Jeffrey F. McMahon, BS,* Robert S. Bailey Jr, MD,*
Sagun J. Pendse, MD*

3:16 Intraocular Lens Calculations Using Intraoperative Wavefront Aberrometry, Partial Coherence Interferometry, and Low-Coherence Reflectometry
Bruna V. Ventura, MD
Coauthors: Li Wang, MD, PhD,*
Mitchell P. Weikert, MD,* Sumitra Khandelwal, MD,*
Douglas D. Koch, MD*

Discussion

3:36 Use of Intraoperative Aberrometry to Refine IOL Power Calculations: Retrospective Analysis of 200 Eyes
Gary Foster, MD*

3:41 Improvement in Predictive Power of Intraoperative Aberrometry With Optimized Multifocal IOL Constants
Jason P. Brinton, MD
Coauthors: Daniel S. Durrie, MD,* Jason Stahl, MD*

3:46 Comparison of Postoperative Refraction With Intraoperative Refraction by Intraoperative Wavefront Aberrometer During Cataract Surgery
Ming X. Wang, MD, PhD*
Coauthors: Megan L. Blemker, OD,*
Bryce D. Brown, OD*

3:51 Accuracy of Intraoperative Wavefront Aberrometer for Toric IOL
Jeffrey Liu, MD
Coauthors: Sumit (Sam) Garg, MD,*
Marjan Farid, MD,* Matthew Wade, MD,*
Roger F. Steinert, MD*

*Denotes financial interest; see Financial Interest Index for full listing
3:56 Influence of OVD Use on Intraoperative Aberrometry
Samuel Masket, MD*
Coauthor: Nicole R. Fram, MD*

Discussion

3:33 Comparative Analysis of Visual Outcomes After Implantation of Bifocal and Trifocal Diffractive IOLs
Alfredo Castillo, MD, PhD
Coauthors: Carlos Palomino, MD,*
David Carmona, OD*

Discussion

3:50 Vision Outcomes With Presbyopia-Correcting IOLs in Patients With 20/40 or Worse CDVA Versus Better Than 20/40 CDVA Before Cataract Surgery
Ella G. Faktorovich, MD
Coauthor: Neil J. Friedman, MD*

3:55 Visual Outcomes After Bilateral or Unilateral Implantation of Nonrotational Dual-Optic Bi-Aspheric IOL
John F. Blaylock, MD
Coauthors: Michael Petrik, OD, MSc,*
Zhaomin Si, MD, OD*

4:00 Long-Term Clinical Outcomes of Rotationally Asymmetric and Diffractive Multifocal IOLs
Jae Hong Sun, MD
Coauthors: Jong Hoon Park, MD,* In Seok Song, MD,*
Jin Hyoung Park, MD,* Jae Yong Kim, MD, PhD,*
Myoung Joon Kim, MD,* Hungwon Tchah, MD*

Discussion

3:01 Outcome of Topography-Guided Photorefractive Keratotomy With Crosslinking for Ectasia After LASIK
Simon P. Holland, MB, FRCSC
Coauthors: David T. Lin, MD, FRCSC,
Johnson Tan, MBBS, FRCSEd (Ophth)

*Denotes financial interest; see Financial Interest Index for full listing
3:06  Effect of Epithelium-on Corneal CXL for Corneal Ectasia on Spectacle-Corrected Visual Acuity
         Jonathan M. Davidorf, MD

3:11  Safety and Efficacy of Consecutive LASIK and Accelerated Corneal CXL: Prospective Analysis
         David Donate, MD

Discussion

3:26  Assessment of Refractive Outcome and Surface Changes of Keratoconic Eyes after Simultaneous Customized Trans-PRK and Corneal CXL
         Tarek A. El-Naggar, MD, FRCS

3:31  Topographic Aberrometric-Guided Photorefractive Keratectomy for Keratoconus With Accelerated Simultaneous Collagen Crosslinking Using High-Tech-Solution Laser
         Safwan AL Bayati, FRCS, FICMS*

3:36  Refractive Outcomes of Topography-Guided Photorefractive Keratectomy With Simultaneous CXL for Keratoconus
         David T. Lin, MD, FRCSC
         Coauthors: Simon P. Holland, MB, FRCS, and Johnson Tan, MBBS, FRCSEd (Ophth)

Discussion

3:51  Accelerated Versus Conventional Corneal CXL for Keratoconus
         Hesam Hashemian, MD
         Coauthors: Mahmoud Jabbarvand, MD, Mehdi Khodaparast, MD, and Kambiz Amelizamani, MD

3:56  Comparison of Epithelium-off and Transepithelial Corneal CXL for Treatment of Keratoconus
         Mohammed Iqbal H. Saleem, MD

4:01  Retrospective Analysis of 3-Year Post-CXL Results in 200 Consecutive Eyes
         Ramamurthy Dandapani, MD
         Coauthor: Chitra R. Ramamurthy, MD

4:06  Initial Clinical Experience of Topography Customized CXL Applications for Myopic, Hyperopic, and Presbyopic Refractive Corneal Change
         A. John Kanellopoulos, MD*
         Discussion

KERATOREFRACTIVE Surgical Techniques and Technology

3:01  Prospective Randomized Eye-to-Eye Comparison of 150 kHz Femtosecond Laser to 60 kHz Femtosecond Laser for LASIK: 1-Year Results
         Edward E. Manche, MD*
         Coauthor: Charles Q. Yu, MD*

3:06  Modern LASIK Surgery in Millennial Generation: Report of Improved Rates of Enhancements and Refractive Outcomes in Patients Younger Than 30 Years
         Daniel S. Durrie, MD*
         Coauthors: Ronald L. Rebenitsch, MD, and Theodore A. Pasquali, MD*

3:11  Safety, Efficacy, and Predictability of LASIK for Correction of Myopia Using Latest 1050-Hz Scanning-Spot Laser System
         Mariko Mita, MD, PhD
         Coauthors: Tadayuki Nakamura, MD, Satoshi Yukawa, MD, Minoru Tomita, MD, PhD*

3:16  Evaluation of Cyclotorsion in Relation to Operated Eye, Corneal Curvature, and Refractive Error
         Shahira R. Mahmoud, MD
         Coauthors: Nivin S. Helmy, MD, Hazem Wahid Kandil, MD, PhD, and Ahmed E. Shama, MD, PhD*
         Discussion

*Denotes financial interest; see Financial Interest Index for full listing
3:31 Partial Corneal CXL to Stabilize Hyperopic LASIK Outcomes
Christoph Kranemann, MD
Coauthor: Marcelo O. Stevenson, MD*

3:36 Effect of Angle Kappa on Hyperopic LASIK
Lewis R. Groden, MD
Coauthor: Alfred White Jr*

3:41 Hyperopic LASIK Treatments Using Asymmetric Profile
Diego de Ortueta, MD, FEBO*

Discussion

3:56 Prospective Single-Center Trial to Evaluate Safety and Efficacy of Creating LASIK Flaps With Femtosecond Laser
Stephen Slade, MD*

4:01 Vector Analysis of Compound Myopic Astigmatism Using 2 Wavefront-Guided Excimer Platforms
Brian C. Toy, MD
Coauthors: Charles Q. Yu, MD,* Edward E. Manche, MD*

4:06 Our Experience of LASIK Refractive Surgery With Customized Wavefront Platform
Vidushi Sharma, MD, FRCS
Coauthor: Suresh K. Pandey, MD*

4:11 Biomechanical Changes Pre- and Post-Flapless Femto Refractive Procedure and Femto-LASIK by Assessment of Corneal Deformation Response
Moones F. Abdalla, MD
Coauthors: Osama S. Ibrahim, MD, PhD,* Ahmed A. El-Massry, MD*

Discussion

INTRAOCULAR SURGERY
Iris Repair and PCO
3:00–4:30 pm
Room 155
Moderator: Michael E. Snyder, MD*
Panelists: Mitchell A. Jackson, MD* James C. Loden, MD* Yuri Takhtaev, MD

3:01 Compassionate-Use Clinical Trial of Custom Artificial Iris Implantation
Kevin M. Miller, MD*

3:06 Safety and Efficacy of Black Iris Diaphragm Implantation in Eyes With Congenital and Acquired Iris Defects
Carlos M. Nicoli, MD
Coauthor: Kevin M. Miller, MD*

3:11 Surgical Technique for Explantation of Cosmetic Anterior Chamber Iris Implants
Parnian Arjmand, MSc
Coauthors: Patrick Gooi, MD,* Ike K. Ahmed, MD*

Discussion

3:30 Short-Term PCO in Cataract Surgery Using Low- and High-Vacuum Technique
Jong Wook Bang, MD
Coauthors: Doh Lee, MD,* Jin Hyoung Kim, MD, PhD*

3:35 Two-Year Follow-up of PCO Development and Glistenings for Two 1-Piece Hydrophobic Acrylic IOLs: Intraindividual Comparison
Björn Johansson, MD, PhD*

3:40 Optimizing Open-Capsule Device for PCO Prevention
Guy Kleinmann, MD*
Coauthor: Ehud I. Assia, MD*

Discussion

3:59 Posterior Capsule Opacification and Glistenings of New Single-Piece Hydrophobic Acrylic IOL: 12-Month Evaluation
Zeki Tunc, MD
Coauthors: Fırat Helvacioglu, MD,* Sadık Sencan, MD*

*Denotes financial interest; see Financial Interest Index for full listing
4:04 Posterior Capsule Opacification After Implantation of Hydrophobic Acrylic IOL With Added Optic-Haptic Junction Barrier in Rabbit Eye Model
Qun Peng, MD*
Coauthors: James M. Scott, MS,* David A. Downer*

4:09 Long-Term Uveal and Capsular Biocompatibility and Stability of New Disc-Shaped IOL After Nd:YAG Posterior Capsulotomy
Joshua R. Ford, MD
Coauthors: Justin Kohl, MD,* Scott C. Cole, MD,* Gareth Gardiner, BS,* Shail A. Vasavada, MD,* Liliana Werner, MD, PhD,* Nick Mamalis, MD*

Discussion

TUESDAY, APRIL 29

Symposium: Femtosecond Laser Refractive Cataract Surgery
8:00–9:30 AM Room 204AB
Moderator: Robert J. Cionni, MD*
Panelists: Douglas D. Koch, MD* Jason J. Jones, MD* Stephen Slade, MD* William B. Trattler, MD*

This interactive symposium is designed to educate attendees about the use of the femtosecond laser for refractive cataract surgery and is not intended to be a format for comparing platforms. The moderator will ask the panelists about femtosecond outcomes compared to manual procedure outcomes. Surgical techniques and surgical pearls will be shared as well. Audience response will be utilized to further enhance the dialogue.

KERATOREFRACTIVE Topography, Keratometry, Pachymetry

8:00–9:30 AM Room 151A

8:01 Refractive Surgery Evaluation and Risk for Corneal Ectasia, Inter-Rater Agreement, and Comparison With New Software: Score Analyzer
Florence Cabot, MD
Coauthors: Alain Saad, MD,* George D. Kymionis, MD, PhD,* Ana Paula Fraga Santini Canto, MD,* Sonia H. Yoo, MD,* Damien Gatinel, MD*

8:06 Keratoconus Diagnosis and Progression Criteria Based on Multiple Imaging Devices
Anam Qureshi, MD
Coauthors: George Asimellis, PhD,* Ioanna Kontari, MD,* A. John Kanellopoulos, MD*

8:11 Corneal Enantiomorphism in Normal and Keratoconus Eyes
Alain Saad, MD*
Coauthors: Emmanuel Guilbert, MD,* Alice Grise-Dulac, MD,* Jean Luc Febbraro, MD,* Damien Gatinel, MD*

Discussion

8:31 Preoperative Scheimpflug Analysis of Refractive Surgery Patients With Posterior Embryotoxon
Edward W. Trudo, MD

8:36 Correlation of Spectral-Domain OCT Measurements of Corneal Power and Epithelial Remodeling With Mild Myopic Regression After Optimized Femto-LASIK
Karolinne M. Rocha, MD, PhD*
Coauthor: Ronald R. Krueger, MD, MSE*

Discussion

*Denotes financial interest; see Financial Interest Index for full listing
**INTRAOCULAR SURGERY**

**Astigmatism Management**

8:00–9:30 AM  
**Room 151B**

Moderator: Nick Mamalis, MD*

Panelists:  
- Michael Goggin, FRCSI(Ophth), FRANZCO  
- Louis D. Nichamin, MD*  
- Jonathan B. Rubenstein, MD*

8:01  
**Strategy for Astigmatism Management in Refractive Cataract Surgery**

William F. Wiley, MD*

8:06  
**Biaxial Phaco: Induced Astigmatism and Change in Higher-Order Aberrations**

L. Felipe Vejarano, MD

8:11  
**Repeatability and Reliability of Corneal Biomechanical Measurements After Uncomplicated Phacoemulsification**

Mathew K. Kummelil, MD  
Coauthors: Rohit Shetty, DNB, FRCS, *  
Rudy M. Nuijts, MD, PhD*

**Discussion**

8:21  
**Long-Term Astigmatism Outcomes With UV-Light-Adjustable IOL**

Fritz Hengerer, MD  
Coauthors: H. Burkhard Dick, MD,*  
Ina Conrad-Hengerer, MD*

8:26  
**Astigmatism Correction With Light-Adjustable Lens**

Steven D. Vold, MD*  
Coauthors: Vance M. Thompson, MD,*  
Robert K. Maloney, MD,*  
Doyle Stulting, MD, PhD,*  
T. Hunter Newsom, MD,*  
Light-Adjustable Lens FDA Study Group*

**Discussion**

8:39  
**Intrastromal Arcuate Keratotomy With Femtosecond Laser for Cataract Surgery**

David A. Salz, MD  
Coauthors: Mark Blecher, MD,*  
Robert S. Bailey Jr, MD,*  
Mark F. Pyfer, MD*

8:44  
**Femtosecond Laser–Assisted Intrastromal Astigmatic Keratotomy for Treatment of Astigmatism Post-Penetrating Keratoplasty**

Season Tse Wing Yeung, MBBS, FRANZCO  
Coauthors: Ronan J. Conlon, MD,*  
Salina Teja, MD,*  
Joshua C. Teichman, MD, MPH,*  
George Mintsiouli, MD,*  
W. Bruce Jackson, MD, FRCS,*  
Kashif Baig, MD, MBA*

8:49  
**Femtosecond Laser Arcuate Corneal Incisions: Are They Superior to Toric IOLs in Astigmatic Cornea?**

Pavel Stodulka, MD, PhD*

8:54  
**Comparison of Conventional Limbal Relaxing Incisions and Femtosecond Laser Arcuate Incisions for Correction of Astigmatism at Time of Cataract Surgery**

Robert J. Weinstock, MD*

**Discussion**

9:07  
**Effect of New Architecture for Femtosecond Laser Astigmatic Keratotomy on Induced Aberration in Patient-Specific Computational Modeling**

Anita Nevyas-Wallace, MD*

Coauthors: Cynthia J. Roberts, PhD,*  
Harald P. Studer, PhD*

9:12  
**Optimizing Astigmatism and Refractive Results in Femtosecond Laser–Assisted Cataract Surgery With Multifocal IOL Implantation**

Fabio H. Casanova, MD, PhD

9:17  
**Nomogram Development for Femtosecond Laser Arcuate Incisions in Refractive Laser-Assisted Cataract Surgery**

Jonathan H. Talamo, MD*  
Coauthors: Kathryn M. Hatch, MD,*  
Emily C. Woodcock, BS*

**Discussion**

*Denotes financial interest; see Financial Interest Index for full listing
**CORNEA DSEK, DMEK, DALK**

**8:00–9:30 AM Room 152**

**Moderator:** Thomas John, MD*

**Panelists:** Edwin S. Chen, MD
Ronald N. Gaster, MD, FACS*
Neda Shamie, MD*

**8:01** Confocal and Biomechanical Properties of Corneal Allografts After Descemet-off Versus Descemet-on Deep Anterior Lamellar Keratoplasty
Hamidreza Hasani, MD

**8:06** Clinical Outcomes Before and After Removal of Sutures for DALK With Big-Bubble Technique
Alaa M. El-Danasoury, MD*

**8:11** Descemet-on Versus Descemet-off Deep Anterior Lamellar Keratoplasty
Hamidreza Hasani, MD

**8:16** Outcomes of Deep Anterior Lamellar Keratoplasty for Spheroidal Degeneration
Ashish Nagpal, MD, FRCS

**Discussion**

**8:26** Hydrated Dextran-Free Donor Tissue: Perfect Graft for Ultra-Thin DSAEK
Paolo Santorum, MD
Coauthors: Silvana A. Madi, MD,*
Massimo Busin, MD,*
Jacqueline Beltz, MBBS, FRANZCO,*
Amit Patel, MB BCh, FRCOphth,*
Vincenzo Scorcia, MD*

**8:31** Analysis of Postoperative Graft Detachment and Donor Tissue Thickness and Quality in DSEK Compared With Combined DSEK-Cataract Surgery
Adrian W. Jachens, MD
Coauthors: Sukru S. Dogan, MD,* Sandhya Iyer, MD,*
Venkateswara V. Mootha, MD,*
Robert W. Bowman, MD*

**8:36** Evaluation of New Technique: Pre-Descemet Endothelial Keratoplasty
Soosan Jacob, FRCS, MS
Coauthor: Amar Agarwal, FRCS*

**8:41** Impact of Donor Characteristics on 2-Year DSEK Outcomes in Fuchs Dystrophy Patients
Nadia Hesham, MD
Coauthors: Robert L. Schultze, MD,*
Robert A. Eden, MD*

**8:46** Price Modification to Siepser Slipping Suture Technique for Iris Repair With Endothelial Keratoplasty
Evan D. Schoenberg, MD
Coauthor: Francis W. Price Jr, MD*

**Discussion**

**8:56** Fellow Eye Comparison of DMEK and DSAEK: Corneal Perspective
Yakov Goldich, MD
Coauthors: Noa Avni-Zauberman, MD,*
Pichaporn Artornsombudh, MD,*
David S. Rootman, MD, FRCSC*

**9:01** Ultra-Thin DSAEK Versus DMEK: Comparing Visual Results and Complications in Patients With 1 of Each
Mark A. Terry, MD*
Coauthors: Cor van Zyl, FC Ophth (SA),*
Michael D. Straiko, MD,* Peter B. Veldman, MD,*
Zachary M. Mayko, MS*

**9:06** Evaluation of New Technique for Preparation of Endothelial Grafts for DMEK
Ashley R. Brissette, MD
Coauthors: Ronan J. Conlon, MD,*
Season Tse Wing Yeung, MBBS, FRANZCO,
Joshua C. Teichman, MD, MPH, Salina Teja, MD,*
Kashif Baig, MD, MBA*

**9:11** Predictability of Postoperative Corneal Astigmatism in DMEK: Advisability of Toric IOL Implantation at Time of DMEK
Peter B. Veldman, MD
Coauthors: Michael D. Straiko, MD,*
Zachary M. Mayko, MS,* Cor van Zyl, FC Ophth (SA),*
Mark A. Terry, MD*

**Discussion**

*Denotes financial interest; see Financial Interest Index for full listing
**Cornea**

**Endothelial Cell Count, Corneal Anatomy**

8:00–9:30 AM  
*Room 154*

**Moderator:** Clara C. Chan, MD, FRCS*C*

**Panelists:**  
Mohamed Abou Shousha, MD, PhD  
W. Barry Lee, MD*C*  
Rajesh K. Rajpal, MD+C*

**8:01**  
Repeatability and Accuracy for Detecting Ectatic Diseases of Corneal Epithelial Thickness Measurements From Fourier-Domain OCT

Ana Laura C. Canedo, MD  
Coauthors: Rosane Correa, MD,*  
Fernanda T. Zaganelli de Barcellos, MD,*  
Renato Ambrósio Jr, MD, PhD*

**8:06**  
Keratoconus and Keratoconus Suspect Classification Modeling Using Scanning-Slit Videokeratography

Mujtaba A. Qazi, MD*C*  
Coauthors: Pete Kollbaum, OD, PhD,*  
Michael D. Twa, OD, PhD,* Cynthia J. Roberts, PhD,*  
Jay S. Pepose, MD, PhD,* Ashraf M. Mahmoud, BS*

**Discussion**

**8:23**  
Effect of Eyelid Surgery on Corneal Topography

Vasudha A. Panday, MD  
Coauthors: Charisma Evangelista, MD,*  
Brett Davies, MD,* Randy Mauffray, MD*

**8:28**  
Change of Anterior Corneal Astigmatism and Posterior Corneal Astigmatism With Aging and After Cataract Surgery

Ja Young You, MD  
Coauthors: Gyule Han, MD,* Eui Sang Chung, MD,*  
Tae Young Chung, MD*

**Discussion**

**8:45**  
Correlation of Stage of Keratoconus and Corneal Endothelial Count and Morphology: Specular Microscopic Study

Mohamed-Sameh H. El-Agha, MD, FRCS(Ed)*  
Coauthors: Yasmine M. El Sayed, MD, MRCS(Ed)*  
Rana M. Harhara, MD*

**8:50**  

Olivia L. Lee, MD*C*  
Coauthors: Cristina Modak, PhD,*  
Jyotsna Maram, PhD,* Vikas Chopra, MD*

**8:55**  
Alteration in Corneal Spherical Aberration After Myopic LASIK Procedure

Ashok Kumar P. Shroff, MD  
Coauthors: Hardik A. Shroff, MD,*  
Dishita H. Shroff, MD*

**9:00**  
Clinical Feasibility and Repeatability of Ocular Straylight Measurement in Crosslinked Eyes

Ioanna Kontari, MD  
Coauthors: Sophia Bourdou, RN,*  
A. John Kanellopoulos, MD*

**Discussion**

### Russian Papers (Presented in Russian)

8:00–9:30 AM  
*Room 155*

**8:00**  
Welcome Remarks to Russian Delegates

Eric D. Donnenfeld, MD*C*  
Elena Vialova, MD

**8:03**  
Cataract Surgery in Patients With Congenital Iris Coloboma

Boris E. Malyugin, MD, PhD*

**8:08**  
Expulsive Hemorrhage During Cataract Surgery: Modern Manifestations and Outcomes

Zinaida Kataeva, MD  
Coauthors: Oleg V. Shilovskikh, MD, Igor Idov, MD, Pavel Rylov, MD

*Denotes financial interest; see Financial Interest Index for full listing
8:13  Structural Changes of Clear Corneal Incision Due to Straining and Temperature Alternation in MICS
Yuri Takhtaev, MD
Coauthors: Serge Y. Takhtaev, MD, Ksenia Boiko

8:18  Endothelial Cell Loss After Bimanual Torsional Phacoemulsification and Microcoaxial Torsional Phacoemulsification
Sergey V. Shukhaev, MD
Coauthor: Yuri Takhtaev, MD

8:23  Aberrometry Changes and IOL Decentration
Alla Varavka, MD

8:28  Russian Technique of Laser Cataract Extraction With Nd-YAG 1.44 μm
Valentina G. Kopayeva, MD, PhD
Coauthor: Sergey Y. Kopayev, MD, PhD

8:33  Prospective Visual Outcomes and Optical Performance of Gradient Refractive Index Multifocal IOL
Tatyana Morozova, MD, PhD
Coauthor: Boris E. Malyugin, MD, PhD*

8:38  One-Year Experience of Presbyopia Correction With Monovision Approach in Surface Ablation Using Multifocal Bi-Aspheric Ablation Profile
Erika N. Eskina, MD*
Coauthor: Pavel Rybakov*

8:43  Clinical Outcomes of Posterior Chamber Phakic IOL Sized Using Ultrasound Biomicroscopy and Anterior Segment Optical Coherence Tomography
Dmitry F. Pokrovskiy, MD, PhD
Coauthors: Boris E. Malyugin, MD, PhD,*
Alexander A. Shpak, MD, PhD

8:48  Analysis of Transepithelial PRK Efficiency for Middle-Degree Myopia Correction
Andriy Petrunya, MD
Coauthors: Alexandr Spektor, MD, Olga A. Yevsyukova, MD

8:53  Moderate and High Myopia Correction Using Transepithelial PRK Treatment
Erika N. Eskina, MD*

8:58  Topography-Guided PRK After Intrastromal Corneal Ring Segment Implantation Followed by CXL in Keratoconus Patients
Alexander V. Doga, MD, PhD
Coauthors: Yuri Kishkin, MD, PhD, Svetlana Izmaylova, MD, PhD,
Ekaterina Brachevskaya, MD

9:03  Comparison of Thickness of LASIK Flap Created by Mechanical Microkeratome and Femtosecond Laser
Bulat Aznabaev, DSc*
Coauthors: Timur Mukhamadeev, MD,*, Tagir Dibaev, MD, Vadim Makhmutov, MD

9:08  Femtosecond Corneal Lenticule Extraction Compared With Conventional LASIK in Refractive Surgery
Oleg Kostin, MD
Coauthors: Sergey V. Rebrikov, MD, Alexander Ovchinnikov, MD, Alexey Stepanov, MD

9:13  Short- and Mid-Term Results of Schlemm Canal Dilation Using Novel Stainless Steel Spiral Intracanalicular Device to Treat Open-Angle Glaucoma
Galina N. Dushina, MD
Coauthors: Elena V. Bozhok, MD, Vinod Kumar, MD, PhD, Mikhail A. Frolov, MD, PhD

9:18  Challenges Encountered by Ophthalmologists in Large Populations of Russian Immigrants
Igor Benenson, DO, MD

*Denotes financial interest; see Financial Interest Index for full listing
**Symposium: X-Rounds: Refractive Cataract Surgery to the Max**

**10:00–11:30 AM**

*Grand Ballroom*

**Moderator:** Eric D. Donnenfeld, MD*

**Panelists:**
- David F. Chang, MD*
- Steven J. Dell, MD*
- Stephen S. Lane, MD*
- Richard L. Lindstrom, MD*
- Stephen G. Slade, MD*
- Kerry D. Solomon, MD*
- Roger F. Steinert, MD*

Learn the latest and the greatest in refractive cataract surgery in a fast-paced session with leading surgeons discussing new advances in cataract surgery, refractive IOLs, and case management. The panel will facilitate discussion of important refractive cataract issues facing today’s ophthalmologist highlighted by femtosecond cataract surgery. Audience response keypads will be used to further discussion among faculty and attendees.

**CORNEA Pathology, Biomechanics**

**4-F**

**10:00–11:30 AM**

*Room 151A*

**Moderator:** William J. Dupps Jr, MD, PhD*

**Panelists:**
- Jack V. Greiner, DO, PhD*
- Marianne O. Price, PhD*
- Mujtaba A. Qazi, MD*

10:01 Analyzing the Association of Ambient Solar Radiation on Biomechanical Properties of Cornea in Adult Patients: Alien or Population-Based Study

*Cédric Schweitzer, MD*

Coauthors: David Touboul, MD,*
Ashraf M. Mahmoud, BS,* Cynthia J. Roberts, PhD*

10:06 New System for Measurement of Biomechanical Properties of Eye

*Rajesh K. Rajpal, MD*

Coauthors: Amit S. Paranjape, PhD,*
Marc D. Friedman, PhD,* David F. Muller, PhD*

10:11 Corneal Biomechanical Properties in Keratoconic, Myopic, and Hypeopic Eyes as Measured With Scheimpflug-Based Tonometer

*David Zadok, MD*

Coauthor: Nadav Shoshany, MD*

**Discussion**

10:26 Outcomes of Phototherapeutic Keratectomy for Bullous Keratopathy

*Elsie Chan, MBBS, FRANZCO*

Coauthor: Grant R. Snibson, MD*

**Discussion**

10:31 Outcome of Excimer Laser Phototherapeutic Keratectomy for Recurrent Corneal Erosions

*Johnson Tan, MBBS, FRCSEd (Ophth)*

Coauthors: Simon P. Holland, MB, FRCSC,*
David T. Lin, MD, FRCSC*

**Discussion**

10:46 Effect of Targeted Disruption of Profibrotic SMAD-Signaling Pathway on Myofibroblasts and Corneal Haze

Lisa L. Leishman, MD

Coauthors: Rajiv R. Mohan, PhD,*
Jason T. Rodier, MD,* Ajay Sharma,*

10:51 Effect of Ultra-Weak Complex Magnetic-Electric Fields CMF on the Morphology, Structure, and Sensitivity of the Cornea

Pier Domenico D’Andrea, MD

**Discussion**

10:56 Quantifying Cytokines in Tears After Corneal Surface Surgery

Fortino Velasco, MD

11:01 Characterization of Corneal Features in Ocular Graft Versus Host Disease by in Vivo Confocal Microscopy

Tudor C. Tepelus, PhD

Coauthors: Gloria B. Chiu, OD,* Jyotsna Maram, PhD,*
Vikas Chopra, MD,* Olivia L. Lee, MD*

**Discussion**

*Denotes financial interest; see Financial Interest Index for full listing*
INTRAOCULAR SURGERY

Power Calculations

10:00–11:30 AM  Room 151B
Moderator: Kenneth J. Hoffer, MD*
Panelists: Jason P. Brinton, MD
Nicole R. Fram, MD*
Anita Nevyas-Wallace, MD*

10:01 Accuracy of IOL Power Calculation Using Intraoperative Aberrometry System Compared With Holladay 2 Formula
Nausheen Abbas, MD
Coauthors: Mala Krishnamoorthy, BS,*
Robert L. Schultze, MD*

10:06 Update of Adjustable IOL Power Technologies
Nick Mamalis, MD*
Coauthors: Liliana Werner, MD, PhD,*
Joshua R. Ford, MD*

10:11 Preop Prediction and Postop Determination of Actual Lens Position for Bi-Aspheric IOL Using High-Frequency Ultrasound: Final Results
Paul J. Harton Jr, MD, PharmD
Coauthor: Jack T. Holladay, MD, MSEE*

10:16 Introduction to Universal IOL Calculator-Toric
Samir I. Sayegh, MD, PhD
Coauthor: David Hjelmstad*

10:26 Accuracy of IOL Power Calculation in Eyes After Refractive Surgery Using Ray Tracing and C-Constant for Prediction of IOL Position
Peter Jeppesen, MD, PhD
Coauthor: Thomas Olsen, PhD, MD*

10:31 Improved Outcomes in Post-LASIK IOL Power Prediction Using Intraoperative Refractive Biometry: Comparative Effectiveness Series of 246 Eyes
Tsontcho Ianchulev, MD, MPH*
Coauthors: David F. Chang, MD,* Sonia H. Yoo, MD*

10:36 Optical Coherence Tomography for IOL Power Calculation in Eyes With Prior Radial Keratotomy
Li Wang, MD, PhD*
Coauthors: Emily Waisbren, MD,*
Maolong Tang, PhD,* David Huang, MD, PhD,*
Douglas D. Koch, MD*

10:41 Evaluation of Methods to Improve Accuracy of IOL Calculations in Long Eyes
Mitchell P. Weikert, MD*
Coauthors: Li Wang, MD, PhD,* Douglas D. Koch, MD*

10:46 Retrospective Analysis of Prediction Error of IOL Calculation in Large Population of Post-Myopic LASIK Patients Having Cataract Surgery
Stephen F. Brint, MD*

10:51 Intraocular Lens Power Calculations in Eyes With Prior Hyperopic LASIK or PRK
Eric B. Hamill, BA
Coauthors: Li Wang, MD, PhD,*
Bruna V. Ventura, MD,* Warren E. Hill, MD,*
Hayley K. Chopra,* Douglas D. Koch, MD*

Discussion

11:01 Multicenter Evaluation of Intraoperative Aberrometry-Assisted IOL Power Selection Using Streaming Refractive Data
Robert J. Cionni, MD*

11:06 Impact of Wavefront Aberrometry, Algorithm Optimization, and Device Standardization on Acuity Potential in Premium Refractive Cataract Surgery
Alice Zhu
Coauthor: Joseph J. Ma, MD*

11:11 Comparison of Corneal Astigmatism in Cataract Eyes Obtained From Intraoperative Aberrometry and From Other Devices
Sumitra Khandelwal, MD
Coauthors: Bruna V. Ventura, MD,*
Douglas D. Koch, MD,* Li Wang, MD, PhD*

*Denotes financial interest; see Financial Interest Index for full listing
10:16 Use of Intraoperative Aberrometry to Increase Precision of Femtosecond Laser Arcuate Incisions
Erfan J. Nadji, MD

Discussion

INTRAOCULAR SURGERY
Phakic IOLs
10:00–11:30 AM
Moderator: Douglas D. Koch, MD*
Panelists: Mark Tomalla, MD
Abhay R. Vasavada, MS, FRCS*
Vaishali Vasavada, MS*

10:01 Optimized Phakic IOL Calculations
John R. Moran, MD, PhD*

10:06 Vaulting of Collagen Copolymer IOL as Indicator of Accurate White-to-White Measurement
Swapna Nair, FRCS

10:11 Keratoconus Management With ICL and Toric ICL Posterior Chamber Phakic IOL
Keiki R. Mehta, MS, DO, FIOS
Coauthor: Cyres K. Mehta, MD, MCH*

Discussion

10:31 Clinical Outcomes of Posterior Chamber Phakic IOL Sized Using Ultrasound Biomicroscopy and Anterior Segment Optical Coherence Tomography
Dmitry F. Pokrovskiy, MD, PhD
Coauthors: Boris E. Malyugin, MD, PhD,*
Alexander A. Shpak, MD, PhD*

10:36 Posterior Chamber Phakic Collamer Copolymer IOL Outcomes With at Least 1-Year Follow-up
Erik L. Mertens, MD, FEBOphth*

10:41 Analysis of Visual Outcome in Patients With Laser Refractive Surgery in 1 Eye and Collagen Copolymer IOL in the Fellow Eye
Lakshmipathy R. Srinivasan, MBBS, DO

Discussion

10:46 Incidence of Removal or Replacement of Copolymer Phakic IOLs Due to Inadequate Vault or Cataract in Eyes Using FDA Product Labeling
Howard V. Gimbel, MD

10:51 Comparison of Optical Quality and Intraocular Scattering After Hole-Collagen Copolymer IOL and Conventional Collagen Copolymer IOL Implantation Using Double-Pass Instrument
Kimia Shimizu, MD, PhD*
Coauthors: Kazutaka Kamiya, MD, PhD,*
Akihito Igarashi, MD*

Discussion

Symposium: The Best of the ASCRS
(Presented in Spanish)
1:00–2:30 PM

Sponsored by the Latin American Society of Cataract and Refractive Surgeons–ALACCSA-R (LASCRS)

Moderators: Carlos L. Nicoli, MD
Virgilio Centurión, MD*
Miguel Padiilha, MD

Glaucoma
Jaime Macías Martínez, MD
Rafael Castañeda, MD
Arturo Maldonado-Junyent, MD

Cataract
Santiago García Arroyo, MD
Carlos M. Nicoli, MD
Edgardo Carreño Jr, MD

Refractive
Narly Ruiz-Quintero, MD
Sebastián Onnis, MD
Crisanti Stangogiannis-Druya, MD

Cornea
Enrique O. Graue-Hernández, MD
Valeria Sánchez-Huerta, MD
Bruna Ventura, MD

New Technology
Evangelia Stangogiannis-Druya, MD
Sebastián Onnis, MD
Crisanti Stangogiannis-Druya, MD

Best of the ESCRS
Fernando L. Soler, MD
Oscar V. Asís, MD

Panel and Audience Discussion

*Denotes financial interest; see Financial Interest Index for full listing
INTRAOCULAR SURGERY
Femtosecond Laser
1:00–2:30 PM Room 151A
Moderator: Jason J. Jones, MD*
Panelists: Gerd U. Auffarth, MD*
Richard M. Awdeh, MD*
Mounir A. Khalifa, MD, PhD*
1:01 Quantitative Comparison of Clear Corneal Incisions: Femtosecond Cataract Laser Versus Manual Keratome Using Anterior Segment Optical Coherence Tomography
Supported by a grant from the ASCRS Foundation
Dilraj S. Grewal, MD Coauthor: Surendra Basti, MD*
1:06 Endothelial Cell Count and Central Corneal Volume in Conventional Phacoemulsification Compared With Femtosecond Laser–Assisted Surgery
Georgina Givaudan-Pedroza, MD Coauthors: Lourdes Fernandez,*, Susana M. Peniche, MD,* Karime Pérez Bailón, MD*
1:11 Refractive Outcomes With Single-Piece Aspheric IOL After Phacoemulsification Versus Femtosecond Laser–Assisted Cataract Surgery
Zainab Khan, MD Coauthors: Gurinder P. Sanghera, MD, FRCSC,* Baseer Khan, MD, FRCSC*
1:26 Minimizing Complications in Intumescent White Cataracts: Comparison of Manual and Femtosecond Laser–Assisted Capsulotomy
Ina Conrad-Hengerer, MD Coauthors: H. Burkhard Dick, MD,* Thomas Kohnen, MD, PhD,* Fritz Hengerer, MD*
1:31 Facilitation of Difficult Cataract Surgery With Femtosecond Cataract Laser
William W. Culbertson IV, MD* Coauthors: Sonia H. Yoo, MD,* Juan F. Batlle, MD*
1:36 Use of Femtosecond Laser to Aid in Cataract Surgery for Anterior Subcapsular Cataract
Elizabeth R. Richter, MD, PhD Coauthor: Matthew J. Nutaitis, MD*
Discussion
1:51 Evaluation of New Patient Interface in Femtosecond Laser–Assisted Cataract Surgery
Kenichiro Yamazaki, MD Coauthors: Tatsuya Mimura, MD, PhD,* Ayako Tsuchiya, MD*
1:56 Femtosecond Laser–Assisted Cataract Surgery and Its Learning Curve
Erik L. Mertens, MD, FEBOpht*
2:01 Art of Perfection: Early Egyptian Experience With Femtosecond Laser–Assisted Cataract Extraction
Osama M. Al Nahrawy, MD Discussion

INTRAOCULAR SURGERY
Presbyopia–Correcting IOLs
1:00–2:30 PM Room 151B
Moderator: Alan S. Crandall, MD*
Panelists: John R. Moran, MD, PhD* R. Bruce Wallace III, MD* William F. Wiley, MD*
1:01 Elimination of Hazy Vision: Diffractive IOL Insertion With Posterior Continuous Curvilinear Capsulorhexis
Masayuki Ouchi, MD, PhD
1:06 Clinical Evaluation of Aberration-Corrected Pure Diffractive MIOL in Toric and Nontoric Versions
Florian T. Kretz, MD* Coauthors: Anna Fitting, MSc,* Ramin Khoramnia, MD,* Gerd U. Auffarth, MD*
Discussion

*Denotes financial interest; see Financial Interest Index for full listing
1:11 Influence of Add Power on the Optical Characteristics of Diffractive Multifocal IOLs
Michelle Langeslag, MSc*
Coauthors: Henk Weeber, PhD,*
Daniel H. Chang, MD,* Patricia A. Piers, PhD*

1:16 Changes in Cut Surface and Weight of Colored Acrylic IOLs After Severe Accelerated Deterioration Test
Kenji Kawai, MD, PhD*

Discussion

1:26 Presbyopia Correction by Femtosecond Laser–Assisted Cataract Surgery With Trifocal IOL
Mark Tomalla, MD

1:31 Piggyback Intracapsular Multifocal and Toric IOLs
Linda Huang, MD
Coauthors: Hadley Phillips, DO,* Jeffrey T. Liegner, MD*

Discussion

1:41 Relationship of Angle Kappa With Diffractive Multifocal IOL Centration and Visual Acuity
Daniel H. Chang, MD*

1:46 Evaluation of Depth of Focus of IOL Designs
Henk Weeber, PhD*
Coauthors: Daniel H. Chang, MD,* Patricia A. Piers, PhD*

1:51 Effect of Multifocal IOL Implantation on Life Quality of Patients With Traumatic Cataract
Guangying Zheng, MD
Coauthors: Yue Liu, PhD,* Dong Xu,* Lili Hao*

Discussion

2:01 Light-Adjustable Lens: Clinical Results and Case Reports
Robert P. Rivera, MD*
Coauthors: Robert K. Maloney, MD,*
Doyle Stulting, MD, PhD,* T. Hunter Newsom, MD,*
Vance M. Thompson, MD,* Kevin L. Waltz, OD, MD,*
Light-Adjustable Lens FDA Study Group*

2:06 Light-Adjustable Lens: Pre-Adjustment Versus Post-Adjustment Visual and Refractive Results
Doyle Stulting, MD, PhD*
Coauthors: Robert K. Maloney, MD,*
Steven D. Vold, MD,* Kevin L. Waltz, OD, MD,*
Robert P. Rivera, MD,* T. Hunter Newsom, MD,
Light-Adjustable Lens FDA Study Group*

2:11 Aspheric Near Vision Solution Outcomes With Light-Adjustable IOL
Arturo S. Chayet, MD*

Discussion

Hot Off the Press
GS-4
3:00–4:30 PM
Grand Ballroom
Moderator: David F. Chang, MD*
Panelists: Graham D. Barrett, FRANZCO*
Reay H. Brown, MD*
Clara C. Chan, MD, FRCSC*
Eric D. Donnenfeld, MD*
Bonnie An Henderson, MD*

Presenters: Husam Ansari, MD, PhD*
John P. Berdahl, MD*
Bennie H. Jeng, MD*
Boris E. Malyugin, MD, PhD*
Susan MacDonald, MD

This session will encompass a free-flowing panel discussion by the specialty section editors of EyeWorld, who will highlight and debate the Best Papers of ASCRS 2014.

*Denotes financial interest; see Financial Interest Index for full listing
26-301
Strategies for Successful Management of Patients Unhappy With Visual Results of Their Premium IOL
Thomas M. Harvey, MD*
Faculty: Surendra Basti, MD,* Mitchell P. Weikert, MD,* David F. Chang, MD,* George O. Waring IV, MD, FACS*
Course will provide a systematic approach to determine the likely cause of a patient’s dissatisfaction with the visual outcome of their premium IOL. Specific case examples with each of the currently available premium IOLs will be provided to highlight management strategies. Techniques to exchange these IOLs will be reviewed.

26-302
Advanced IOL Power Calculations for Cataract and Refractive Surgeon
Jack T. Holladay, MD, MSEE*
Course will cover IOL power calculations in standard and complicated cases, such as patients with a scleral buckle, silicone in the vitreous, previous refractive surgery, piggy-back IOLs in nanophthalmos, positive and negative secondary piggy-back IOLs, and specialty lenses, such as multifocal and toric IOLs.

26-303
Simple and Safe Endothelial Keratoplasty (DSAEK and DMEK) and DALK Surgery to Avoid Complications and Enhance Results
Mark A. Terry, MD*
Faculty: Michael D. Straiko, MD,* Neda Shamie, MD,* Paul M. Phillips, MD
Course uses extensive videos of DSAEK and DMEK techniques (including tissue injectors) and gives results from the largest prospective series in the world. Minimizing the learning curve to avoid complications inEK (especially DMEK) will be stressed. Easier DALK surgery techniques for keratoconus and scars will also be presented.

26-304
Femtosecond Laser–Assisted Refractive Cataract Surgery
Richard M. Awdeh, MD*
Faculty: Eric D. Donnenfeld, MD,* Stephen Slade, MD,* Steven J. Dell, MD,* William W. Culbertson IV, MD,* Ronald R. Krueger, MD, MSE,* William B. Trattler, MD,* Aylin Kilic, MD
Course will feature presentations on how to safely and effectively incorporate femtosecond cataract surgery into one’s practice, combining both didactic lectures and interactive panel discussions. The faculty will provide details on patient selection and surgical techniques, with emphasis on precision capsulorhexis formation, self-sealing wound creation, lens fragmentation, and astigmatism correction.

26-305
Ultimate MIGS Triple Procedure
Parag Parekh, MD, MPA*
Faculty: Nathan M. Radcliffe, MD,* Robert J. Noecker, MD, MBA*
Course will include a panel discussion/debate about the pros and cons of the new ICE (iStent+Cataract+ECP) triple procedure and its place in the glaucoma treatment paradigm.

26-306
Presbyopia: Options of Surgical Treatment (Sponsored by ALACCSA-R; presented in Spanish)
María José Cosentino, MD
Faculty: Luis Izquierdo Jr, MD, L. Felipe Vejarano, MD, Enrique J. Suarez, MD, Cesar C. Carriazo, MD,* Virgilio Centurión, MD,* Roberto Zaldivar, MD*
Course will present different techniques for surgical correcting presbyopia from the cornea to the lens. Critical situations and potential solutions will also be discussed.

26-307
Comprehensive Strategy for Unplanned Vitrectomy Technique for Anterior Segment Surgeon
Lisa B. Arbisser, MD*
Faculty: Michael J. Howcroft, MD*
Course will use videos to discuss prevention, early recognition, damage control, and specific actions to achieve optimal outcomes in cataract surgery complicated by vitreous presentation from anterior and pars plana approaches.
**ASCRS Program—Courses**

**26-308**

**Phaco Fundamentals**

*Gary Foster, MD*

Faculty: *Rosa M. Braga-Mele, MD, FRCSC,* *Uday Devgan, MD,* *Bonnie An Henderson, MD,* *Nick Mamalis, MD,* *Lisa Park, MD,* *Kenneth J. Rosenthal, MD,* *Abhay R. Vasavada, MS, FRCS*

Course will help phaco surgeons rise to the next level. It will focus on the fundamentals of phaco—how settings, fluidics, and techniques work for or against great surgery. Legendary coach John Wooden said, “The player who learned the fundamentals . . . is going to have a much better chance of succeeding and rising though the levels . . . A player should be interested in learning why things are done a certain way.”

**26-309**

**Phaco Nightmares and Worst Case Scenarios: Video-Based Course**

*Amar Agarwal, FRCS*

Faculty: *Athiya Agarwal, MD, David F. Chang, MD,* *Robert H. Osher, MD*

Course will include topics such as posterior capsule ruptures, glued IOL, dropped nuclei, endocapsular rings, and vitreous loss, which can cause the surgeon to have sleepless nights. Managing nightmares such as subluxated cataracts and posterior polars are a daunting challenge and will be covered.

**26-310**

**Use of Surgical Adhesives and Amniotic Membrane in Ocular Surgery**

*John A. Hovanesian, MD*

Faculty: *David R. Hardten, MD,* *Amar Agarwal, FRCS,* *Stephen C. Kaufman, MD, PhD*

Course will present techniques for fibrin and other surgical adhesives as well as amniotic membrane in pterygium/autograft, pterygium/amniotic membrane, conjunctival chalasis treatment, LASIK epithelial ingrowth removal, cataract surgery, secondary PCIOL implantation, ocular surface reconstruction with amniotic membrane, and lamellar corneal transplants. Experienced instructors will review pearls, practical tips, and pitfall avoidance.

**26-401**

**Surgical Correction of Presbyopia With Hydrogel Corneal Inlay: Profocal Mechanism of Action, Visual Outcomes, and Patient Satisfaction**

*Paul J. Dougherty, MD*

Faculty: *Roger F. Steinert, MD,* *Yasuda Kazuomi, MD,* *Beatrice Cochener, MD, PhD,* *José L. Güell, MD,* *Enrique Barragan, MD*

Course will offer a concise review of the elements leading to successful presbyopia correction with a hydrogel corneal inlay.

**26-402**

**Phacoemulsification in Difficult and Challenging Cases**

*Richard S. Hoffman, MD*

Faculty: *Rosa M. Braga-Mele, MD, FRCSC,* *Ike K. Ahmed, MD,* *Leonardo Akaishi, MD, Alan S. Crandall, MD,* *I. Howard Fine, MD, Robert H. Osher, MD,* *Israel Rozenberg, MD, Michael E. Snyder, MD,* *Roger F. Steinert, MD*

Course will cover a rational approach to phacoemulsification in the presence of advanced nuclear sclerosis, IFIS, subluxated lenses, zonular defects, and other assorted challenging cases using both didactic presentations and video.

**26-403**

**Endothelial Keratoplasty—Mastering DSEK/DMEK/PDEK (Pre-Descemet Endothelial Keratoplasty): Video-Based Course**

*Ashvin Agarwal, MD*

Faculty: *Anthony J. Aldave, MD,* *Sadeer B. Hannush, MD,* *Amar Agarwal, FRCS,* *Soosan Jacob, FRCS, MS,* *Yuri McKee, MD,* *Athiya Agarwal, MD, Massimo Busin, MD*

Course will cover all there is to know about DSEK and DMEK. The new surgical procedure of Pre-Descemet’s Endothelial Keratoplasty (PDEK) will also be taught. Problems and their solutions for the surgeon will be explained.
26-404  Room 253C

Mastering Transepithelial and Epi-Off Corneal Collagen Crosslinking for Keratoconus and Post-LASIK Ectasia
Roy S. Rubinfeld, MD*


Course will identify appropriate candidates for corneal collagen crosslinking (CXL) and methods to optimize epi-on and epi-off CXL, as well as when to use higher UV energy levels. Additional treatment options, such as topo-guided PRK and intrastromal corneal ring segments will be reviewed. Techniques to reduce the risk for CXL will be described.

26-405  Room 254AB

Intraocular Lens Exchange
Samuel Masket, MD*

Faculty: Nicole R. Fram, MD, * Sadeer B. Hannush, MD, Marie José B. Tassignon, MD, PhD, * Basak Bostanci Ceran, MD

Course will discuss indications for and methods of intraocular lens exchange. Tools of the trade will be demonstrated. Various means for IOL fixation, including scleral and iris suturing and glued IOL methods will be considered.

26-406  Room 257AB

Lords of the Rings and Hooks: What’s New
Gaurav Luthra, MS*

Faculty: David Chao-Kai Chang, MD, PhD, Robert J. Cionni, MD, * Ike K. Ahmed, MD, * Boris E. Malyugin, MD, PhD, * Amar Agarwal, FRCS, * Ramamurthy Dandapani, MD, Kumar J. Doctor, MD, Robert H. Osher, MD*

Video-assisted course will highlight indications, limitations, and techniques for various new rings, hooks, and other devices to overcome challenging situations in cataract surgery. Devices including rings (endocapsular/segments/pupil expansion) and hooks (iris/capsular) and their correct technique will be demonstrated in challenging situations such as subluxated cataract, small pupils, floppy iris, zonular dehiscence, and aniridia.

26-407  Room 258A

Iris Suture Repair and IOL Fixation
Steven B. Siepser, MD, FACS*

Faculty: Devesh K. Varma, MD, FRCSC,* Kevin M. Miller, MD, * Ike K. Ahmed, MD, * Michael E. Snyder, MD*

Course will cover a progression of complexity to take participants from a level of inexperience to a working knowledge of various iris suture repair and IOL fixation techniques. It will feature the direct clear corneal approach using the McCannel type approach of over-the-site intervention methods to indirect techniques for IOL stabilization and iris repair will also be covered.

26-408  Room 258B

Achieving Proper Centration and Alignment in Intraocular and Keratorefractive Surgery
Daniel H. Chang, MD*

Faculty: George O. Waring IV, MD, FACS,* John P. Berdahl, MD*

Course will demonstrate centration and alignment of intraocular and keratorefractive devices. Interpretation of topography in the context of angle kappa will be presented. Techniques for aligning and centering diffractive multifocal IOLs, toric IOLs, and corneal inlays will be discussed in a lecture and video-based format.

26-409  Room 258C

Posterior Capsule Rupture and Zonular Dialysis Management
Haripriya Aravind, MD

Faculty: Mathew K. Kummelil, MD, David M. Lubeck, MD,* Minu Mathen, MD, Abhay R. Vasavada, MS, FRCS*

Course will review the management of posterior capsule rupture including technique and settings for limbal and pars plana vitrectomy, nucleus management, cortical cleanup and IOL placement in eyes with compromised capsule support. Surgical videos and lectures will also highlight the recognition and management of zonular dialysis including CTR implantation.
26-410  
**Pediatric Cataract and IOL Surgery: Current Practices and Controversies**  
Vidushi Sharma, MD, FRCS  
Faculty: Suresh K. Pandey, MD, Abhay R. Vasavada, MS, FRCS,*  
Marie José B. Tassignon, MD, PhD,* Rupal H. Trivedi, MD  
Lecture and video-based course will review current surgical practices of pediatric cataract surgery with emphasis on timing of surgery, IOL power calculation, posterior capsule management, and pearls for managing challenging cases. Controversies such as implantation of IOL in infants and simultaneous bilateral pediatric cataract surgery will be discussed.

**Sunday, April 27**  
8:00–9:30 AM

27-101  
**Neurotoxins and Dermal Fillers: Update for Aesthetically Minded Ophthalmologist**  
Steve G. Yoelin, MD*  
Course will discuss the use of neurotoxins and dermal fillers/collagen stimulators for facial aesthetic enhancement from an ophthalmologist’s perspective. This program is designed for beginning as well as more experienced practitioners and will use videos to demonstrate techniques.

27-102  
**Refractive Outcome of Keratoconus Treatment**  
Mahmoud M. Ismail, MD, PhD  
Faculty: Amar Agarwal, FRCS,* Tarek Abdel Wahab, MD, Renato Ambrósio Jr, MD, PhD*  
Course will discuss the key points of proper keratoconus diagnosis, which influences the management decision. Different modalities of surgical approaches will be discussed, as well as how to avoid their complications. Attendees should be able to select the proper surgical approach in keratoconus cases.

27-103  
**Collagen Crosslinking: Evolving Indications and Technology, Applications, Results, and Complication Management**  
A. John Kanellopoulos, MD*  
Faculty: Doyle Stulting, MD, PhD,* Gregory J. Pamel, MD, Alaa M. El-Danasoury, MD,* José L. Güell, MD*  
Course will cover the management of ectasia (keratoconus/post-refractive surgery). Surgical treatment modalities used internationally will be presented, including CXL with UVA combined with customized excimer ablation and topography-customized CXL applications. These alternatives to intracorneal ring implantation, lamellar graft, and penetrating graft will be analyzed. Early and late complications will be discussed.

27-104  
**Optimal Care of Meibomian Gland Dysfunction and Evaporative Dry-Eye Patient in Busy Surgical Practice**  
Alan N. Carlson, MD*  
Faculty: Marguerite B. McDonald, MD,* Preeya K. Gupta, MD,* Frank W. Bowden, II, MD*  
Course will explore ways of managing the evaporative dry-eye patient using advanced technology for assessing and treating meibomian gland dysfunction. Learn how surgeons successfully integrate the latest technologies in dry-eye management with minimal disruption to current patient flow.

27-105  
**Co-Management Essentials and New Concepts**  
Kevin L. Waltz, OD, MD*  
Faculty: Kevin J. Corcoran, COE, CPC,* Damon Dierker, OD, FAAO  
Course will describe co-management requirements and a brief overview of their historical development. It will also present new concepts created by premium IOLs and femtosecond lasers. Case studies of real situations will be used to illustrate and explain the controversies.
**27-106**  
**Room 257AB**  
**Femto in the Cataract Practice: Advancements, Benefits, and Adjustments to Adopting Laser-Assisted Cataract Surgery**  
George O. Waring IV, MD, FACS*  
Faculty: William F. Wiley, MD,* Brandon D. Ayres, MD,* Robert P. Rivera, MD,* Jeremy Z. Kieval, MD*  
Course will be lecture and video-based to review the experiences and techniques, surgical challenges, and success performing femtosecond laser-assisted cataract surgery. Topics include advanced capsulotomy centration and its effect on IOL position, benefits of arcuate incisions, changes in phacoemulsification, challenging cases, and experience introducing a femtosecond laser into high-volume academic and private cataract practices.

**27-107**  
**Room 258A**  
**Learning From Our Mistakes III: International Video Symposium of Complication Management in Cataract and Anterior Segment Surgery (Presented in Spanish)**  
Guadalupe Cervantes-Coste, MD  
Faculty: Abhay R. Vasavada, MS, FRCS,* Robert H. Osher, MD,* Virgilio Centurión, MD,* Miguel Srur, MD, Fernando Aguillera-Zarate, MD, Claudio Orlich, MD,* Luis Escaf, MD,* Arnaldo Espaillat, MD,* Ramón Lorente, MD, PhD  
Video-based course will illustrate the learning experiences of expert surgeons from difficult and complicated surgical situations. Surgeons from different countries will discuss their decision-making process while managing cataract and anterior segment cases. Interactive panel discussion will be encouraged and take-home pearls shared.

**27-108**  
**Room 258B**  
**Management of Difficult Cataracts and Challenging Situations**  
Abhay R. Vasavada, MS, FRCS*  
Faculty: Alan S. Crandall, MD,* Nick Mamalis, MD,* Kevin M. Miller, MD,* Robert H. Osher, MD,* Robert J. Cionni, MD*  
Course will identify the challenges arising during emulsification of difficult cataracts in adverse environments and discuss surgical strategies to deal with them successfully.

**27-109**  
**Room 258C**  
**Maximizing Refractive Cataract Surgery Outcomes With Intraoperative Aberrometry and Streaming Refractive Data**  
Vance M. Thompson, MD*  
Faculty: V. Nichoals Batra, MD,* Maria C. Scott, MD, Jonathan D. Solomon, MD*  
Course will review the impact of intraoperative aberrometry with streaming refractive data on refractive cataract surgery. Faculty will present personal results, cases, and clinical pearls for the use of this technology in power selection, toric IOL positioning, and placement of astigmatic incisions in both manual and femtosecond laser-assisted cataract surgery.

**27-110**  
**Room 259AB**  
**Strategic Prevention and Management of Common Intraoperative and Postoperative Complications for Beginning and Intermediate DSEK/DSAEK Surgeon**  
Edwin S. Chen, MD  
Faculty: Paul M. Phillips, MD, Neda Shamie, MD,* Mark A. Terry, MD,* George O. Rosenwasser, MD  
Course will start with a brief overview of endothelial keratoplasty, followed by a discussion of commonly encountered intraoperative and postoperative complications. Tips and tricks will be discussed for avoiding and/or treating these complications. Surgical trouble-shooting will be heavily video-based, and audience participation will be encouraged.

**27-111**  
**Room 206AB**  
**Best Management of Cataract Surgery in Complicated Eyes With Shallow ACD and Narrow Angle**  
George H. Beiko, BM BCh, FRCS*  
Faculty: Frank A. Bucci Jr, MD,* Barbara Kusa, MD, Richard L. Lindstrom, MD,* Matteo Piovella, MD*  
Course will present applications, techniques, results, and complications of lens surgery in hyperopic patients older than 50 years. AC OCT technology provides AC depth and size supporting indications for lens surgery in these patients.
ASCRS Program—Courses

Sunday, April 27
10:00–11:30 AM

27-201 Refractive Cataract Surgery
Room 252AB
Bina John, DO, FRCS
Faculty: Warren E. Hill, MD,* Mohan Rajan, MD, Sujatha Mohan, DO, MD, Ramamurthy Dandapani, MD

Course will cover the entire spectrum of refractive cataract surgery such as preop evaluation, A-scan, optical biometers, topography, and different IOL formulas. It will also cover the selection criteria for different IOLs (toric, multifocal, accommodating) and the surgical techniques of premium IOLs.

27-202 Understanding DMEK for the Beginning DMEK Surgeon
Room 253A
Jeffrey J. Ing, MD
Faculty: Arthur W. Giebel, MD, Lawrence R. Tenkman, MD, Thomas John, MD,* Mark Gorovoy, MD

Course will help attendees understand the DMEK procedure. It will discuss harvesting and preparation of the donor Descemet Endothelial Complex, insertion, and unfolding of the complex air and bubble management, and preoperative and postoperative considerations.

27-203 Achieving Successful Outcomes With Accommodating and Accommodating Toric IOLs
Room 253B
James A. Davies, MD*
Faculty: Y. Ralph Chu, MD*

Course will instruct attendees in proper patient selection, biometric IOL calculations (including post-corneal refractive surgery), surgical technique and postoperative care for accommodating IOLs, including a newly approved design for the correction of corneal astigmatism. Case studies and surgical videos will be used to support the principles taught.

27-204 Enhanced Screening for Ectasia Susceptibility: Going Beyond (Not Over) Topography and CCT Using Corneal Tomography and Biomechanical Assessment
Room 253C
Renato Ambrósio Jr, MD, PhD*
Faculty: Michael W. Belin, MD,* Cynthia J. Roberts, PhD,* William J. Dupps Jr, MD, PhD,* Damien Gatinel, MD,* Stephen S. Khachikian, MD, Paolo Vinciguerra, MD*

Course will present current understanding and clinical applications of corneal tomography and biomechanical measurements for the enhanced screening ectasia risk (susceptibility) beyond topography and CCT. The focus will be on clinical interpretation. The concept of ectasia susceptibility and novel approaches to clinical evaluation of corneal biomechanics will be discussed.

27-205 Management of Myopia in Adolescent Patients
Room 254A
Sami El Hage, PhD, OD
Faculty: Bruce H. Koffler, MD*

Course will discuss the field of myopia management and control in children. This in the face of myopia incidence increasing from roughly 5% to a projected 50% incidence worldwide. WHO and CDC are referring to the growth of myopia in China as an epidemic. Even in the U.S., myopia incidence has increased by 60% in the last several decades. In light of this, we are in need of a new and more effective protocol for the management of myopia among our adolescent patients. Peripheral hyperopia defocus plays an important role in myopia confinement. Panel discussion will follow.

27-206 Surgical Management of Challenging Cases (Sponsored by ALACCSA-R; presented in Spanish)
Room 257AB
Claudia Palacio, MD
Faculty: Leticia Arroyo-Muñoz, MD, Virgilio Centurión, MD,* Oscar Guerrero-Berger, MD, Luis Escaf, MD,* Santiago García Arroyo, MD, Ana Beatriz Medina Pérez, MD, Adan Tapiá, MD, Arnaldo Espaillat, MD*

Course will include challenging cases of cataract surgery. Experts will share their experience to solve special situations that may be present during surgery.

*Denotes financial interest; see Financial Interest Index for full listing
27-207  
**Room 258A**  
**Medicolegal Issues in Cataract and Refractive Surgery**  
Neal A. Sher, MD*
Faculty: Lisa M. Nijm, MD, JD, James J. Salz, MD,*  
Gregory Tiemeier, JD, William B. Trattler, MD,*  
William J. Tullo, OD*
Course will use brief lectures, case presentations, and Q&A to explore the latest malpractice issues in refractive and cataract surgery. Expert faculty includes a defense attorney, refractive surgeons, and experts in mediation and loss prevention.

**Sunday, April 27**  
1:00–2:30 PM

27-301  
**Room 252AB**  
**Refractive Surgery Nightmares and Worst-Case Scenarios: Video-Based Course**  
Athiya Agarwal, MD
Faculty: Amar Agarwal, FRCS,* Marguerite B. McDonald, MD,*  
Ronald R. Krueger, MD, MSE,* Sonia H. Yoo, MD,*  
A. John Kanellopoulos, MD,* Alaa M. El-Danasoury, MD,*  
Soosan Jacob, FRCS, MS, Ashvin Agarwal, MD
Course will present worst-case scenarios in refractive surgery that can make the best surgeon have nightmares. Still, these have to be managed competently. Topics such as flap complications, decentered ablations, and iatrogenic ectasia will be covered.

27-302  
**Room 253A**  
**International Video Symposium of Challenging Cases and Complication Management**  
Robert H. Osher, MD*
Faculty: Ehud I. Assia, MD,* Kimiya Shimizu, MD, PhD,*  
Richard B. Packard, MD, FRCS,* Ike K. Ahmed, MD,*  
Thomas Kohnen, MD, PhD,* Boris E. Malyugin, MD, PhD,*  
Abhay R. Vasavada, MS, FRCS,* Fernando C. Trindade, MD, PhD,  
Amar Agarwal, FRCS,* Brian C. Little, FRCOphth,*  
Graham D. Barrett, FRANZCO,* Virgilio Centurión, MD,*  
Rudy M. Nuijts, MD, PhD*
Course will showcase international faculty presenting videos of their challenging cases in a fast-paced educational and entertaining forum.

27-303  
**Room 253B**  
**Better Surgery Through Chemicals: Topical and Intracameral Agents for the Anterior Segment Surgeon**  
William G. Myers, MD*
Course will review the relevant pharmacology and physiology of intracameral and intravitreally applied agents including mydriatics, anesthetics, dyes, stains, OVDs, steroids, antibiotics, anti-inflammatories, and anti-VEGF agents. Topical antiseptic prophylaxis will be discussed. Potential risks of these agents, and compounding and regulatory issues will be discussed. A panel discussion will conclude the presentation.

27-304  
**Room 253C**  
**Consistently Accurate IOL Power Calculations**  
Warren E. Hill, MD*
Course will review current best practices for achieving optimal refractive outcomes for eyes having phacoemulsification in both normal and unusual clinical settings.

27-305  
**Room 254AB**  
**Toxic Anterior Segment Syndrome Following Cataract Surgery**  
Nick Mamalis, MD*
Faculty: Randall J. Olson, MD, Alan S. Crandall, MD,*  
Tat-Keong Chan, MD*
Course will discuss the causes of sterile postoperative anterior segment inflammation including irrigating solutions, medications, instrument sterilization problems, contaminants, and IOL-related problems.

27-306  
**Room 257AB**  
**Management of Pediatric Cataracts**  
Viraj Vasavada, MS*
Faculty: Abhay R. Vasavada, MS, FRCS,* Rupal H. Trivedi, MD,  
Wan-Soo Kim, MD, PhD
Course will highlight the paradigms for the management of pediatric cataracts. Adhering to these will enable the surgeon to enhance intraoperative performance and ensure a good technical and functional outcome.

*Denotes financial interest; see Financial Interest Index for full listing
27-307  
**Room 258A**  
**Posterior Corneal Astigmatism and Other Aberrations as New Tool for Selecting Correct IOL (Presented in Spanish)**  
Oscar Guerrero-Berger, MD  
Faculty: Carlos Palomino, MD,* Ramon Naranco-Tackman II, MD, Carlos G. Arce, MD,* Luis Escaf, MD,* Fernando Aguilar-Zarate, MD, Narly Ruiz-Quintero, MD, Santiago Garcia Arroyo, MD  
Course will describe the impact of including posterior corneal astigmatism and other aberrations as useful tools in selecting the correct IOL.

27-308  
**Room 258B**  
**Extracapsular Cataract Extraction Surgery: Endangered Procedure**  
Bonnie An Henderson, MD*  
Faculty: Jeff H. Pettrey, MD  
Course will demonstrate extracapsular cataract extractions by large incision (ECCE) and small incision, which are routinely performed throughout the world. Understanding how to perform this surgery competently is crucial when faced with complications during phacoemulsification surgery, when involved with international ophthalmology, or when an ECCE approach may be a better choice for the patient.

27-309  
**Room 258C**  
**Learning Phaco Chop: Pearls and Pitfalls**  
David F. Chang, MD*  
Faculty: Randall J. Olson, MD, Louis D. Nichamin, MD,* Barry S. Seibel, MD*  
Course presents a stepwise game plan for converting to phaco chop, along with selecting phacodynamic parameters and instrumentation. Using a special projection system, the audience will don stereo glasses to view 3-D high-definition videos that uniquely illustrate the angle and depth of the instrument tips for horizontal and vertical chopping.

27-310  
**Room 259AB**  
**Multifocal, Toric Multifocal, and Accommodating IOLs: Face the Challenge**  
Matteo Piovella, MD*  
Faculty: David F. Chang, MD,* Jack T. Holladay, MD, MSEE,* Michael C. Knorz, MD,* Richard L. Lindstrom, MD,* Jay S. Pepose, MD, PhD,* Richard Tipperman, MD,* Claudio Carbonara, MD*  
Course will review state-of-the-art knowledge on available multifocal and accommodating IOLs. Their features, indications, and contraindications, matching possibilities, and clinical results, pursuing highly satisfactory uncorrected distance, intermediate and near vision will be examined along with advanced technology IOL performance based on contrast sensitivity, light distribution, light loss and halos.

27-311  
**Room 206AB**  
**Best of the Best: Update on Advanced Cataract Surgery**  
Richard L. Lindstrom, MD*  
Faculty: Eric D. Donnenfeld, MD,* Michael C. Knorz, MD,* Stephen S. Lane, MD,* Matteo Piovella, MD,* Steve C. Schallhorn, MD,* Roger F. Steinert, MD*  
Course will discuss how advances in technology, IOLs, phaco machines, femtolaser, and indications are making cataract surgery extremely similar to refractive surgery. Ideal results of cataract surgery is plano correction. Cataract surgeon must provide optimal vision quality. This requires accurate customization of IOL choice, obsessively accurate biometry, adoption of new technologies as microincision and premium IOLs (multifocal, toric, multifocal + toric, aspheric).

### Sunday, April 27

#### Room 252AB

**27-401**  
**Ultrathin DSAEK**  
Massimo Busin, MD*  
Faculty: Jacqueline Beltz, MBBS, FRANZCO, Silvana A. Madi, MD, Paolo Santorum, MD, Amit Patel, MB BCH, FRCOphth  
Course will present a technique of endothelial keratoplasty aimed at improving visual results while maintaining technical simplicity. Advantages and disadvantages of ultrathin DSAEK and use in challenging cases will be presented. Videos will illustrate preparation of ultrathin grafts and technique for delivery, as well as 3-year results and complications.

*Denotes financial interest; see Financial Interest Index for full listing
27-402
Management of Iris Deficiencies
Michael E. Snyder, MD*
Faculty: Samuel Masket, MD, * Alan S. Crandall, MD,*
Ike K. Ahmed, MD, * Kenneth J. Rosenthal, MD*
Course will present a variety of complex cases of iris damage,
absence, or pigmentary deficiency and will demonstrate different
techniques for suture repair or, when appropriate, iris replacement
devices.

27-403
Managing the Malpositioned IOL
Soon-Phaik Chee, FRCSE*
Faculty: Ronald Yeoh, MD,* Alan S. Crandall, MD*
Course will use videos to show IOL retrieval and fixation techniques
when capsule support is lacking. Experts make these complex
surgeries look simple when they are not. Each step will be critically
analyzed, questions asked, and logic behind each maneuver clarified
so correct surgical decisions are made.

27-404
Intraocular Lens Calculation After Refractive Surgery
Wolfgang Haigis, MS, PhD*
Faculty: Jaime Aramberri, MD,* Douglas D. Koch, MD,*
Nicola Rosa, MD, H. John Shammas, MD,*
Julian D. Stevens, FRCOphth*
Course will present clinical background and error sources in IOL
calculation after refractive surgery. Influences of the surgical
procedure, ablation types and zones, refractive correction, and
measurement instruments used will be explained. Currently available
methods and formulas for different conditions will be summarized
and exemplified by clinical results.

27-405
Objective Imaging: Quantitative and Qualitative
Keratoconus Diagnosis and Progression Criteria
Gregory J. Pamel, MD
Faculty: George Asimellis, PhD,* A. John Kanellopoulos, MD*
Course will present methodology and pearls in evaluating corneal
ectasia and keratoconus diagnosis and progression assessment based
on a multitude of most contemporary imaging modalities
(Scheimpflug, Placido topography, anterior segment optical coherence
tomography, corneal and epithelial imaging, ocular stray-light
quantifier, and novel point source reflection topography).

27-406
Refractive Surgery on Trial
Steven I. Rosenfeld, MD*
Faculty: Anne M. Menke, RN, PhD, Gregory Tiemeier, JD
Course will present a refractive surgery case that went to trial.
Plaintiffs focused on alleged record alterations, failure to follow
manufacturer’s instructions, and signs of optic nerve damage. The
defense pointed to the plaintiff’s noncompliance, Facebook photos,
inconsistent testimony, and visual outcome. The format is a panel
presentation and discussion.

27-407
Uncomplicated Cataract Surgery:
Attaining a Dream–2014 Update
Barbara Kusa, MD
Faculty: Steve A. Arshinoff, MD, FRCSC,* David F. Chang, MD,*
Richard L. Lindstrom, MD,* Robert H. Osher, MD,*
Matteo Piovella, MD*
Course will examine the most frequent or dreaded complications in
cataract surgery–capsulorhexis problems, endothelial damage,
posterior capsule break, endophthalmitis, with update on preventing
or managing them for patient satisfaction and safety. Decreasing
occurrence of complications is a paramount goal for every eye
surgeon. A logical, experience-based approach to prevention/
management is indispensable.

27-408
Effective Use of Capsular Tension Devices
Robert J. Cionni, MD*
Faculty: Ike K. Ahmed, MD,* Alan S. Crandall, MD,*
Robert H. Osher, MD,* Kenneth J. Rosenthal, MD*
Course will cover techniques, indications, and pitfalls for the use
of capsular tension rings, capsular tension segments, and retractors
in patients with capsular–zonular complex pathology. Case
presentations and a discussion of surgical approach and selection of
capsular device(s) and techniques for implantation will be discussed.

27-409
Management of Astigmatism in Conjunction
With Clear Corneal Phaco Surgery
Louis D. Nichamin, MD*
 Faculty: Jonathan B. Rubenstein, MD*
Course will cover management techniques for pre-existing
astigmatism, specifically at the time of implant surgery, with focus on
intralimbal relaxing incisions, toric IOLs, and laser (femto/excimer)
modalities.
27-410  
**Trabeculectomies and Tube Shunts for the Comprehensive Ophthalmologist**  
*Room 259AB*  
_Nir Shoham-Hazon, MD_

*Faculty:* Ike K. Ahmed, MD,* Marc G. Bodman, MD, Michael F. Oats, MD, Nathan M. Radcliffe, MD,* Douglas J. Rhee, MD,* Hady Saheb, MD, MPH,* Devesh K. Varma, MD, FRCSC,* Shmuel Levartovsky, MD

Course will use surgical videos to demonstrate step-by-step techniques of performing trabeculectomies and tube shunts. Both valved and non-valved tubes will be presented. Also discussed will be the proper choice of each procedure tailored to the individual patient and the use of adjunctive therapy.

27-411  
**Solving High-Myopia Problem With Phakic IOLs**  
*Room 206AB*  
_Dimitrii D. Dementiev, MD*

*Faculty:* Luca Gualdi, MD, David R. Hardten, MD,* Gregory D. Parkhurst, MD,* Matteo Piovella, MD,* Stephen Slade, MD,* Georges D. Baikoff, MD*

Course will present a review of state-of-the-art knowledge on anterior and posterior chamber phakic IOLs, with information on patient, eye, and IOL selection, surgical techniques, management of intraoperative and postoperative complications. Special attention will be given to diagnostic instruments for patient selection and follow-up.

**Sunday, April 27**

27-500  
**Ethics of Femtosecond Laser–Assisted Cataract Surgery**  
*Room 205ABC*  
_Richard S. Hoffman, MD*

*Faculty:* John D. Banja, PhD, Donald N. Serafano, MD,* Michael E. Snyder, MD,* Sonia H. Yoo, MD,* Abhay R. Vasavada, MS, FRCSC*

Course will be about ethics of femtosecond laser–assisted cataract surgery. Sponsored by the Cataract Clinical Committee with Dr. Richard Hoffman.

**Monday, April 28**

28-101  
**2014 Legislative and Regulatory Update**  
*Room 150*

_Nancey McCann_

Course will present the latest news and updates on legislative and regulatory issues, followed by discussion with attendees.

28-102  
**Femtosecond Laser–Assisted Treatment of Complex Cataracts With a Liquid Optics Interface-Based Platform**  
*Room 253A*  
_Robert P. Rivera, MD*

*Faculty:* Juan F. Batlle, MD,* H. Burkhard Dick, MD, Jason J. Jones, MD,* William F. Wiley, MD,* Johnny L. Gayton, MD,* William W. Culbertson IV, MD*

Course will discuss and explore surgery of complex cataract cases performed with femtosecond laser technology and the manner in which the liquid optics interface of the OptiMedica Catalys (Abbott Medical Optics) advances the ability of the surgeon to treat such cases.

28-103  
**Descemet-Stripping Endothelial Keratoplasty Under Challenging Conditions**  
*Room 253B*  
_M. Bowes Hamill, MD*

*Faculty:* Mitchell P. Weikert, MD,* Surendra Basti, MD,* Thomas M. Harvey, MD,* Elizabeth Yeu, MD*

Course will present multiple clinical scenarios in which DSEK presents special challenges. Examples include anterior chamber IOLs, tube shunts, aniridia, aphakia, and the pediatric patient. Different surgical approaches for dealing with these issues will be shown. Teaching techniques will involve videos and panel discussions as well as active audience participation.

*Denotes financial interest; see Financial Interest Index for full listing
28-104  Room 253C
**Corneal Topographic Analysis and Anterior Segment Imaging: Pearls for Your Clinical Practice**

*Mitchell P. Weikert, MD*

**Faculty:** Douglas D. Koch, MD,* Thomas Kohnen, MD, PhD,* Surendra Basti, MD,* Li Wang, MD, PhD,* Cynthia J. Roberts, PhD,* William J. Dupps Jr, MD, PhD*

Course will present a systematic approach to the interpretation of corneal topographies and anterior segment imaging studies using didactic instruction combined with numerous clinical examples. It will highlight several imaging systems and technologies, including Placido-based topography, single- and dual-Scheimpflug imaging, and optical coherence tomography.

28-105  Room 254AB
**Lessons Learned From the Art of Practice Management**

*Joseph C. Noreika, MD, MBA*

**Faculty:** Kevin J. Corcoran, COE, CPC,* Mary Pat Johnson, COMT, COE, CPC, CPMA,* Bruce Maller,* Mark E. Kropiewnicki, JD, LLM,* Patrick Hobbs,* Michael Stark, JD

Course will address contemporaneous challenges confronting the ophthalmologist and specific remedies to better administer his/her practice to provide superior service to patients and management of staff. Recommendations will be proposed through didactic presentations and panel discussion. Course is dedicated to the memory of Dr. Herve Byron.

28-106  Room 257AB
**Early Detection and Management of Keratoconus Including Collagen Crosslinking**

*Ronald N. Gaster, MD, FACS*

**Faculty:** Yaron S. Rabinowitz, MD

Course will discuss the early detection of keratoconus and review management options for the various stages of keratoconus, including collagen crosslinking, intrastromal corneal ring segments, femtosecond laser-enabled keratoplasty and DALK. Presentations will be done by lecture and accompanied by videos. Ample time for questions and discussion from the audience will be allowed.

28-107  Room 258A
**Optical Coherence Tomography: Essentials and Pearls for Anterior Segment Surgeon**

*S. Akbar Hasan, MD*

**Faculty:** Michael W. Stewart, MD,* Rajesh Shetty, MD*

Course will describe the use of optical coherence tomography (OCT) in the evaluation and diagnosis of optic nerve, retina, and anterior segment disease. Numerous case presentations will highlight the valuable role of OCT in the practices of cornea, glaucoma, and retina surgeons. Clinical pearls and experiences will be discussed.

28-108  Room 258B
**Phaco Prechop: By Hand, Ultrasound, and Laser**

*Takayuki Akahoshi, MD*

**Faculty:** Luis Escaf, MD,* Luz Marina Melo, MD, Alan S. Crandall, MD,* Philippe C. Crozafon, MD*

Course will present 3 methods of prechop by conventional manual technique, by ultrasound with ultrachopper, and by femtosecond laser. The merit and demerit of each method will be discussed after video presentation by the original inventors of the methods or the pioneer of the field.

28-109  Room 258C
**Transforming Technique and Technology: 3-D Video Course in Challenging Cataract Surgery**

*Mathew K. Kummellil, MD*

**Faculty:** Ike K. Ahmed, MD,* Haripriya Aravind, MD, Robert J. Weinstock, MD*

Course will use high-definition 3-D content followed by a panel discussion to demonstrate step-by-step the excellent clinical outcomes achievable with advanced technology and technique in challenging cataract surgical cases including combined surgery. A fresh look at some fundamentals of phacoemulsification and advanced technology IOLs will be presented.
28-110  
**Room 259AB**

**Microsheathed Coaxial Phaco/Microphaco Techniques and Biaxial Microphaco in Challenging Cataracts: Video Course**

Keiki R. Mehta, MS, DO, FIOS  
Faculty: Nick Mamalis, MD,* Mark Packer, MD, FACS,* Cyres K. Mehta, MD, MCH, Richard S. Hoffman, MD*

Course will demonstrate successful use of biaxial microphaco and coaxial phaco/microphaco techniques in difficult cataracts and miotic pupil, manage unstable capsules and still do microphaco effectively, demonstrate effective implantation techniques via small sub-2.0 mm incision.

28-111  
**Room 206AB**

**Astigmatism Correction in 2014 (Sponsored by ALACCSA-R; presented in Spanish)**

Miguel Srur, MD  
Faculty: Luis Izquierdo Jr, MD, Virgilio Centurión, MD,* Cesar C. Carriazo, MD,* Guadalupe Cervantes-Coste, MD

Course will concentrate exclusively on the issues of different techniques and treatments for astigmatism.

28-112  
**Room 252AB**

**Avoiding Complications in Phaco**

Kumar J. Doctor, MD  
Faculty: David F. Chang, MD,* Amar Agarwal, FRCS,* Ike K. Ahmed, MD,* Gaurav Luthra, MS,* Mohan Rajan, MD, Arup Chakrabarti, MS

Course will show video presentations about techniques of phacoemulsification. With more and more advanced machines and techniques evolving, different disasters can be managed differently. Course will cover all aspects of surgical complications.

28-201  
**Room 252AB**

**Endothelial Keratoplasty in Challenging Cases**

Jacqueline Beltz, MBBS, FRANZCO  
Faculty: Massimo Busin, MD,* Paolo Santorum, MD, Silvana A. Madi, MD, Amit Patel, MB BCh, FRCoPhth

Course will use videos to explain technique modifications allowing DSAEK to be performed in both lens- and non-lens-related challenging cases. These technique modifications eliminate the need for penetrating keratoplasty for the treatment of endothelial disease and provide patients with improved results and fewer complications.

28-202  
**Room 253A**

**360-Degree Clear Corneal Trabeculotomy for Comprehensive Ophthalmologist in Surgical Management of Open-Angle Glaucoma**

David Badawi, MD*  
Faculty: Steven R. Sarkisian Jr, MD*

Course will discuss 360-degree, clear-corneal trabeculotomy in managing POAG whether as a stand-alone procedure or combined with cataract surgery. Geared toward comprehensive ophthalmologists and glaucoma specialists alike, course will include a lecture, panel discussion, videos, and follow-up Q&A session.

28-203  
**Room 253B**

**Update on Keratoconus and Corneal Ectasia (Sponsored by ALACCSA-R; presented in Spanish)**

Walton Noseré, MD  
Faculty: Renato Ambrósio Jr, MD, PhD,* Marcelo Sterzovsky, MD, Tito Ramirez-Luquin, MD, Angela M. Gutiérrez, MD, Rene Moreno, MD

Course will discuss prevention, early recognition, and management of ectasia and keratoconus. Specific diagnostic tests and new techniques will be addressed to achieve optimal outcomes. Topics to be presented include new diagnostic tools; crosslinking—results and complications; lamellar transplantation; penetrating graft; intracorneal rings.

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*Denotes financial interest; see Financial Interest Index for full listing*
ASCRS Program—Courses

28-204

Contemporary Anterior Segment Imaging Technologies and Their Application to Clinical Practice
Paul J. Harton Jr, MD, PharmD
Faculty: Robert P. Rivera, MD, Gregory D. Parkhurst, MD, Ike K. Ahmed, MD*

Course will use PowerPoint presentations and video clips to demonstrate uses of OCT and high-resolution ultrasound (UBM) in femtosecond laser–assisted cataract surgery, phakic IOL sizing, IOL position and function, preoperative estimation of IOL lens position, and anterior chamber angle evaluation in glaucoma patients. Case presentations will be used to prompt interactive panel discussion with the audience.

28-205

Toric IOLs and LRI: Planning, Nomograms, and Enhancements
Noel Alpins, MD, FACS*
Faculty: Michael Goggin, FRCSI(Ophth), FRANZCO, George Stamateiatos, OD, Lance Kugler, MD*

Course will outline toric IOL and limbal relaxing incisions, planning parameters, and postop analysis together with nomogram adjustments. Course format will include interactive debate and panel discussions.

28-206

Challenging Phaco Cases: Combining Techniques and Technology
Minu M. Mathen, MD
Faculty: Haripriya Aravind, MD, David M. Lubeck, MD, Amar Agarwal, FRCS, Soon-Phaik Chee, FRCS*

Video-based course will highlight the difficulties faced and modifications in techniques required during phacoemulsification of difficult cataracts including posterior polar, soft, hard, and mature cataracts; subluxations; small pupils; and post-vitrectomized eyes, using newer phacoemulsification machines, torsional technology, and microincision phaco.

28-207

Getting Started With MIGS: Tips for Successful Use of Trabecular Micro-Bypass Stent
Carlos Buznego, MD*
Faculty: Thomas W. Samuelson, MD, Jason Bacharach, MD, Ike K. Ahmed, MD, Kerry D. Solomon, MD, Eric D. Donnenfeld, MD*

Course will give practical pointers on minimally invasive glaucoma surgery and how to incorporate this new procedure into a cataract surgery practice. Podium presentations will include surgical video and be followed by panel discussion and audience Q&A.

Monday, April 28
1:00–2:30 PM

28-301

Transition to DMEK: Surgical Pearls and Pitfalls
Neda Shamie, MD*
Faculty: Brandon D. Ayres, MD, Michael D. Straiko, MD, Nicole R. Fram, MD*

Course will review how to successfully transition from DSEK to DMEK, highlighting surgical pearls and common pitfalls. We will discuss the appropriate initial patient selection, surgical techniques and tools, and postoperative evaluation and management. The format of the presentations will be heavily focused on surgical videos and panel discussions.

28-302

Pearls for Small-Aperture Corneal Inlay Implantation
Minoru Tomita, MD, PhD*
Faculty: George O. Waring IV, MD, FACS, Perry S. Binder, MS, MD, Jeffery J. Machat, MD, FRCS, John A. Vukich, MD*

Course will review surgical strategies and common issues associated with small-aperture corneal inlay implantation through lecture and surgical video. Today, inlays are being implanted into lamellar pockets, simultaneously with LASIK or in a secondary pocket interface in post-LASIK patients. Course will review each surgical technique in detail, postoperative exam process, and typical patient outcomes and provide tactics for maximizing patient satisfaction.
28-303  
**Ocular Surface Procedures in the Treatment Room**  
Clara C. Chan, MD, FRCSC*  
Faculty: Allan R. Slomovic, MD, FRCSC,*  
David S. Rootman, MD, FRCSC,*  
Yakov Goldich, MD, Noa Avni-Zauberman, MD,  
Randall Ulate, MD, Neera Singal, MD, FRCSC  
Interactive video-course presenting current surgical techniques at the  
minor treatment room for the management of diverse ocular  
surface diseases. Topics will include superficial keratectomy,  
pterygium surgery (sutures, fibrin glue, and/or mitomycin-C),  
amniotic membrane grafts, conjunctival flaps, use of histoacryl  
gluue, manual relaxing incisions, management of conjunctival  
chalasis, and corneal tattooing.

28-304  
**Controversies in Identifying Risk Factors for Post-LASIK Ectasia**  
William B. Trattler, MD*  
Faculty: Renato Ambrósio Jr, MD, PhD,*  
PhD,* Lewis R. Groden, MD, J. Bradley Randleman, MD,  
Stephen D. Klyce, PhD, FARVO,* Michael K. Smolek, PhD*  
Course will review the known risk factors for ectasia, the risk factor  
scoring systems, and corneal topography interpretation. The faculty  
will also focus on controversies that exist in the criteria used to  
determine whether a patient is at increased risk for ectasia.

28-305  
**Intraocular Lens Power Calculation: 40 Years Later**  
Kenneth J. Hoffer, MD*  
Course will present essentials for clinicians to fine tune IOL power  
calculations for normal eyes and learn the instruments and techniques  
needed to improve accuracy in problem eyes. It will also discuss how  
to handle errors that may arise in clinical practice based on 40 years  
of experience.

28-306  
**Femtosecond Laser–Assisted Cataract Surgery: Exploring the Limits**  
Surendra Basti, MD*  
Faculty: David M. Lubeck, MD,* H. Burkhard Dick, MD,  
Shachar Tauber, MD,* Chitra R. Ramamurthy, MD  
Course will provide video-based demonstration of challenging cases  
and provide a systematic approach to managing these. Use of  
femtosecond laser in advanced cataracts, pediatric cataracts, zonular  
instability, small pupil, eyes with cornea/media opacity, and for  
posterior capsulorhexis will be demonstrated.

28-307  
**Advanced Cataract and Anterior Segment Surgery: International Video Symposium**  
Kevin M. Miller, MD*  
Faculty: Abhay R. Vasavada, MS, FRCS,*  
Boris E. Malyugin, MD, PhD,* Brian C. Little, FRCOphth,*  
Amar Agarwal, FRCS,* Ike K. Ahmed, MD,* Ehud I. Assia, MD,*  
Eduardo S. Soriano, MD, Marie José B. Tassignon, MD, PhD,*  
Jaime Zacharias, MD*  
Course will be conducted by an international panel that will present  
challenging cataract and anterior segment cases recorded on video.  
Presenters will discuss preoperative and intraoperative surgical  
management. Panelists will provide lively commentary.

28-308  
**Descemet-Stripping Automated Endothelial Keratoplasty: A-Z**  
Michael J. Tarabella, MD*  
Faculty: Richard S. Davidson, MD,* Vipul C. Shah, MD  
Course will cover basic through advanced DSAEK techniques and  
instrumentation with emphasis on video instruction and complication  
management. Use of ultrathin donor tissue (donor thickness less than  
100 µm) will be emphasized.

28-309  
**MicroInvasive Glaucoma Surgery: Indications, Approaches, and Techniques**  
Ike K. Ahmed, MD*  
Faculty: Douglas J. Rhee, MD,* Thomas W. Samuelson, MD,*  
Richard A. Lewis, MD,* Steven D. Vold, MD*  
Course will provide a framework for the use of micro-stents in  
glaucoma to maximize success in this new field. New approach and  
indications, specific surgical techniques and pearls, and complication  
management will be presented using multimedia, graphics, and video.

28-310  
**Lens Surgery After Corneal Refractive Surgery**  
(Sponsored by ALACCSA-R; presented in Spanish)  
Virgilio Centurión, MD*  
Faculty: Jaime Aramberri, MD,* Pedro P. Fabri, MD,  
Miguel Srur, MD, Juan G. Ortega, MD, Enrique J. Suarez, MD,  
Claudio Orlich, MD,* Roberto G. Albertazzi, MD*  
Course will focus on lens surgery in eyes previously submitted to  
refractive surgery—peculiarities in the IOL calculation, the influence  
to the eye surface condition, different surgical approaches, results,  
side effects, and complications.

*Denotes financial interest; see Financial Interest Index for full listing
Monday, April 28
3:00–4:30 PM

28-401
Innovative Uses of Adhesives in Anterior Segment Surgery
Terry Kim, MD*
Faculty: Amar Agarwal, FRCS,* Sadeer B. Hannush, MD, David R. Hardten, MD,* Robert J. Neecker, MD, MBA,* Christopher J. Rapuano, MD,* David C. Ritterband, MD,* Jonathan B. Rubenstein, MD*

Course will present the use of cyanoacrylate, fibrin-based, and other new adhesives in cataract and glaucoma surgery, corneal wounds, pterygium surgery, secondary IOL implantations, LASIK complications, and ocular surface reconstruction procedures. The format will include didactic lectures, video case presentations, and panel discussion.

28-402
Cataract Surgery in the Diseased Eye
Meena Chakrabarti, MS
Faculty: Arup Chakrabarti, MS, Ike K. Ahmed, MD,* Ramamurthy Dandapani, MD, Richard B. Packard, MD, FRCS,* David F. Chang, MD,* Kumar J. Doctor, MD, Khun F. Tjia, MD,* Gaurav Luthra, MS,* Parag A. Majmudar, MD*

Course will present surgical pearls and offer guidelines to perform phaco in diseased eyes including corneal pathology, glaucoma, uveitis, posterior segment disease, diabetes, and extremes of refractive errors.

28-403
Use of Femtosecond Laser for Complex Cataract Surgery: Cases That I Could Not Have Done Without the Femtosecond Laser
Richard S. Davidson, MD*
Faculty: Sonia H. Yoo, MD,* Michael J. Taravella, MD*

Course will demonstrate the use of the femtosecond laser in complex cataract cases. Using video presentations, presenters will show how the use of the femtosecond laser allowed them to do a case that they may not have been able to do otherwise.

28-404
Intraocular Lens Exchange and Repositioning Techniques
Alan S. Crandall, MD*
Faculty: Ike K. Ahmed, MD,* Garry P. Condon, MD*

Course will cover approaches to IOL repositioning including variations on scleral suture fixation, iris suture fixation, using existing capsular support, and in-the-bag IOL explantation/exchange techniques.

28-405
Advanced Technologies for Managing Meibomian Gland Dysfunction
Marguerite B. McDonald, MD*

Course will explore new approaches, including the use of interferometry, gland expression, and a thermal pulsation procedure, to achieve optimal patient outcomes. Physicians lack adequate tools to diagnose and treat meibomian gland dysfunction. Instructor will include a systematic diagnostic process and compare clinical trial to in-practice results.

28-406
Fundamentals of Anterior Segment Reconstruction
Brandon D. Ayres, MD*
Faculty: George O. Waring IV, MD, FACS,* W. Barry Lee, MD,* Jeremy Z. Kieval, MD,* Elizabeth Yeu, MD,* John P. Berdahl, MD*

Course will consist of lecture, video, and panel discussion highlighting various current topics in anterior segment surgery. Topics will include iris repair, IOL exchange, sutured IOLs, anterior vitrectomy, use of iris and capsule support devices, and complex cataract surgery.

28-407
Special and Strange Cases in Cataract Surgery: Video Course
L. Felipe Vejarano, MD
Faculty: Amar Agarwal, FRCS,* I. Howard Fine, MD, Ike K. Ahmed, MD,* William J. Fishkind, MD,* David F. Chang, MD*

Course will show that coaxial or biaxial phacoemulsification can be performed in even strange cataract cases. Experts will present pearls and tips for every surgical step, phaco techniques, complications, and how to best manage in each situation.

*Denotes financial interest; see Financial Interest Index for full listing
**28-408**  
*Phaco Prechop: Last Frontier Before Femtosecond Laser-Assisted Cataract Surgery (Presented in Spanish)*  
Sergio Ruiz-Esmenjaud, MD  
Faculty: Takayuki Akahoshi, MD, Santiago Garcia Arroyo, MD, Roberto Aguilar, MD  

Course will describe the fundamental steps in phaco prechop to master this technique and advance to femtosecond laser-assisted cataract surgery. Different kinds of nucleus from soft to hard-rock consistency will be presented, including difficult prechop cases. Panel discussion and interactive debate will be used.

**28-409**  
*Refractive and Cataract Surgery Nightmares: Management and Prevention of Premium IOLs and Laser Vision Correction Complications*  
Donald N. Serafano, MD*  
Faculty: Matteo Piovella, MD,* Eric D. Donnenfeld, MD,* Mounir A. Khalifa, MD, PhD,* Richard L. Lindstrom, MD,* Marguerite B. McDonald, MD,* Mohamed Shafik Shaheen, MD, PhD, Roberto Zaldivar, MD*  

Course will present intraoperative and postoperative complications of refractive surgery (premium IOL and laser surgery), discussing pathogenesis, technical caveats, planned approach to difficult patients, prevention, diagnostic workup, management, and long-term follow-up of complicated cases.

**28-410**  
*Tubes, Ties, and Videotape: Surgical Video of Glaucoma Implants and Managing Complications*  
Herbert P. Fechter III, MD  

Course will present clinical photos, patient history, and edited surgical video of several challenging glaucoma cases and will demonstrate efficient techniques for tube insertion and how to manage postoperative complications. How to reposition, extend, trim, cover, revise, and tie-off problematic tubes will also be covered.

**28-411**  
*Femtosecond Lasers, Multifocal IOLs, and a Surgical Planner and Guidance System in Cataract Surgery*  
Richard Ching Kho, MD*  
Faculty: Cesar Ramon Grino Espiritu, MD,* Harvey S. Uy, MD, Robert Edward T. Ang, MD,* Benjamin Gregorio Cabrera, MD,* Carlos G. Naval, MD, MBA,* Robert J. Cionni, MD,* David M. Lubeck, MD*  

Course will present experiences with different femtosecond lasers, a surgical planner and guidance system, and a new multifocal IOL. A review of multifocal IOLs and the economics of femtosecond laser-assisted cataract surgery will be presented. Videos will highlight the presentations particularly in a unique and serious machine-related complication.

**29-101**  
*Nonpenetrating Combined Procedure for Beginners*  
Cyres K. Mehta, MD, MCH  
Faculty: Keiki R. Mehta, MS, DO, FIOS, Boris E. Malyugin, MD, PhD,* Alan S. Crandall, MD,* Ike K. Ahmed, MD,* Gabor B. Scharioth, MD, PhD*  

Course will teach beginning and intermediate glaucoma and cataract surgeons how to combine nonpenetrating Glaucoma Surgery (NPGS) such as canaloplasty with phaco. This will be done with video and animations primarily. Phaco-NPGS avoids the complications of phaco trab while being as effective.

**29-102**  
*Complex Cataract Surgery: Girl-Friends Guide to Self-Improvement*  
Susan MacDonald, MD  
Faculty: Bonnie An Henderson, MD,* Shameema Sikder, MD,* Lisa B. Arbisser, MD,* Lama A. Al-Aswad, MD,* Priya S. Narang, MS  

Video-based course will include complex cataracts and their management. Come for a bit of BFF straight talk on how to improve your surgical skills, and a bit of motherly advice of how to stay out of trouble—small pupil, zonular dialysis, intraoperative floppy iris syndrome and pseudoxefoliation, and vitreous loss.
### 29-103
**Room 253B**

**Surgical Management of Subluxated Lenses**

_Ehud I. Assia, MD*

**Faculty:** Kenneth J. Rosenthal, MD,* Boris E. Malyugin, MD, PhD,* Vladimir Pfeifer, MD,* Alan S. Crandall, MD,* Marie José B. Tassignon, MD, PhD*

Course will demonstrate a variety of surgical techniques to treat subluxated crystalline lenses and malpositioned intraocular lenses in detail, including scleral and iris fixation techniques, capsule stabilizing devices, complications, and complex cases.

### 29-104
**Room 253C**

**Perfect LASIK Flaps With Different Femtosecond Platforms: Techniques in Femto-Flap Creation and Management of Unexpected Scenarios in LASIK**

_Mohamad Rosman, FRCS(Ed) (Ophth), FAMS*

**Faculty:** Cordelia Chan, FRCS(Ed),* Li Lim, FRCS(Ed), MMed (Ophth), Damien Gatinel, MD*

Interactive video-based will highlight tips and tricks in femtosecond LASIK flap creation with various platforms. Management of unexpected scenarios such as suction loss, flap tears, hyperanxious patients, vertical gas breakthrough, and epithelial ingrowth will be shown.

### 29-105
**Room 254AB**

**Less Than Perfect Outcomes After Uneventful Cataract Surgery: What Are We Missing?**

_Arup Chakrabarti, MS*

**Faculty:** Kevin M. Miller, MD,* Anthony J. Aldave, MD,* Meena Chakrabarti, MS, David F. Chang, MD,* Kathryn M. Hatch, MD,* Suven Bhattacharjee, MS, DO,* Arulmozhi Varman, MD*

Course will deal with causes of less than perfect outcomes after uneventful cataract surgery and formulate a plan to manage them. Topics include corneal pathologies, dry eye, keratitis medicamentosa, undetected preoperative astigmatism, problems with multifocal IOLs, PCO, dysphotopsia, IOL and capsular bag decentration, unexpected postoperative ametropia, and subtle macular pathologies.

### 29-106
**Room 257AB**

**Understanding OVDs to Optimize Their Use in Cataract Surgery and Complications**

_Steve A. Arshinoff, MD, FRCSC*

Course will consist of a slide and video presentation of rheologic properties, classification, and varied utilization techniques for different OVD types. New OVDs, recent discoveries, and principles and techniques to prevent and manage complications and postoperative IOP will be covered. Ample opportunity for discussion will be available.

### 29-107
**Room 258A**

**Video-Based Complex Cataract Surgery: Complications Reviewed—Learning From Our Mistakes**

_David A. Crandall, MD*

**Faculty:** Roberto Pineda, MD,* Roger C. Furlong, MD, Susan MacDonald, MD, Alan S. Crandall, MD,* Lama A. Al-Aswad, MD*

Video-based course will include analysis of several anterior segment surgical complications. The interactive course will include discussion and debate of possible solutions and learning opportunities. Please join us in friendly critical analysis of these cases so we all become more thoughtful problem-solving surgeons.

### 29-108
**Room 258B**

**Laser-Assisted Cataract Surgery: Where Are We Today (Sponsored by ALACCSA-R; presented in Spanish)**

_Jose L. Rincon, MD*

**Faculty:** Alfonso Arias-Puente, MD, PhD, Javier Mendicute, MD, PhD, Edgardo Carreño, MD, Claudio Orlich, MD,* Arnaldo Espaillat, MD,* Armando Crema, MD*

Course will review the different aspects of laser-assisted cataract surgery from the perspective of Latin-American surgeons. It will discuss concepts and technical aspects of the different parts of femto surgery such as capsulotomy, lens fracture, corneal incisions, and arc incisions and will also review the most frequent complications and complicated case management.

*Denotes financial interest; see Financial Interest Index for full listing
29-109
Mission Possible: Phacoemulsification in Difficult and Challenging Cases
Suresh K. Pandey, MD
Faculty: Vidushi Sharma, MD, FRCS, Robert H. Osher, MD,* Alan S. Crandall, MD,* Ike K. Ahmed, MD,* Amar Agarwal, FRCS,* Abhay R. Vasavada, MS, FRCS,* Mark Packer, MD, FACS,* Mahipal S. Sachdev, MBBS, MD*

Video-based course will highlight phacoemulsification in complex cataracts. Surgical techniques will be presented for managing soft to rock-hard cataract; white, traumatic, subluxated cataract; PXF; zonular dehiscence; small pupil; floppy iris; phaco in kyphosis/postural disorder; and sutureless secondary IOL fixation.

29-110
Off-label Prescribing: International Concerns, Considerations, and Recommendations
John D. Banja, PhD
Faculty: Andrzej E. Grzybowski, MD, PhD,* Matteo Rovella, MD,* Doyle Stulting, MD, PhD*

Course will discuss the kinds of clinical circumstances that justify off-label practicing as well as situations in which off-label practice might constitute the state of the art. Faculty will also discuss whether physicians should customarily inform patients that they are receiving an off-label prescription as part of the informed consent process. The faculty will represent international perspectives on these questions and consider the role of drug and device manufacturers in off-label contexts.

29-111
State-of-the-Art in Keratoconus Treatment: New Corneal Rings, Crosslinking, Thermal Treatment, DALK, and Femtosecond Laser
Francisco Sánchez León, MD*
Faculty: Minoru Tomita, MD, PhD,* Francis W. Price Jr, MD,* Michael B. Raizman, MD,* Efekan Coskunseven, MD, Renato Ambrósio Jr, MD, PhD*

Lectures, videos, and discussions will review suitable indications of the latest techniques for the treatment of keratoconus and LASIK ectasia. New corneoplastic concepts for keratoconus including, diagnostics, CXL, novel intraconal rings, DALK, and thermokeratoplasty techniques will be described.

29-201
Controversies in Refractive Surgery
Chitra R. Ramamurthy, MD
Faculty: Mahipal S. Sachdev, MBBS, MD,* Gaurav Luthra, MS,* Ramamurthy Dandapani, MD, Sri Ganesh, MBBS, MS, DNB,* Sujatha Mohan, DO, MD, Surendra Basti, MD*

Course will present controversies in refractive surgery with management guidelines and video. Glaucoma fallacies, topographic dilemmas, and management strategies, topo-guided treatment in form fruste keratoconus and crosslinking, controversial case selections, flap, hydrophilic acrylic posterior chamber phakic IOL dilemmas, flap lift or PRK for enhancements, IOL calculation discrepancies, and iatrogenic ectasia management would be covered.

29-202
Surgery for Coexisting Cataract and Glaucoma: Uneasy Relationship
Ahmad K. Khalil, MD, PhD
Faculty: Alan S. Crandall, MD,* Amar Agarwal, FRCS,* Boris E. Malyugin, MD, PhD,* Soosan Jacob, FRCS, MS

Course will present various options for managing coexisting cataract and glaucoma, along with specific indications. Advantages of separate sessions versus a combined approach will be covered.

29-203
Multifocal IOLs: Standards, New Technologies, and Outlook in Future Developments in Europe and U.S.
Gerd U. Auffarth, MD*
Faculty: Florian T. Kretz, MD,* Damien Gatinel, MD,* Ramin Khoramnia, MD,* Mike P. Holzer, MD,* Richard L. Lindstrom, MD*

Lecture and video-based course will inform the attendees about the standard MIOLs with FDA approval in the USA and CE approval in Europe. The latest innovations in the MIOL development as well as an outlook in new multifocal optical systems will be given.
**From Basic to Advanced: Deep Anterior Lamellar Keratoplasty**  
Vincenzo Sarnicola, MD  
Faculty: Enrica Sarnicola, MD, Edward J. Holland, MD,*  
Sadeer B. Hannush, MD, Rajesh Fogla, MD, FRCS  
Course will analyze indications for surgery and various DALK techniques (big bubble, air-visco bubble, manual dissection and new opening bubble technique). Complications and PK conversion discussed. Functional outcomes, endothelial cell count and long-term survival reported. Clinical cases and videos will show how to manage DALK complications (ruptures, excessive trephination, disparity between donor and recipient) and how to do lamellar surgery in diseases of the corneal stroma; keratoglobo, extreme ectasia, infections, descemetocele and all ocular surface diseases.

**Mastering Femtophaco Surgery**  
Ronald Yeoh, MD*  
Faculty: Soon-Phaik Chee, FRCSE,* Ian Yeo, FRCS,  
Michael C. Knorz, MD,* Zoltan Z. Nagy, MD, PhD*  
Course will highlight the modification in surgical techniques required when changing from traditional ultrasound phacoemulsification to femtosecond laser-assisted cataract surgery. Presenters familiar with several femto platforms will use videos to present useful tips and strategies to avoid major complications.

**Phacoemulsification in Challenging Situations**  
Ramamurthy Dandapani, MD  
Faculty: Gaurav Luthra, MS,* Amar Agarwal, FRCS,*  
Chitra R. Ramamurthy, MD, Boris E. Malyugin, MD, PhD,*  
Mahipal S. Sachdev, MBBS, MD,* Arup Chakrabarti, MS  
Course will deal with challenging situations such as pediatric, subluxated, small pupil, and hard cataracts. The role of femto laser in complicated cataracts will also be dealt with. The pros and cons of the various options will be discussed with the help of videos.

**Actual Management in Pediatric Cataract**  
(Licensed by ALACCSA-R; presented in Spanish)  
Leticia Arroyo-Muñoz, MD  
Faculty: Liana O. Ventura, MD, PhD, Marcelo C. Ventura, MD,  
Claudia Palacio, MD, Sergio Ruiz-Esmenjaud, MD,  
Humberto Matiz-Moreno, MD  
Course will include the opinions of experts about the actual criteria in the management of congenital cataract using surgical videos and panel discussion.

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Mahipal S. Sachdev, MBBS, MD,* Arup Chakrabarti, MS  
Course will deal with challenging situations such as pediatric, subluxated, small pupil, and hard cataracts. The role of femto laser in complicated cataracts will also be dealt with. The pros and cons of the various options will be discussed with the help of videos.
29-211
Surgical Management of Coexisting Cataract and Glaucoma: Special Emphasis on Pseudoexfoliation
Bradford J. Shingleton, MD*

Course will review the multiple surgical options for managing cataract and glaucoma. Pseudoexfoliation impact on intraocular pressure, zonule issues during cataract surgery, and late IOL problems will be emphasized. Videos of cataract and glaucoma surgical techniques will be presented, including MIGS procedures.

29-212
Clinical Smartphone Photography
Clifford Terry, MD*

Course will teach the use of mobile device camera controls and lighting. Details of tracking follow-up of pterygia, tear-film analysis, corneal surface disorders, blepharitis, toric lens positioning, and other external diseases, along with HIPAA compliant photo archiving and emailing photos and treatment plans to referring physicians and patients.

Tuesday, April 29
1:00–2:30 pm

29-301
Surgical Management of Patients With Coexisting Cataract and Glaucoma
Desmond TungLien Quek, MBBS, FRCSEd
Faculty: Jocelyn Chua, FRCS(Edin), FAMS,
Shamira Perera, MBBS, FRCOpht,* Daniel H. Su, MBBS, FRCSEd,* Ching Lin Ho, MMed, FRCSE,* Rahat Husain, FRCOpht, MD,
David Goh, MRCOpht

Course will explore the options available in the management of patients with cataract and glaucoma and construct an algorithm to guide the clinician in the decision-making process. Topics such as phacotrabeculectomy, phaco-goniosynechiolysis, and sequential versus simultaneous surgery will be discussed. The format will be didactic lecture and interactive discussion.

29-302
Spontaneous Late in-the-Bag IOL Dislocation: Etiology, Risk Factors, Prevention, and Management
Ramón Lorente, MD, PhD
Faculty: Ike K. Ahmed, MD,* Richard S. Hoffman, MD,* Fernando González del Valle, MD, Betty Lorente, MD,
Javier Mendicute, MD, PhD, Victoria de Rojas, MD, PhD,
Paula Vázquez de Parga, MD

Course will review the current state of spontaneous late-in-the-bag IOL dislocation. Definition, risk factors, stage, management strategies, different reposition and replacement techniques, and preventive measures will be dealt with through lectures, videos, and panel discussion. The results of management of a series of 120 cases will be presented.

29-303
Comprehensive Review of Femtosecond Laser–Assisted Cataract Surgery
Baseer Khan, MD, FRCSC*
Faculty: Richard L. Lindstrom, MD,* Raymond M. Stein, MD, FRCSC, Y. Ralph Chu, MD*

Course will review the techniques and approach to femtosecond laser–assisted cataract surgery on the various platforms, as well as using the technology to enhance refractive outcomes. It will include videos and panel discussions.

29-304
Big Bubble, No Trouble: Step-by-Step Approach to Successful Deep Anterior Lamellar Keratoplasty
Alaa M. El-Danasoury, MD*
Faculty: John A. Seedor, MD,* Soosan Jacob, FRCS, MS

Video-based course will address patient selection criteria for DALK, details of the big-bubble technique, clinical results, and potential complications using clips from hundreds of cases, highlighting surgical pearls at each step and sharing experience gained from more than 2000 cases.
29-305  
**Room 254AB**

**Intraocular Lens Relocation or Explantation: Why, When, and How**

Suven Bhattacharjee, MS, DO*

*Faculty: Robert H. Osher, MD,* Ike K. Ahmed, MD,* Richard S. Hoffman, MD,* Arup Chakrabarti, MS,* Gaurav Luthra, MS,* Haripriya Aravind, MD

Video-based course will demonstrate relocation or explantation of IOLs in various situations. The decision to relocate or explant will be justified by the presenter. The safety, merits, possible complications, and demerits of standard as well as innovative techniques will be highlighted, discussed, and debated by the panel.

29-306  
**Room 257AB**

**Surgical Astigmatism Management for Cataract Patient: Preoperative Planning, Intraoperative Techniques, and Postoperative Results**

Kathryn M. Hatch, MD*

*Faculty: William B. Trattler, MD,* Vance M. Thompson, MD,* Louis D. Nichamin, MD,* Eric D. Donnenfeld, MD,* Jonathan H. Talamo, MD,* Neda Shamie, MD*

Course will provide an overview of surgical astigmatism management for cataract patients, including patients with keratoconus or previous LASIK/PRK/RK. Topics covered include topography interpretation, manual and femtosecond AK/LRI planning, toric/presbyopic/aspheric IOLs, timing for CXL in keratoconus/cataract patients, and postoperative management. Didactic sessions will be followed by case discussions.

29-307  
**Room 155**

**2014 Review of New Surgical Technologies and Devices (Presented in Russian)**

Elena Vialova, MD

*Faculty: Richard A. Lewis, MD,* Dee Hatcher, MT, CEBT, Oleg Kostin, MD, Zinaida Kataeva, MD, Mikhail Kremeshkov, MD

Course will feature U.S. ophthalmologists talking about the latest technologies and devices for the anterior segment to the Russian delegation of ophthalmologists in attendance. Q&A discussion will follow.

29-308  
**Room 258A**

**Tackling Posterior Capsule Rupture and IOL Implantation: Video-Based Course**

Priya S. Narang, MS

*Faculty: Amar Agarwal, FRCS,* Lisa B. Arbisser, MD,* Ike K. Ahmed, MD,* Abhay R. Vasavada, MS, FRCS,* Brian C. Little, FRCophth,* Marie José B. Tassignon, MD, PhD*

Course will showcase various challenging and complicated scenarios during surgery beginning from posterior capsule rupture to dropped nucleus and effective ways of management. Importance of vitrectomy and choice of correct method of IOL implantation as per the surgical scenario will be highlighted.

29-309  
**Room 258C**

**Vitrectomy by Anterior Segment Surgeon for Broken Posterior Capsule, Sinking Nucleus, and Dangling IOL**

Soosan Jacob, FRCS, MS

*Faculty: Amar Agarwal, FRCS,* David F. Chang, MD,* Robert H. Osher, MD,* Ike K. Ahmed, MD,* Ashvin Agarwal, MD

Video-based course will teach the PAL technique, including how to perform bimanual vitrectomy. Topics will include dropped nucleus, PC ruptures, and subluxated IOL.

29-310  
**Room 258B**

**Understanding Aberrations to Enhance Outcomes in Lens- and Cornea-Based Refractive Surgery**

Samaresh Srivastava, DNB*

*Faculty: Rohit Shetty, DNB, FRCS, Vaishali Vasavada, MS,* Ronald R. Krueger, MD, MSE,* Scott M. MacRae, MD*

Course will highlight the basics of clinical applications of aberrometry in day-to-day clinical practice for the cataract and refractive surgeon.

29-311  
**Room 259AB**

**Intraocular Lens Implantation in the Absence of Capsule Support**

Mohan Rajan, MD

*Faculty: Haripriya Aravind, MD, Amar Agarwal, FRCS,* Richard S. Hoffman, MD,* Robert H. Osher, MD,* Sujatha Mohan, DO, MD

Course will cover various techniques of IOL implantation in the absence of proper capsule support. This will include AC IOL, iris claw IOLs, posterior iris claw IOLs, sulcus fixation IOLs, scleral fixation IOLs, Hoffman technique, and glued IOL. Course will cover the details of each technique.
Attendees must be registered for the meeting to attend Skills Transfer Sessions. The sessions are open to physicians only. An additional registration is required for each session; fee for each is $320.

Registration for these sessions is available online at www.ascrs.org or by phone through Convention Data Services: Domestic (800) 748-5064 or International (508) 743-0538.

Attendees who are already registered for the ASCRS Symposium and have their email confirmation can add Skills Transfer Sessions by clicking on the link provided with the confirmation.

Please check the times and dates of the prerequisite courses and labs prior to purchase as there is some overlap. Once a lab is sold out, we will not re-sell cancellations from the lab site. All Skills Transfer Session sales are final.

In accordance with ACCME regulations, equipment from several corporate supporters will be used. We are unable to guarantee an attendee’s request to use a specific company’s equipment.

**SATURDAY, APRIL 26**

**STS1: Advanced Phaco**

8:00–9:30 AM  
**Room 160AB**

**Instructor:** Kevin M. Miller, MD*

**Faculty:** Gerd U. Auffarth, MD,*  
George H. Beiko, BM BCh, FRCS,*  
Clara C. Chan, MD, FRCS,*  
Uday Devgan, MD,*  
Steven Dewey, MD,*  
Marjan Farid, MD,*  
Sumit (Sam) Garg, MD,*  
D. Rex Hamilton, MD, MS,*  
Warren E. Hill, MD,*  
A. Tim Johnson, MD, PhD,  
James A. Katz, MD,*  
W. Andrew Maxwell, MD, PhD,*  
Randall J. Olson, MD, Jonathan B. Rubenstein, MD,*  
Eduardo S. Soriano, MD, Abhay R. Vasavada, MS, FRCS,*  
Matthew Wade, MD*

Skills phaco lab for the experienced surgeon, taught by the experts. Includes tips and latest techniques for phaco: microincisional phaco techniques, chopping, flipping, clear corneal incisions, capsule staining, advanced machine settings, capsular tension rings, and new IOL technology.

**STS2: Advanced Phaco**

1:00–2:30 PM  
**Room 160AB**

**Instructor:** Jason J. Jones, MD*

**Faculty:** Steve A. Arshinoff, MD, FRCSC,*  
Shamik Bafna, MD,*  
Thomas Bailey, MD, John C. Hart, MD,  
A. Tim Johnson, MD, PhD,*  
Douglas A. Katsev, MD,*  
Phillips Kirk Labor, MD,*  
James C. Loden, MD,*  
Boris E. Malyugin, MD, PhD,*  
Richard R. Schulze Jr, MD,*  
Nir Shoham-Hazon, MD,*  
Steven D. Vold, MD,*  
Mitchell P. Weikert, MD,*  
William F. Wiley, MD*

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**STS3: Anterior Vitrectomy**

3:00–4:30 pm  
**Room 160AB**

**Instructor:** Lisa B. Arbisser, MD*

**Faculty:** Steve Charles, MD,*  
Lorenzo Cervantes, MD,  
Deepinder K. Dhaliwal, MD, LAc,*  
John F. Doane, MD,*  
James Freeman, MD, Ricardo G. Gilkin, MD,  
Warren E. Hill, MD,*  
Michael J. Howcroft, MD,*  
Cathleen M. McCabe, MD,*  
Anita Nevyas-Wallace, MD,*  
Mauricio A. Perez, MD,*  
Steven G. Safran, MD, Michael E. Snyder, MD,*  
P. Dee G. Stephenson, MD,*  
Stuart Stoll, MD,*  
Robert J. Weinstock, MD,*  
Jeffrey Whitman, MD*

Skills lab features pars plana approach for the anterior segment surgeon: Vitrectomy techniques taught to the anterior segment surgeon from the anterior segment surgeon’s point of view. Nuances of pars plana incision technique, particulate identification of vitreous, vitrector settings, and manipulation will be covered. Principles for safe handling of complications will be stressed.

**Prerequisite:** Course 26-307  
Comprehensive Strategy for Unplanned Vitrectomy Technique for the Anterior Segment Surgeon

*Denotes financial interest; see Financial Interest Index for full listing
**SUNDAY, APRIL 27**

**ST4: LRI/PCRI**  
8:00–9:30 AM  
*Room 160AB*

Instructor: Jonathan B. Rubenstein, MD*

Faculty: Brock K. Bakewell,* MD, Jonathan M. Davidorf, MD,  
Steven J. Dell, MD,* John F. Doane, MD,*  
David R. Hardten, MD,* James A. Katz, MD,*  
Marián S. Macsai, MD, Parag A. Majmudar, MD,*  
David D. Markoff, MD, Louis D. Nichamin, MD,*  
Bruce D. Nichols, MD, Parag Parekh, MD, MPA,*  
Elizabeth Yeu, MD*

Skills lab will demonstrate techniques to control postoperative astigmatism in the cataract patient. Intraoperative corneal relaxing incisions will be demonstrated.

**ST3: Iris Suture**  
1:00–2:30 PM  
*Room 160AB*

Instructor: Steven B. Siepser, MD,FACS*

Faculty: George H. Beiko, BM BCh, FRCSC,* Toby Chan, MD,  
Gary P. Condon, MD,* David A. Crandall, MD,* Neel Desai, MD,*  
Nicole R. Fram, MD,* Sebastien Gagne, MD, FRCSC,*  
David A. Goldman, MD,* Wesley Herman, MD,  
Jason J. Jones, MD,* Kevin M. Miller, MD,*  
Gregory S. H. Ogawa, MD, Michael E. Snyder, MD,*  
Devesh K. Varma, MD, FRCSC,* Steven D. Vold, MD,*  
Douglas Wisner, MD

Skilled senior surgeons will call upon their time-honored techniques for using sutures in the anterior segment management of complications and anomalies. From simple iris dialysis repair, cycloplegia repair options, traumatic and congenital colobomas to haptic recovery and stabilization of IOLs. Lab will provide something to have in your pocket when a surgical challenge occurs.

Prerequisite: Course 26-407  
Iris Suture Repair and IOL Fixation

**ST4: ECCE/SICS**  
3:00–4:30 PM  
*Room 160AB*

Instructor: Bonnie An Henderson, MD*

Faculty: Maria E. Aaron, MD, Amar Agarwal, FRCS,*  
Athyia Agarwal, MD, Niraj K. Agrawal, MS,  
Haripriya Aravind, MD, Surendra Basti, MD,* Arup Bhaumik, MS,  
Arup Chakrabarti, MS, Soosoon Jacob, FRCS, MS,  
Joung Kim, MD, Susan M. MacDonald, MD,  
Minu M. Mathen, MD, Jeff H. Pettey, MD,  
Amulya N. Sahu, MBBS, MS, Samaresh Srivastava, DNB,*  
Vaishali Vasavada, MS,* Viraj Vasavada, MS*

Skills lab will demonstrate primary ECCE and SICS surgery, how to convert from a clear corneal phacoemulsification to either an ECCE or SICS approach, and how to deal with complications of ECCE surgery.

Prerequisite: Course 27-308  
Extracapsular Cataract Extraction Surgery: Endangered Procedure

**MONDAY, APRIL 28**

**ST6: Trabs and Tubes for the Comprehensive Ophthalmologist**  
8:00–9:30 AM  
*Room 160AB*

Instructor: Nir Shoham-Hazon, MD

Faculty: Ike K. Ahmed, MD,* Yaniv Barkana, MD,  
Marc G. Bodman, MD, Toby Chan, MD,  
Sebastien Gagne, MD, FRCSC,* Noa Geffen, MD,  
Paul Harasymowycz, MD,* Audrey Kaplan-Messas, MD,  
Shmuel Levartovsky, MD,* Guillermo Meerhoff, MD,  
Garfield Miller, MD,* Michael F. Oats, MD,  
Nathan M. Radcliffe, MD,* Douglas J. Rhee, MD,*  
Hady Saheb, MD, MPH*

Skills lab will offer current and future eye surgeons, comprehensive ophthalmologists, ophthalmology residents, and surgeons of interest hands-on experience in performing trabeculectomies and tube shunts with the one-on-one guidance of key opinion leaders and highly experienced glaucoma surgeons.

Prerequisite: Course 27-410  
Trabeculectomies and Tube Shunts for the Comprehensive Ophthalmologist

*Denotes financial interest; see Financial Interest Index for full listing*
Intraocular Surgery
(Cataract and Refractive)

Virtual Reality Versus Donor Eye Training for Learning Capsulorhexis: Clinical Trial
Niraj K. Agrawal, MS
Coauthors: Haripriya Aravind, MD, Tanpreet P. Singh, MS, Puja Bhuwania

Comparison of Visual Results of 4 Diffractive Multifocal IOLs
Fernando Aguilera-Zarate, MD
Coauthor: Luis Escaf, MD*

Endoillumination-Assisted Cataract Surgery in Eyes With Corneal Opacities
Ruba Allobaidy, MBChB
Coauthors: Jia Y. Ng, MBChB, MAcadMed, Sathish Srinivasan, FRCSed, FRCOphth*

Understanding and Correcting for Toric IOL Refractive Surprises
Noel Alpins, MD, FACS*
Coauthors: George Stamatelatos, OD,* James K. Ong, BOptom*

Aphakic Refraction Method for IOL Power Calculation in Patients With Previous Laser Refractive Surgery
Nathali Alvarez, MD
Coauthors: Mary C. Oliveros, MD, Aletzaida M. Chirguita, MD, Marco Rios, MD

Comparison of Biometric Measurements Obtained Using 2 Noncontact Optical Biometers
Raphaël Amar, OD

Refractive and Visual Outcomes at Postoperative Year 2 in a Randomized Clinical Comparison of Accommodating and 2 Multifocal IOLs
Robert Edward T. Ang, MD*

Impact of Non-Physician Cataract Counselors on Patients’ Surgical Knowledge and Satisfaction
Haripriya Aravind, MD
Coauthors: Sathya Ravilla, MD, Paula Anne Newman-Casey, MD, MS, Alan L. Robin, MD*

Usefulness of Semicircular Capsulotomy Marker in Surgical Training
Takeshi Arima, MD
Coauthors: Hisaharu Suzuki, MD, Mayumi Iwama, MD, Tomoyuki Kunishige, MD, Toshihiko Shiwa, MD, Hiroshi Takahashi, MD

Capsular Anchor in Complicated Cases
Ehud I. Assia, MD*
Coauthors: Yokrat Ton, MD, Adi Michaeli, MD

Femtosecond Laser-Assisted Cataract Surgery: Effective and Average Phaco Time and Endothelial Cell Loss in Contralateral Comparative Study
Gerd U. Auffarth, MD*
Coauthors: Ramin Khoramnia, MD,* Anna Fitting, MSc,* Mary Safwat Aziz Attia, MD,* Florian N. Auerbach, MD,* Mike P. Holzer, MD*

First Application of New Preloaded Aspheric Hydrophobic IOL
Bulat Aznabaev, DSc*
Coauthors: Timur Mukhamadeev, MD,* Zilya Yanbukhtina, MD,* Manal Gizatullina, MD, PhD,* Tagir Dibaev, MD, Vadim Makhmutov, MD

Clinical Reliability of Portable Autorefractor for Cataract Postoperative Patients
Kunaal R. Bafna, BS
Coauthor: Anil K. Pitalia, MBA, FRCS, MBChB

Toric Phakic IOL in Keratoconus Patients: 10-Year Follow-up
Juan F. Batlle, MD*

Effect of Other-Eye Patching on Fixation and Patient Cooperation During Topical Phaco
Suven Bhattacharjee, MS, DO*

*Denotes financial interest; see Financial Interest Index for full listing
**Evaluation of Pharmacokinetic Profile of Novel Ophthalmic Formulation of Loteprednol Etabonate**
Kim Brazzell, PhD*
Coauthors: Lisa R. Schopf, PhD,* Elizabeth Enlow, PhD,* Alexey Popov, PhD,* James Bourassa, PhD,* Hongming Chen, ScD

**Functional Outcome After Implantation of New Aspheric Trifocal IOL**
Detlev R. H. Breyer, MD*
Coauthors: Hakan Kaymak, MD,* Karsten Klabe, MD,* Franziska Dillner, PhD, Corinna Pohl, PhD*

**Flexible Iris Fixation of Phakic IOL: Patient Satisfaction**
Camille R. Budo, MD*

**Evaluation of Visual Performances of New 2.2 mm Preloaded Aspheric IOL**
Fabrizio I. Camesasca, MD*
Coauthor: Matteo Piovella, MD*

**Aspheric Apodized Diffractive Multifocal IOL With +2.5 D Add Power: 6-Month Results**
Francesco Carones, MD*

**Premium IOL Implantation Calculations in Post-LASIK Cataract Eyes Using ASCRS IOL Calculator**
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**Amputation of Visually Significant Detached Descemet Membrane Flap After Cataract Surgery: Alternative Approach to Complicated Problem**
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**Comparative Study of Visual Quality and Performance of 3 Diffractive Multifocal IOLs**
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**Positional Stability of Haptics of Phakic IOL: 6-Month Follow-up**
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**Visual Outcomes and Quality of Life After Diffractive Multifocal IOL Implantation After Laser Refractive Cataract Surgery: Prospective Analysis**
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**Negative Dysphotopsia Secondary to Poor Wound Construction in Femtosecond laser–Assisted Cataract Surgery**
Jonathan M. Davidorf, MD

**Comparison of 2 Nonsteroidal Antiinflammatory Eyedrops in Preventing Cystoid Macular Edema: Ketrolac Tromethamine and Nepafenac**
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**Novel Approach to Scleral Refixation of a Single Dislocated Haptic of a Scleral-Fixated IOL**
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Intraocular Pressure Elevation After Cataract Surgery: 
Results of Residents and Senior Staff at Henry Ford Health System 
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Combined Phacoemulsification Surgery 
With Intravitreal Ranibizumab Injection 
in Cataract and Diabetic Macular Edema 
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Phacoemulsification in True Exfoliation 
of the Lens Capsule 
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Visual Effects of Additional Short-Wave Filtering 
in Patients With Clear Intraocular Lenses 
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Reduction in Laser Vision Correction Enhancement 
Rate After Introduction of Intraoperative 
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Intraocular Pressure Reconstitution and Maintenance 
for Cadaveric Porcine Eyes in Simulated Wet-Lab Experience 
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Effects of Anticoagulant Therapy on Risk 
for Complications in Cataract Surgery 
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Visual Rehabilitation in Keratokonus 
After Crosslinking With Toric Phakic IOL: 
A Case Presentation 
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Surgical Management of Encapsulated Lens Cyst 15 
Years After Refractive Lensectomy 
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Comparison of Manual Small-Incision Cataract 
Surgery and Phacoemulsification Cataract Surgery 
in Resident Setting 
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Effect of Steepest-Meridian Clear Corneal Incision 
in Reducing Preexisting Corneal Astigmatism 
Using Meridian-Marking Method or Surgeon’s 
Intuition 
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Comparison of Femtosecond Laser Capsulotomy and 
Manual Continuous Curvilinear Digital-Image-Guided 
Capsulorhexis 
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Retrospective Analysis of Clear Lens Exchange 
and Multifocal IOL Implantation 
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Temperature Alteration in Aqueous Humor 
by OVD Materials During Phacoemulsification 
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Dilating Pupil During Cataract IOL Surgery 
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Pilot Trial of Loteprednol Etabonate Gel 0.5% 
at BID Dosing in Cataract Surgery Patients 
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Calculation of IOL Power Using Average Equivalent Keratometry Readings in Eyes With Nonprogressive Keratoconus
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Retrospective Comparison of Accuracy of Standard Preoperative IOL Calculations Versus Intraoperative Calculations Using Wavefront Aberrometer
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Physics of Folding in Cataract Surgery
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Phacoemulsification in Eyes With Post-Trabeculectomy Choroidal Detachment
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Surgical Outcome and Safety Profile of Posterior Chamber Phakic and Iris-Claw-Fixed IOLs in Moderate to High Myopic Astigmatism
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Cataract Surgical Treatment in Patients With Chronic Uveitis
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Effect of IOL Location on Visual Improvement and Complications in Secondary IOL Implantation
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Multicenter Evaluation of Patients Bilaterally Implanted With Clear 1-Piece Aspheric Toric IOL
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Analysis of Opacified Hydrophilic IOLs After DSAEK
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Results After Implantation of Aspheric Toric IOL
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Intraocular Lens Power Calculation After Corneal Refractive Surgery: Using Corneal Height in Anterior Segment OCT
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Case Report of Uveitis and Papilledema With High IOP After Nd:YAG Laser Capsulotomy in Patient With Secondary Cataract
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Comparative Aspects of Thermal Effect in Energy Using Cataract Surgery
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Retinal Pigment Epithelium After Energetic Cataract Surgery
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Management of Early IOP Rise After Implantation of Latest-Model Posterior Chamber Phakic IOL
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Intraocular Lens Power Calculation After Radial Keratotomy
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Evaluation of New Multifocal IOL With Lower Near Addition
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Outcomes of Phakic IOL Exchange
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Advanced Cataract Surgery With Multifocal IOL Implantation: 7-Year Follow-up
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Effect of Adjustments in Apodization Pattern of Diffractive Multifocal IOLs on Straylight Measurements—Disability glare

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Comparison of Cumulative Dissipated Energy and Operative Time Between Femtosecond Laser–Assisted Cataract Surgery and Traditional Phacoemulsification Cataract Surgery

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Bilateral Dematiaceous Mold Endophthalmitis After Cataract Surgery: Case Series

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Clinical Evaluation of Femtosecond Laser–Assisted Cataract Surgery With Multifocal IOL

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Cumulative Nd:YAG Laser Rates After Large Series of MICS IOL Implantations

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Assessment of Mechanical Properties of Hydrophobic Acrylic Posterior Chamber IOL Implantation

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Intraoperative Wavefront Aberrometry: New Technology to Optimize Refractive Outcome in Patients With Premium IOLs

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Correlating OCT With Lens Density and Cumulative Dissipated Energy Required During Cataract Extraction

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First Clinical Experience With Femtosecond Laser–Assisted Cataract Surgery

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Use of Femtosecond Laser–Assisted Cataract Surgery in Complex Cases

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Analysis of Wave-Shaping Automated System Versus Combination Torsional-Longitudinal Phacoemulsification in Brunescent Cataract

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Results of PCO Prevention by Ultrasound Capsule Polishing After 3 Years

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Phaco Needle Design Parameter Effects: Factorial Design Modeling

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Effect of Intraocular Enoxaparin on Postoperative Fibrosis in Juvenile Rabbit Model of Lensectomy

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Presbyopia Correction With Multifocal Toric IOL Implantation

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Relationship Between Posterior Capsule Wrinkle and Intraocular Lens

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Residual Refractive Effect of Presbyopic LASIK Omnifocal Corneal Ablation With a Monofocal Spherical IOL: Case Report

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Long-Term Results of Multifocal IOL Implantation
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Surgically Induced Astigmatism After Cataract Surgery With Different Wound Sizes
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Secondary Piggyback IOL Implantation for Correction of Residual Refractive Error Following Cataract Surgery
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Refractive Results After Femtosecond Laser–Assisted Capsulotomy
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Long-Term PCO Preventive Effect of Capsule Bending Ring
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Comparison of Visual Performance and Optical Quality With 2 Multifocal IOLs
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Visual Quality After Aspheric Diffractive Multifocal IOL Implantation in Eyes With High Myopia
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Effects of Nigella Sative Oil, Thymoquine, Propolis, and Caffeic Acid Phenethyl Ester on Radiation-Induced Cataract
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Rotational Stability of Diffractive Multifocal Toric IOL
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Digital Imaging Analysis of Pupil Shape and Size in Reference to Cornea Apex in Cataract Surgery
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Visual Outcomes of Diffractive Multifocal Toric IOL
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Literature Review to Better Determine Risk for Cataract With Collagen Copolymer IOLs
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Total Corneal Astigmatism Correction With Limbal Relaxing Incisions Made by Femtosecond Laser System
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Toric Multifocal IOL to Achieve Emmetropia and Near Vision: 3-Year Results
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Evaluation of PSF Imaging After Bilateral Implantation of Accommodating or Multifocal IOLs
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Comparison of the Results 3 and 12 Months After Implantation of Aspheric Diffractive Trifocal IOL
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Comparison of Refractive Outcomes After Diffractive Multifocal IOL Implantation: Femtosecond Laser Versus Conventional Phacoemulsification
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**Thick Flap–Related Ectasia**
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**Intraocular Pressure on Postoperative Day 1 After Femtosecond Laser–Assisted Phacoemulsification**
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**Comparison of the Effects of Bright Light, Phenylephrine 2.5%, Tropicamide 1%, and Pilocarpine 2% on Anterior Chamber Depth and IOL Power**
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**Japanese Survey of Prophylactic Intracameral Moxifloxacin Injection**
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**Calculation of Optical Power of Toric IOL at Pathological Cornea**
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**Evaluation of New Biaspheric +3.0 D Nonblended Segment Multifocal IOL**
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**First Experience of Glistening-Free Hydrophobic Acrylic IOL**
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**Resident Self-Reported Preparedness for Cataract Surgery**
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**Successful Cataract Surgery and Iridoplasty in Patient With Megalocornea**
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**International Impact of Internet-Based Phacoemulsification Didactic**
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**Comparing Objective Quality of Vision of Spherical, Aspherical, and Multifocal IOLs**
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**Cyst in Anterior Chamber Masquerading as Anteriorly Dislocated Cataract**
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**Comparing Biometric Devices for Similarity of IOL Power Measurements**
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**Intraocular Lens Power Calculation in Cases of Anterior Segment OCT-Detected Subclinical Posterior Keratoconus**
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**Comparison of Contrast Sensitivity of 1-Piece Hydrophobic Acrylic Aspheric Monofocal and Multifocal IOLs**
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**Five-Year Changes in Axial Length After Iris-Fixated Phakic Intraocular Lens Implantation**
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100 First Cases of Cataract Surgery Using Femtosecond Laser at Tranjan Eye Hospital
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Epidemiology of Acute Endophthalmitis After Cataract Surgery in Mexican Hospital for 5-Year Period: Incidence and Outcome
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Single-Center Results of Safety and Efficacy Evaluation of Sustained-Release Dexamethasone After Cataract Surgery
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Effect of Surgeon Learning on Intraoperative Wavefront Aberrometry Over 1 Year
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New Optical Technology for Providing Extended Range of Vision
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Comparison of Early Experience With Intraoperative Wavefront Aberrometry IOL Power Calculations in Laser-Assisted Versus Conventional Cataract Surgery
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Light Transmittance of Cadaver-Eye Explanted Single-Piece Hydrophobic Acrylic IOLS With Surface Light Scattering
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Intraocular Polyimide IOL Haptic Breakage Long-Term Postoperatively
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Keratorefractive

Clinical Outcomes of Transepithelial Photorefractive Keratectomy in Hyperopia: Follow-up Study
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Refractive-Neutral Phototherapeutic Keratectomy for Management of Anterior Corneal Dystrophies With Coexisting Refractive Errors
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Comparison of Visual Acuity and Higher-Order Aberrations After Femtosecond Lenticule Extraction and Small-Incision Lenticule Extraction
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Improving Visual Acuity in Accommodating IOL Patients With Corneal Inlay
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Evaluation of Subconjunctival Injection of Bevacizumab in Early Corneal Graft Rejection
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Aberration-Free LASIK With Excimer Laser
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Effect of Chatter Lines and Opaque Bubble Layer on Enhancement Rate for Optimized Femto-LASIK
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Evaluation of Corneal Sensation After Accelerated Corneal Collagen Crosslinking Treatment of Keratoconus
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Photorefractive Keratectomy and LASIK After Conductive Keratoplasty: Case Series
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Keratorefractive Surgery in Presbyopic 40-Year-Old Woman—PresbyLASIK With Incomplete Disc
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Comparison of Mechanical and Transepithelial Debridement in Photorefractive Keratectomy for Myopia: 1-Year Follow-up Results
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Visual Acuity Outcomes of 2 Target Locations for Inlay Implantation in Post-LASIK Patients
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Assessing Ectasia Susceptibility Prior to LASIK: Role of Age and Residual Stromal Bed in Conjunction With Belin-Ambrósio Deviation Index
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Comparison of Contrast Sensitivity and Higher-Order Aberrations After Small-Incision Lenticule Extraction and Femtosecond LASIK for Myopia
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Intraoperative Flap Predictor
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Self-Retained Amniotic Membrane for Post-PRK Keratitis
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Corneal Flap Analysis of New Short-Pulse Femto-LASIK With Optical Coherence Tomography
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Binocular Treatment Varifocal: 1-Year Experience in Chile
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Visual Results After LASIK: Femtosecond Laser Versus Mechanical Microkeratome
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Three-Dimensional Epithelial Assessment in Keratoconus
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Monochromatic Optical Aberrations in Myopic and Astigmatic Anisometropia
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Femto Laser–Assisted LASIK Versus Laser-Assisted Subepithelial Keratectomy for Correction of High Myopia and Astigmatism
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Accelerate Transepithelial Corneal Collagen Crosslinking for Progressive Keratoconus
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Rejuvenation of Visual Age After Laser Anterior Ciliary Excision to Restore Dynamic Range of Vision
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Wavefront-Guided PRK for Refractive Error Following Cataract Extraction With Aspheric IOL Implantation
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One-Year Dynamic Range of Visual Outcomes After Laser Anterior Ciliary Excision Procedure
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Novel Fully Customizable Topography CXL Applications for Refractive Corneal Changes
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Comparative Study of Stromal Bed of LASIK Flaps Created With Femtosecond Laser and Mechanical Microkeratome
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Estimation of Femto-LASIK Operation Results With Femtosecond Laser Microkeratome After Radial Keratotomy
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Comparison of Residual Stromal Bed Thickness and Flap Thickness at LASIK and Post-LASIK Enhancement in Femtosecond Laser–Created Flaps
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Corneal Biomechanical Metrics Using Dynamic Ultra-High-Speed Photography and Tomography Scheimpflug Camera to Distinguish Normal and Keratoconic Corneas
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Improving Keratoconus Susceptibility Screening on Refractive Surgery Using Wavelet Computational Model and Learning Machine Techniques
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Comparison Study of Corneal Sensation and Self-Reported Dry-Eye Symptoms After Myopic LASIK With Inverted Bevel-in Side Cut Versus Standard Bevel-out Side Cut
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Coauthors: Christopher S. Sales, MD, MPH, Jennifer Kung, MD

Comparison of Femto-LASIK and SBK LASIK With Mechanical Microkeratome
Rafael A. Mateo Camaran, MD
Coauthor: L. Felipe Vejarano, MD

Comparing Near Visual Acuity Results With 2 Approaches to Presbyopic Treatment: PresbyLASIK Versus Multifocal Diffractive IOL
Juan S. Naves, MD*

Accelerated Corneal CXL for Keratoconus in Pediatric Patients: 1-Year Results
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Coauthors: Ugur Celik, MD, Ercument Bozkurt, Ahmet Demirok, MD, Omer F. Yilmaz, MD

Presbyopia Surgery on Cornea Through Modification of Spherical Aberration
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Objective Evaluation of Novel Femtosecond Laser Flap Parameters in Opaque Bubble Layer Incidence: Digital Analysis
Gregory J. Pamel, MD
Coauthors: George Asimellis, PhD,* A. John Kanellopoulos, MD*

Scheimpflug Corneal Topographer and Combined Placido Disc and Anterior Segment OCT Measurements of Corneal Topography Before and After LASIK
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Comparison of Depth of Focus and Mesopic Contrast Sensitivity in Small-Aperture Inlay, Accommodating IOL, and Multifocal IOL Patients
Jay S. Pepose, MD, PhD*

*Denotes financial interest; see Financial Interest Index for full listing
Comparison of Keratome LASIK Versus Femtosecond LASIK Versus PRK After Penetrating Keratoplasty
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Enhanced Ectasia Susceptibility Screening Based on Clinical Data and Scheimpflug Corneal Topographer
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Comparison of Visual Outcomes After Wavefront-Guided and Wavefront-Optimized LASIK and PRK
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Effect of Surgical Safety Checklist for Refractive Procedures
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Ray-Tracing Aberrometry Measurement of Optical Properties Contributing to Dynamic Accommodative Power After Laser Anterior Ciliary Excision Procedure
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Optical Quality and Levels of Tear Protein Lacritin After PRK
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Three-Year Postoperative Objective and Subjective Results of Small-Aperture Corneal Inlay for Correction of Presbyopia
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Analysis of 2-Year CXL Results in Keratoconus Patients
Mohammed Iqbal H. Saleem, MD

Evaluation of the Therapeutic Effect of Corneal CXL in Treatment of Resistant Corneal Ulcer
Mohammed Iqbal H. Saleem, MD

Comparison of Higher-Order Aberration Measurements From Hartmann-Shack Fourier-Based and Tscherning Zernike-Based Aberrometers in LASIK Patients
Christopher S. Sales, MD, MPH
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Repeatability of Measures of Corneal and Anterior Segment Scheimpflug-Based Tomography in Normal and Keratoconic Eyes
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Effect of Mitomycin-C on Haze Formation in Rabbit Cornea After PRK: Immunohistochemical Study
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Interesting Case of Collagen Copolymer IOL Exchange
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Tear Lacritin and Implications in Dry Eye After Photorefractive Keratectomy
Rose Kristine C. Sia, MD
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Influences on Enhancement Rates in Laser Vision Correction
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*Denotes financial interest; see Financial Interest Index for full listing
Cornea

Fungal Keratitis Due to *Exophiala Phaeomuriformis*

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Topical Cyclosporine A Therapy in Children With Ocular Rosacea and Phlyctenular Keratoconjunctivitis

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Bevacizumab in Complicated Anterior Segment Disease

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Comparison of Donor Insertion Device to Sheets Glide Technique in DSAEK: 3-Year Outcomes

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Repeat Penetrating Keratoplasty in Patients With Herpetic Stromal Keratitis

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Three-Dimensional Epithelial Evaluation Following Myopic LASIK

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Descemet Membrane Endothelial Keratoplasty: Challenges and Lessons Learned After First 10 Cases

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Management of Corneal Neovascularization After Cement Injury

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Effect of Base Curve of Silicone Hydrogel Bandage Contact Lenses on Post-PRK Outcomes
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Hydrogel Corneal Inlay to Treat Pseudophakic Presbyopia
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Retrospective Review of Incidence of Abnormal Corneal Topography in Patients Scheduled for Cataract Surgery
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Multifocal Presbyopic Corneal Treatment: Vejarano Method
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Suberoylanilide Hydroxamic Acid Versus Mitomycin C: Comparative Study of Toxicity in Adjunctive Treatment of Corneal Haze After PRK in Rabbit Model
Michael Waggoner, DO
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Crosslinking for Post-LASIK Ectasia: Long-Term Results
Aydin Yildirim, MD

Corneal Biomechanics in Eyes Implanted With Small-Aperture Corneal Inlay
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Comparison of Placido Disk and Scheimpflug Generated Data in Topography-Guided Normalization in Keratoconus Combined With CXL Athens Protocol
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Agreement of Pachymetric Measurements in Normal and Keratoconus Eyes Using Spectral OCT and Scheimpflug Placido Topographer
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Real-Time Intraoperative OCT Imaging: Lamellar Keratoplasty and Donor Tissue Preparation
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Elemental Analysis of Sunflower Cataract in Wilson Disease
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Prophylactic Removal and Microbiological Evaluation of Calcified Plaques After Pterygium Surgery
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Paracentral Corneal Melting in 4 Patients With Chronic Graft-Versus-Host Disease
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Association of Thickness and Prolapse of Mitral Valve and Keratoconus
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Combined Same-Day Femtosecond Laser–Assisted ICRS and Transepithelial Fast CXL for Keratoconus
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Two Cases of Spontaneous Reattachment of Descemet Membrane
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Neurotrophic Keratopathy Following Pars Plana Vitrectomy and Indirect Ophthalmoscopic Laser
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Possible Effect of Local Ascorbic Acid on Induced Corneal Abrasion in Male Rabbits
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Paradoxical Effect of Artificial Tear Drop Use on Signs and Symptoms of Dry-Eye Disease
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Corneal CXL With Hypo-osmolar Riboflavin Solution Versus Transepithelial CXL for Keratoconus With Thin Corneas
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Iontophoresis in Transepithelial Corneal CXL
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Prospective Randomized Trial Comparing Outcomes of Combined Acupuncture and Lubricants Versus Lubricants Alone for Treatment of Dry Eyes in Singapore: Interim Analysis
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Cataract Surgery in Patient With Superiorly Located Keratoconus
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Outcomes of Type 1 Boston Keratoprosthesis at the University of Toronto Health Network
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Interface Fungal Keratitis Status Post DSAEK
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Use of Combined Biomechanical and Tomographic Data to Detect Keratoconus
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Relationship Between Age, Axial Length, Anterior Chamber Depth, Corneal Steepness, and Corneal Thickness
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Role of Physician Experience in Pterygium Surgical Outcomes
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Case of Pure Mucosal Neuroma Syndrome With Prominent Corneal Nerve
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Modified Anthrax Toxin Activated By MMPs: Therapeutic Approach for Treatment of Corneal Neovascular Disease
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Treatment of Ligneous Conjunctivitis in a Newborn
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Biometric Risk Factors Involved in Corneal Surface Complications With Soft Contact Lens Wear
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Characterization of Zig-Zag Femtosecond Laser-Assisted Keratoplasty Wound Configuration Using Anterior Segment OCT
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Descemet-Stripping Automated Endothelial Keratoplasty With Anterior Chamber IOLs: Complications and 3-Year Outcomes
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Risk Factors for Graft Failure After DSAEK
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Correlation of Front Surface Indices (Topometric Indices) Obtained With Placido-Disk-Based Topography and Rotating Scheimpflug Tomography
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Comparison of Keratometry Measurements by High-Resolution Scheimpflug Imaging and Conventional Topography in Normal and Keratoconus Eyes
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Comparative Study of Accelerated and Conventional Corneal CXL for Keratoconus: 1-Year Results
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Comparison of Aspheric and Asphero-toric Elevation Maps in Normal and Keratoconic Eyes Using Placido Scheimpflug Camera
Engy Mohamed Mostafa, MD, PhD

Recipient Descemet Membrane Removal in Pseudo-Anterior Chamber After DALK With Retention of Donor Descemet Membrane
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Transepithelial CXL With or Without Intrastromal Corneal Ring Segment Implantation With More Than 1-Year Follow-up
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Clinical and Histopathologic Examination of Conjunctivochalasis
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Whorl-like Pigmented Corneal Deposits in a Patient with Severe Atopic Keratoconjunctivitis
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Bilateral DSAEK in 4-Month-Old With Presumed Congenital Hereditary Endothelial Dystrophy
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Corneal CXL in Pediatric Keratoconus: Epithelium-off Versus Transepithelial CXL
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Multicenter Trial of DMEK: First Case Series of 18 Surgeons
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Effect of Punctal Occlusion on Osmolarity in Dry-Eye Patients
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Correlation Between Sex Hormone Levels and Corneal Hysteresis and Resistance Factor During Menstrual Cycle
Mohammadreza Peyman, MD
Coauthors: Azam Bakhtiar, MD, Voon Pei Loo, Visvaraja Subrayan

Herpes Simplex Virus Keratitis Recurrence Rates With Topical Corticosteroid Use
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Use of Besifloxacin Ophthalmic Suspension 0.6% in Treatment of Bacterial Keratitis
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Comparison of Postoperative Astigmatism After 2.8 and 3.2 mm Clear Corneal Incision in Cases of Phacoemulsification Cataract Surgery
Huseyn E. Simsek, MD
Coauthors: Gokhan Kaya, MD, Yusuf A. Yilmaz, MD

Dose-Dependent Inhibition of Multidrug Resistant *Pseudomonas Aeruginosa* in Vitro With Combination of Riboflavin and Ultraviolet-A Light
Mukesh Taneja, MD

Safety, Efficacy, and Pachymetry Variation During and After CXL in Thin Keratoconic Corneas With Different Protocols
Mukesh Taneja, MD
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Use of Single Donor Cornea for 2 Lamellar Transplantation Procedures: DMEK and DALK
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Conventional Versus Accelerated Corneal CXL for Keratoconus
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Early Ocular Biomechanical Changes After Femtosecond Laser–Assisted Refractive Cataract Surgery
Bruno F. Valbon, MD
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Corneal Biomechanical Characteristics After Penetrating Keratoplasty by Femtosecond Laser
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Outcomes of Keratoconus Treated With Combination of CXL, Conductive Keratoplasty, and Intrastromal Corneal Ring Segments
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**Glaucoma**

Short-Term Outcomes With Porous Plate Valved Glaucoma Implant
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Aqueous Humor Dynamics in a Patient With Chronic Hypotony, Cyclodialysis Clefts, and Chorio-Retinal Detachment
Francisco Castillo, MD
Coauthors: Sejal Amin, MD, Arthur J. Sit, MD, Raymond Iezzi, MD, MS, Jay W. McLaren, PhD, Cheryl L. Khanna, MD

Prevalence of Ocular Hypertension After Refractive Vision Correction for Myopic Astigmatism
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Use of Biodegradable Collagen Matrix Implant as Adjunct in Valve Implantation for Uveitic Glaucoma
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Comparison of IOP Changes After Phacoemulsification in Eyes With and Without Pseudoexfoliation
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Evaluation of Efficacy of Phacotrabeculotomy in Management of Cases With Coexisting Cataract and Glaucoma
Ahmad K. Khalil, MD, PhD

Transscleral Diode Cyclophotocoagulation to Tackle Refractory Cases of Pediatric Glaucoma
Ahmad K. Khalil, MD, PhD

Changes of Corneal High-Order Aberrations and Anterior Chamber Parameters After Trabeculectomy Using Scheimpflug Corneal Topographer
Byoung Seon Kim, MD
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Diurnal Variation in Anterior Segment Angle Structures Using OCT
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Intraocular Pressure Changes in Nonglaucomatous Patients With Pseudoexfoliation After Clear Corneal Phacoemulsification
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Bimatoprost 0.01% or 0.03% After Latanoprost 0.005% Treatment in Glaucoma or Ocular Hypertension: Two Randomized 12-Week Trials
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Glaucoma Surgical Technique Modifications for Patients Wearing Scleral Lenses
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Outcomes of Patterned Laser Trabeculoplasty Versus Selective Laser Trabeculoplasty in Open-Angle Glaucoma
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Histological Effects of the Use of Bevacizumab in the Surgical Site After Trabeculectomy
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Phacolytic Glaucoma
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Ability of Spectral-Domain Optical Coherence Tomography to Predict Humphrey Visual Field Defects in Patients With Open-Angle Glaucoma

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Blockage of Glaucoma Filtration Device by Microlens Particles After Cataract Surgery

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Undetected Angle Closure in Patients With Diagnosis of Open-Angle Glaucoma

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Differential Effect of Glaucoma Medications on Dry-Eye Incidence

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Risk for Glaucoma in Patients With Hemifacial Spasm

Rengin Yildirim, MD

Assessment of Central Corneal Thickness in Ocular Hypertension

Yusuf A. Yilmaz, MD

Evaluation of Ocular Pulse Amplitude-Related Parameters Measured by Dynamic Contour Tonometry and Ocular Blood Flow Analyzer

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Pediatric

Pediatric Traumatic Orbital Subperiosteal Hematoma: Case Series With Literature Review

Hamidreza Hasani, MD

Outcome of Diffractive Multifocal IOL Implantation in Pediatric Cataract Surgery

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Aphakic IOL for Children: Multicenter Prospective Study

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Retina

Accuracy of Axial Length Measurements Using Partial Coherence Interferometry in Silicone-Oil-Filled Eyes

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Fluocinolone Acetonide Intravitreal Implant for Diabetic Macular Edema: Case Report of Patient With Therapy-Resistant Diabetic Maculopathy

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Topical Cyclosporine A 0.05% for Recurrent Anterior Uveitis

Monica Michelotti, MD
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Retinal Detachment Surgery After Large Posterior Capsulotomy With Nd:YAG Laser

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Tissue Plasminogen Activator and Pneumatic Displacement in Treatment of Submacular Hemorrhage

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Comparison of Topical Proparacaine and Tetracaine Anesthesia for Intravitreal Ranibizumab Injections

Luke Nicholson, FRCOphth

Factors Affecting Visual Outcome of Myopic Choroidal Neovascularization Treated With Verteporfin Photodynamic Therapy

Colin S. Tan, MD*

Rare Case of Retinitis Pigmentosa With Central Areolar Choroidal Dystrophy

Raghuram Venkatesan, MBBS

*Denotes financial interest; see Financial Interest Index for full listing
Phototoxic Blue-Violet Wavelengths Determined by Tissue Culture Model of Aging RPE Cells Exposed to Sunlight-Normalized Irradiance Levels
George A. Violin, MD, FACS*

Supplementary

Faculty Perceptions of Biostatistics Knowledge Among Ophthalmology Residents
Puneet S. Braich, MD, MPH
Coauthors: Vikram S. Brar, MD, Christopher T. Leffler, MD, MPH, Donna M. Windish, MD, MPH

New Device to Test Potential Visual Acuity Compared With Gold Standard Potential Acuity Meter in Cataractous and Normal Eyes
Sara W. Faulks
Coauthors: Elizabeth R. Richter, MD, PhD, Jan A. Kylstra, MD

Diagnosis and Management of Silent Sinus Syndrome
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Coauthor: Altug Cetinkaya, MD

Use of Abbreviations in Ophthalmic Medical Record
Clay Holley, MD, MPH

Evaluation of Ocular Itch Relief With Alcaftadine 0.25% Versus Olopatadine 0.2% in Allergic Conjunctivitis
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Microsurgical Training: Achieving Surgical Competencies at Each Stage of Residency
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Amyloidosis of Upper Eyelids
Cem Simsek, MD
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Radiofrequency Blade For Removal and 5-FU Drops Postoperatively Used for Extended Conjunctival Malpighian Papilloma Management
Chryssa Terzidou, MD*
Coauthors: George Dalianis, MD, Paraskevi Drakou, MD

Two-Year Results of Scleral Implants for Presbyopia Treatment
Ming X. Wang, MD, PhD*
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Videos from 32 countries are available on demand at computer kiosks in the BCEC.

Cast your vote for the People’s Choice Award by going to our website or during the meeting at one of the film kiosks in the BCEC.

Plan to attend the Film Festival Awards Ceremony on Monday, April 28, in the Grand Ballroom of the BCEC. The festivities begin with a reception at 4:30 PM followed by the awards ceremony at 5:00 PM. One winner and runner-up will be chosen for each category. Three Best of the Best winners will be chosen from the category winners, and one of these will be awarded the overall Grand Prize. The People’s Choice Award will also be announced.

View the winning films all day on Tuesday, April 29, in the Film Theater, Room 150.

**F3** Tackling Challenges During Femtosecond Laser-Assisted Cataract Surgery
*Surendra Basti, MD*
**Coproducer:** Dilraj S. Grewal, MD

Video presents challenging femtosecond laser–assisted cataract surgery cases with premature gas breakthrough during corneal wound construction, problems in accessing corneal incisions, limbal relaxing incision placement, and difficulties with incomplete capsulorhexis and lens fragmentation. It also illustrates approaches to handling challenges such as post-radial-keratectomy eyes, brunescent cataracts, and white cataracts.

**F4** Optic Capture: Rescuer of Capsule Catastrophe in Phacoemulsification
*Arup Bhaumik, MS*

Optic capture in the posterior capsulorhexis was a popular technique to prevent PCO and decentration of IOL. In a large PC tear, the optic of a multipiece IOL could be captured within the anterior capsulorhexis after implantation in the sulcus. Video will show an innovative and useful technique in which optic capture was used as a shield in a case of PCR with retained nuclear fragment. Fragments were emulsified over the optic, which separated the anterior chamber from the posterior chamber.

**F5** Now You See It, Now You Don’t: A Unique Complication of Phacoemulsification
*Tuhin Chowdhury, MD, DO*

After proper phacoemulsification, the capsular bag was inflated with HPMC and a single-piece hydrophobic acrylic PCIOL was loaded in a B cartridge to be inserted into the capsular bag through the main incision. The plunger was pushed to deliver the IOL in a normal way, which had been done in more than 10,000 cases without complications, but in this case the IOL was dropped in the vitreous cavity by making a small inferior zonular dialysis and the posterior capsule was perfectly intact, which was unique.
F6  The Sum of All (Late Postoperative) Fears: In-the-Bag IOL Subluxation/Dislocation
Alan S. Crandall, MD

Based on a case of bilateral, spontaneous, in-the-bag IOL anterior partial dislocation following a routine annual eye examination, video describes the increasing problem of late postoperative in-the-bag IOL subluxation/dislocation in eyes with pseudoexfoliation, including diagnosis and surgical management.

F7  Various Cataract Difficulties From the Past Year
Luther L. Fry, MD*

Video presents several cases I botched during the past year, along with suggestions to avoid these difficulties.

F8  Fukasaku Viewing to Obtain 3D Image of Surgical Treatment
Hideharu Fukasaku, MD

Video will describe Fukasaku (side) viewing to observe the surgical treatment method for the serious complications of cataract surgery, such as dropped nucleus, dropped fragments or dropped IOL.

Fukasaku viewing is useful to understand the surgical treatment method in 3D image.

F9  Surgical Anterior Capsulotomy for Complete Capsule Phimosis
Jason Ho, MBBS
Coproducers: Sally Ameen, MBBS, FRCOphth, Ali Mearza, MB BS FRCOphth

Video demonstrates surgical anterior capsulotomy to treat severe capsule contraction syndrome 1 month after routine phacoemulsification surgery. It shows how the problems of a phimotic lens capsule obscuring the visual axis and a distorted capsular bag causing IOL decentration are fully resolved to yield a satisfactory visual result for the patient.

F10 Dirty Dozen
Bina John, DO, FRCS
Coproducers: Mohan Rajan, MD, Sujatha Mohan, DO, MD

Video highlights a dozen complications of phacoemulsification such as capsulorhexis tear, dropped nucleus, PCR, and iridodialysis. It also highlights the prevention and management of these complications.

F11 An Unsung Hero—Hydrodissection in Cataract Surgery
Sonia R. John, MS
Coproducers: Meena Chakrabarti, MS, Arup Chakrabarti, MS

Hydrodissection plays a crucial role in the overall safety and success of the cataract procedure. Video traces the evolution of hydrodissection and will illustrate instrumentation, correct techniques, and subtle maneuvers to achieve successful hydrodissection in various types of cataract. The difficulties, potential complications, and their solutions will also be demonstrated. After watching the video, a novice surgeon will be able to perform hydrodissection successfully.

F11A Mission Impossible: Multifocal Toric IOL in Case of Cataract With Iridodialysis
Igor Kaplin, MD
Coproducers: Mykhaylo Kovtun, PhD, Andrey Berlovsky

Video presents cataract surgery in a patient with corneal astigmatism and iridodialysis after a nonpenetrating eye injury. The operation was complicated by localized fibrotic changes of the lens capsule affecting the possibility of toric IOL implantation. Surgeon demonstrates his technique that allows placing a toric IOL and results 4 months after implantation.

F12 CSi: Heidelberg—IOL Analysis
Ramin Khoramnia, MD*
Coproducers: Florian T. Kretz, MD,* Mike P. Holzer, MD,* Gerd U. Auffarth, MD*

The calcification of hydrophilic IOLs occurs only rarely. Video demonstrates the effort that is made to analyze these IOLs in the laboratory. Various methods for IOL evaluation (eg, light microscopy of stained samples, scanning electron microscopy and x-ray spectroscopy) are explained.
F13 Opacification of Intraocular Lenses
Hiroyuki Matsushima, MD, PhD
Coproducer: Mayumi Nagata, MD, PhD

There are 2 types of IOL opacification: Calcification, which degrades visual function significantly, and glistening and sub-surface nano glistening, which cause mild reduction of visual function. Thus, calcification requires IOL exchange immediately, but glistening and sub-surface nano glistening do not require immediate surgery. It is important to know the type of IOL opacification to decide whether to perform an IOL exchange.

F14 T-Fixation Technique for Pars Plana Intrascleral Haptic Fixation of Posterior Chamber IOL
Toshihiko Ohta, MD
Coproducers: Yusuke Matsuzaki, MD, Hiroshi Toshida, MD, PhD, Akira Murakami, MD

Intrascleral haptic fixation of posterior chamber intraocular lens (IOL) was recently reported. However, it has the potential to cause complications such as pupillary capture, vitreous hemorrhage, and refractive errors because the IOL haptic is fixated intrasclerally via the ciliary sulcus. Video will present a pars plana intrascleral haptic fixation technique and its advantages.

F15 The Ten Commandments of PCR Recognition and Management
Mohan Rajan, MD
Coproducer: Sujatha Mohan, DO, MD

Video highlights the 10 commandments of posterior capsule rupture step by step in early recognition, prevention, and management of PCR. It is very important for a good posterior visual outcome. Video gives the golden rules for managing PCR.

F17 Managing Intraoperative Nucleus Drop in a Mature Cataract During Phacoemulsification: Anterior Segment Approach
Vipin Sahni, MS*
Coproducers: Kapil Agrawal, MS, Manoj Saxena, MD

After a nucleus drop during hydrodissection of a mature cataract, the nucleus was brought into the anterior chamber using posterior-assisted levitation and chopsticks technique. The corneal tunnel was extended and converted to a corneoscleral tunnel. The nucleus was divided into 2 halves and each half was removed using the chopstick method. After vitrectomy, a single-piece PMMA IOL was inserted into the sulcus.

F18 Edge of Darkness—Endophthalmitis
Ravi Shankar, MBBS, DO
Coproducers: Mohan Rajan, MD, Sujatha Mohan, DO, MD

Video will highlight endophthalmitis, the most dreaded complication in ophthalmology. It will emphasize the importance of recognizing endophthalmitis very early, its prevention, and latest techniques in the management of endophthalmitis and various vitrectomy techniques.

F19 Pearls for Phacoemulsification in Traumatic Cataract
Vidushi Sharma, MD, FRCS
Coproducer: Suresh K. Pandey, MD

Phacoemulsification in traumatic cataracts can be challenging, but advanced phaco machines with fluidic parameters, newer surgical techniques and devices (OVDs, CTRs) and IOLs augment the chances of a good outcome. An understanding of the nature and extent of the damage and careful planning prior to surgery are imperative to the proper management of these challenging cases of traumatic cataract.
Cataract/Implant Surgery

F21 Small Is Not Always Good
Jong Wook Bang, MD
Coproducers: Jin Hyoung Kim, MD, PhD, Doh Lee, MD
Ten porcine eyes were divided into 2 main groups. Phacoemulsification with low-vacuum technique was performed in 1 group and with high-vacuum technique in the other. After phacoemulsification, residual capsular lens epithelial cells were observed. In the low-vacuum technique group, more residual lens epithelial cells were measured than in the high-vacuum technique. Phacoemulsification using low-vacuum technique may increase the incidence of capsule opacification than using high-vacuum technique.

F22 Flight of the Arrow—Toric IOL Power Prediction
Graham D. Barrett, FRANZCO*
There are several methods available to select the required toric IOL power to correct pre-existing astigmatism. Video describes the development of a new calculator that considers the principal plane of the IOL and also contains a sophisticated algorithm to account for the contribution of the posterior cornea.

F24 Advantages of MICS in Pseudoexfoliation
Monica Cid, MD
Video will describe the advantages of the MICS technique in pseudoexfoliation. It will show a stable anterior chamber that facilitates pupil stretching. Cataract removal in light of poor pupil dilation and weak zonular fibers is risky, but MICS offers the advantage of a closed system with stable fluidics that make cataract removal much safer. Finally, with a 2.2 mm incision the sutures are obviated in almost all cases and the induced astigmatism is minimal. Visual recovery is fast.

F25 Femto Laser Cataract Surgery in Marfan Syndrome
Armando Crema, MD*
Coproducer: Aileen Walsh, MD*
Femtosecond laser–assisted cataract surgery in a patient with Marfan syndrome and subluxated lens will be presented. Indication, surgical technique, risks, benefits, and results will be discussed.

F26 First IOL Implanted Through a 1.4 mm Incision Without Enlarging It
Danielle Deidier, MD*
A new IOL has made bimanual technique possible without obstacles as a standard phaco procedure or after femtosecond laser–assisted cataract surgery. The IOL allows bimanual cataract surgery through a small, watertight incision of 1.4 mm that is not enlarged during implantation. Cataract surgery can be optimized at an unprecedented level with small, precise incisions (bimanual or femtocataract), reduction of ultrasound delivery (cavitation or femtocataract) and with a new generation IOL.

F27 Use of Retropupillary-Fixed Iris-Claw IOL in Femtosecond-Assisted DSAEK
Aimee R. Edell, MD
Coproducers: Sophia Bourdou, RN, Ioanna Kontari, MD, A. John Kanellopoulos, MD*
Video presents iris-claw for aphakia IOL in exchanging an anterior chamber IOL or a dislocated IOL in bulbous keratopathy when combined with bladeless (femtosecond laser–assisted) DSAEK to establish higher accuracy, safety, and predictability. The retropupillary fixation of the aphakia IOL offers an excellent alternative in patients with corneal pathology.

F30 Transitioning to Femtosecond Laser–Assisted Cataract Surgery: Strategies for the Novice Surgeon
Dilraj S. Grewal, MD
Coproducer: Surendra Basti, MD*
Video demonstrates difficulties with patient positioning for performing femtosecond laser cataract procedure and cataract removal after laser fragmentation. We describe our modifications in different stages of the surgical procedure along with their rationale. Knowledge about these pearls and pitfalls will help shorten the learning curve and reduce complications for novice surgeons.
**F31 The Use of Retropupillary Fixated Iris-Claw IOL in Dislocated Secondary IOL Exchange**  
*Ilyse D. Haberman, MD*  
*Coproducers: A. John Kanellopoulos, MD,*  
*Gregory J. Pamel, MD*

Video illustrates an iris-claw aphakia IOL in exchanging an anterior chamber and a posterior chamber dislocated IOL to establish higher accuracy, safety, and predictability. The retropupillary fixation of the aphakia iris-claw IOL offers an effective alternative in patients with poor zonule and/or capsule support.

**F32 Shallow Anterior Chamber During Phaco: 3-Step Cutoff**  
*Ismail I. Hamza, MD*

The shallow anterior chamber is a challenge for phaco surgery. A new guideline is suggested after this prospective study. The IOLMaster reading of the anterior chamber was used as the guide. For cases with a depth of 2.6 to 2.5 mm, the proper use of OVD was enough to control the case. For anterior chamber shallower than 2.5 mm to 2.3 mm, intravenous mannitol was given. For anterior chamber shallower than 2.2 mm, the use of anterior vitrectomy seemed mandatory as illustrated in the film.

**F33 Viscoelastic-Free Femtosecond Laser-Assisted Cataract Surgery**  
*Marta Ibarz, MD*  
*Coproducers: Pedro Tana, MD, Jose Luis Rodriguez-Prats, MD, PhD*

Femtosecond laser cataract treatment is followed by a complete viscoelastic-free cataract extraction and lens insertion. Anterior chamber is maintained with the microincisional irrigation handpiece throughout surgery with no complications.

**F35 Phaco Capsulotomy Versus Conventional Capsulorhexis in Intumescent Hypermature Cataract: Handling Positive Intralenticular Pressure**  
*Neeraj Khunger, MD*

Phacocapsulotomy consists of the following steps: a small opening made with Kelmen tip in the center of the anterior capsule; directly go to position 3 with moderate vacuum; punch out a hole in anterior capsule. This allows a safe capsulorhexis. Video compares this technique with conventional capsulorhexis.

**F36 Safe Phaco in Traumatic Subluxated Cataract**  
*Ogirala G. Krishna, MS*

Video shows tips to perform safe phaco in a subluxated cataract. The surgical pearls shown include double capsulorhexis starting away from zonular weakness area, hydrodelineation, phaco steps, insertion of capsular tension ring, avoidance of capsular bag collapse, and tangential aspiration of cortex. Video helps to reinforce the surgeons’ skill in the setting of subluxated cataract.

**F37 Cataract Surgery in Uveitic Eyes**  
*Olivia L. Lee, MD*

Instructional video familiarizes the surgeon with features unique to uveitic cataracts. Principles in the perioperative medical management of uveitis patients undergoing surgery are addressed. Surgical pearls for straightforward and complex cases are included.

**F38 Skewer and Cure: Novel Method of Phacoemulsification**  
*Myron Lewyckyj, MD*

Video shows large asymmetric capsulorhexis performed. Vigorous hydrodissection tilts lens so half rises above iris plane. Handpiece is placed under the tilted nucleus. A second instrument through an opposing paracentesis skewers the nucleus using counter pressure from the handpiece. The nucleus is easily divided into halves and smaller pieces and safely and easily aspirated with low energy away from the capsule. This method is ideal for soft lenses and avoids bowl sculpt.

**F41 Single-Handed Single-Port Phacoemulsification—Our Technique**  
*Gaurav Mishra, MD*  
*Coproducers: Siddharth Sharma, MD, Manoj Saxena, MD*

Innovative technique of phaco by single port and 1-hand surgery involves the flip technique of sculpting the nucleus, creating inferior notch, flipping and aspirating cortical matter, rotational technique of keeping phaco tip horizontal at 9 o’clock, and removing nucleus by rotation. Advantages are shown.

*Denotes financial interest; see Financial Interest Index for full listing*
F42  Glued IOLs: A Quick-Fix Solution
Sujatha Mohan, DO, MD
Coproducer: Mohan Rajan, MD

In the absence of capsule support, IOL implantation is challenging to the surgeon. With the advent of glued IOLs, the surgery has become relatively simple for anterior segment surgeons. Attention to detail such as the creation of the scleral pocket, insertion of foldable multipiece IOL, and externalization of the haptic give excellent results.

F43  Anterior Segment Reconstruction for Extensive Fibrous Ingrowth Following Angle-Closure Glaucoma
Jia Y. Ng, MBChB, MAcadMed
Coproducer: Sathish Srinivasan, FRCSEd, FRCOphth*

A 50-year-old white woman developed extensive fibrous ingrowth into the anterior segment involving posterior cornea, iris, and anterior lens capsule following acute angle-closure glaucoma. Video highlights steps of extensive anterior segment reconstruction with penetrating keratoplasty, fibrous ingrowth excision, subtotal iridectomy and cataract surgery combined with custom-made artificial iris implantation.

F45  Femtosecond Laser–Assisted Cataract Surgery in the Presence of a Hydrogel Intracorneal Inlay
Gregory D. Parkhurst, MD*

Video demonstrates the first femtosecond laser–assisted phaco cataract procedure performed in the presence of a Raindrop near vision inlay (FDA investigational device). The patient developed cataract 3 years after inlay implantation. Cataract removal was achieved using a femtosecond laser (LenSx). The transparency and mechanism of action of the inlay allows this novel procedure to be performed without modifications.

F46  Why I Never Returned to Coaxial Cataract Surgery: Confessions of a Biaxial Surgeon
Arturo Pérez-Arteaga, MD

Video shows the surgical features that changed my personal surgical practice, 10 years ago, when I started to perform biaxial techniques. Advantages of biaxial over coaxial in each and every step are presented, including incisions, capsulorhexis, hydrosurgery, prechop, chamber stability, followability, positive intraocular pressure, instrumentation, phaco settings, epinuclear removal, IOL management, posterior capsule rupture, vitreous prolapse, and OVD extraction.

F47  Low IOP Phaco—Changing Paradigm
Gabor B. Scharioth, MD, PhD+

New technology for improved fluidics during phacoemulsification is presented. This will allow reduced intraocular pressure during phacoemulsification while anterior chamber stability is increased.

F48  Microinvasive Surgery in Treatment of Patients With Congenital Iris Coloboma and Cataract
Marina A. Shanturova, MD

We present the original technology of surgical treatment of patients with cataract, congenital coloboma of the iris and pupil ectopia, which consists of phacoemulsification with IOL implantation, closed irido- and pupilloplasty. Depending on the degree of ectopic pupil, a differentiated approach using a variety of techniques to achieve optimal intraoperative conditions and use of various techniques of irido- and pupilloplasty for centration of pupil is presented.

F49  Nuclear Fragmentation Techniques for ORBIS: Hard Cataracts As Seen on the Flying Eye Hospital
Emile Sharifi, MD
Coproducers: Gangadhar Jalli, Ernesto J. Otero, MD, Ahmed Gomaa, MD, PhD

On the ORBIS Flying Eye Hospital, we face some of the hardest cataracts seen in the world and certainly the hardest cataracts in airplane-based ophthalmology. Video displays different techniques, both conventional and lesser known, to fragment dense nuclei.
F50  Novel Small-Aperture Intraocular Implant
Claudio C. Trindade, MD*

Video presents a novel device capable of improving vision in patients with irregular astigmatism. The small-aperture intraocular diaphragm is designed to be implanted in the ciliary sulcus of a pseudophakic eye, acting as an intraocular pinhole. We present the first 4 cases using this technology.

F51  Femto-Delineation: Posterior Polar Simplified
Vaishali Vasavada, MS*
Coproducers: Abhay R. Vasavada, MS, FRCS,* Shetal M. Raj, MS,* Viraj Vasavada, MS,* Mamidipudi R. Praveen, MS,* Lajja R. Shastri, MS*

Video describes a novel technique for posterior polar cataract emulsification. It highlights the use of femtosecond laser-assisted nuclear delineation, which eliminates the need to perform hydro procedures. This allows creation of multiple, customized, concentric layers of nuclear cushioning that protect the posterior capsule until the final stages of surgery, thus enhancing safety.

F52  Cataract Surgery With Consecutive IOL Exchange Under a Corneal Inlay
Kevin L. Waltz, OD, MD*
Coproducer: Brenda Wahl, OD*

Over 20,000 corneal inlays for presbyopia have been implanted worldwide. Patients with presbyopia are at risk for developing cataracts due to their age. Some patients who have been successfully implanted with corneal inlays for presbyopia will require cataract surgery. On occasion, an IOL exchange for power will be an appropriate intervention after cataract surgery. Video demonstrates an uneventful cataract surgery followed by a successful IOL exchange for power adjustment in the same eye.

F53  Novel Combination of Femtosecond Laser and Nanosecond Laser Completion for Bladeless Clear Cornea Cataract Extraction
Feilin Zhu, MD
Coproducers: Ioanna Kontari, MD, Gregory J. Pamel, MD, A. John Kanellopoulos, MD*

Video presents a novel combination of femtosecond laser for capsulorhexis, lens fragmentation, and cornea incisions followed by nanolaser lens quadrant OVD hydrodissection in the anterior chamber, with fragmentation and quadrant removal within the anterior chamber. This all-laser surgery appears safe and effective, with significantly less energy and thermal exposure.

F55  Deep Sclerectomy Assisted by Trypan Blue in Combined Surgery for Open-Angle Glaucoma
Thierry Delayre, MD

Video describes the steps to stain the loose collagen of the juxtacanalicular trabecular meshwork with trypan blue during combined cataract and filtration procedure. Once it is stained the surgeon is able to remove this barrier to aqueous humor egress and will have more confidence on the quality of the filtration pathway.

F56  Ab-Interno Approach to the Subconjunctival Space: Gel Stent in Combination With Glaucoma-Approved Laser-Assisted Cataract Surgery
H. Burkhard Dick, MD
Coproducer: Tim Schultz, MD

Video will present each step in the process of the XEN procedure in combination with laser-assisted cataract surgery. The steps are femtosecond laser procedure, removal of crystalline lens and cortex, IOL insertion and placement, placement of the XEN gel stent by means of an ab interno approach, removal of ophthalmic viscosurgical device, priming the bleb, and sealing the wounds.

*Denotes financial interest; see Financial Interest Index for full listing
ASCRS Program—Films

F57  Stab Incision Glaucoma Surgery  
Soosan Jacob, FRCS, MS  
Coproducer: Athiya Agarwal, MD

Glaucoma filtering surgery can be made a simpler, more effective, less fibrogenic technique by a simple variation in the established technique of trabeculectomy. A single stab entry working on a compromised tunnel principle can give effective filtration and good lowering of IOP. Absence of conjunctival dissection induces less scarring and fewer chances of failure while at the same time leaving more virgin conjunctiva intact. We have had excellent results with this technique.

F58  Phacocanaloplasty: Step by Step  
Cyres K. Mehta, MD, MCH  
Coproducer: Keiki R. Mehta, MS, DO, FIOS

Phacocanaloplasty is safe and efficacious in reducing IOP and improving vision. The surgery is still deemed to be difficult or time consuming. Video shows, step by step, how simple the surgery is to learn if you recognize anatomical landmarks and follow basic guidelines. Watching this video will greatly shorten the learning curve.

F59  Effect of Cleaning Schlemm Canal and Total Lens Capsulectomy on IOP Reduction in Patient With Complicated Pseudoexfoliation Glaucoma  
Miyuki Nagahara, MD, PhD

Chronic glaucoma with PEX leads to the development of elevated IOP by increasing conventional outflow resistance and the IOL is dislocated with zonular weakness after cataract surgery. In such a case, scleral suture fixation of the IOL and glaucoma surgery to reduce outflow resistance are suitable procedures. Video will show efficacy of IOP reduction with combined cleaning of Schlemm canal and total lens capsulectomy.

F60  Transpupillary Argon Ciliary Ablation for Treatment of Refractory Glaucoma  
Osamah J. Saeedi, MD*  
Coproducers: Anuj Chawla, MS, MD,*  
Nishant G. Soni, MD

Video presents a patient with refractory glaucoma, status post multiple ocular surgeries with visible ciliary processes. Due to conjunctival scarring and the patient’s desire to avoid further surgery, we proceeded with transpupillary argon ciliary ablation. Given the popularity of endocyclophotocoagulation, we present this procedure as a noninvasive alternative in select patients.

F61  Surgical Intervention in Late Endophthalmitis After Trabeculectomy With MMC  
Yuri Takhtaev, MD  
Coproducer: Gabor B. Scharioth, MD, PhD*

Persistent hypotony with thin cystic bleb and/or late endophthalmitis after trabeculectomy with mitomycin-C is a rare but very serious complication. Video demonstrates surgical technique and result of intervention in such cases.

In-House Productions

F65  Nucleus Division Without Rotation Technique: Umbrella Technique  
Tsukasa Hanemoto, MD  
Coproducer: Tadahiko Kozawa, MD

Video demonstrates a technique for nucleus division without rotating the crystalline lens. After CCC, the upper portion of the nucleus is removed semicircularly, and longitudinal trench is made in the lower portion of the nucleus similar to the shape of an umbrella. The lower nucleus is divided longitudinally using the tip of the phaco handpiece and chopper. Vertical divide is made on both sides of the remaining lens. The lens is divided into 4 quadrants without rotating the crystalline lens.

*Denotes financial interest; see Financial Interest Index for full listing
F66 Femtosecond Laser–Assisted DSAEK: Easier and Safer Technique
Mohamed H. Hosny, MD, FRCS
Descemet-stripping automated endothelial keratoplasty requires use of expensive precut tissue or assembly of the graft by a mechanical microkeratome. Both techniques may result in donor tissue damage. The Descemet-stripping step of the recipient may be traumatic and lead to upregulation of stromal keratocytes, facilitating later rejection. The added thickness of the implanted tissue may also lead to difficulty in clearing the corneal edema. The femtosecond laser eliminates these challenges.

F67 A Tough Explication
Ahmad K. Khalil, MD, PhD
A case report of a densely opacified IOL associated with dense after-cataract. The explantation technique involved several maneuvers of dissection of synechiae, tackling parts of the tough after-cataract obstructing the visual axis, demonstrating visco-, sharp-, and blunt dissection, followed by careful explantation of the lens and secondary IOL implantation.

F68 A New Way of Controlling Venturi Pump Flow Volume in Cataract Surgery
Makoto Kishimoto, MD
In cataract surgery with venturi pumps, pressure and flow volume cannot be set separately. If pressure is high enough to capture nuclei, flow volume may be excessive. Still, venturi pumps offer stable aspiration and are simple and more affordable than peristaltic pumps. Video shows a way to control flow volume more effectively, allowing venturi pumps to be used more widely worldwide.

F69 Lens Fiber Orientation During Phacoemulsification: Intraoperative Global Positioning System for the Surgeon
Mathew K. Kummelil, MD
Coproducers: Sudeep Das, MD, DNB, Somshekar Nagappa, MD, Rohit Shetty, DNB, FRCS
Trenching to the posterior plate during divide and conquer and impaling in the core endonucleus during chopping is critical. Video exploits the lens morphology and the lens fiber orientation to customize the nucleus disassembly technique to the depth of instrumentation in the nucleus.

F70 Nucleus Management Made Easy in Manual Small-Incision Sutureless Cataract Surgery
Minu M. Mathen, MD
Manual small-incision sutureless cataract surgery is a proven high-quality, low cost alternative to phacoemulsification. Different types of cataracts must be tackled differently, especially in the nucleus management stage. Video will demonstrate the different techniques for safe nucleus management and how to manage complications during this step.

F71 Intraocular Lens Grappling Hook
John J. McK Smiles, FRANZCO
The diving IOL during cataract surgery is a most undesirable and challenging event. The author demonstrates a new instrument to assist in restoring the IOL to the anterior segment and illustrates the circumstances from which this new device was inspired.

F72 The Invaders—of the Eye
Lakshmipathy R. Srinivasan, MBBS, DO
Video shows the various types of living and nonliving foreign bodies of the eye. The foreign bodies are from a tiny insect to the longest worm ever removed. Video also includes removal of a tiny metal piece to a large metal intraocular foreign body.

F73 Safer Phaco for the Beginner—Capsulorhexis
Ian Yeo, FRCS
Video is part of a series of educational videos focusing on critical steps for performing phacoemulsification. It will present simple steps that a beginning phaco surgeon can use to make surgery safer and more predictable. The focus will be on creation of the continuous curvilinear capsulorhexis.
**ASCRS Program—Films**

**Instruments & Devices/IOLs**

**F74 Clinical Experience With the APX: Novel Device for Pupil Expansion**

*Ehud I. Assia, MD*

*Coproducers: Avner Belkin, MD, Shay Ofir, MD, Tal Koval, MD*

The APX, a device designed to dilate and maintain a wide pupil throughout surgery, was effectively used in 18 eyes with a small pupil or IFIS. Constricted pupil was often associated with other ocular pathologies or following trauma. Surgeries included pars plana vitrectomy and scleral fixation of a PC IOL.

**F75 The Next Gen Pupil-Dilating Ring**

*Suven Bhattacharjee, MS, DO*

Notches and flanges on a single strand of nylon form a thin, single plane device that can be inserted through a 0.9 mm (20G) incision. The hexagonal device requires less room than a square. A round pupil is maintained. Floppiness and billowing of the iris is dampened by the flanges. Removal is smooth and easy with no snagging of the incision.

**F77 New Single-Use Adjustable Vacuum Trephine**

*Rachel Epstein, MD*

*Coproducers: Adam Gess, MD, Majid Moshirfar, MD*

Video demonstrates the Moria single-use adjustable vacuum trephine for deep anterior lamellar or penetrating keratoplasty. This device enables the user to adjust the trephination to a specific depth between 200 and 1200 mm.

**F78 Management of Soft Cataract—Pearls and Pitfalls**

*Manas K. Ghosh, MS*

Soft cataract is characterized by minimally dense endonucleus with soft cortical material. Because of this, it is difficult to crack or chop and may lead to unwanted posterior capsule complications. Different techniques that can be successfully used include simple aspiration, stop and chop, and chip and flip. We have developed a nuclear cracker that can easily crack the soft cataract. This is useful especially for the beginners.

**F79 Use of a Novel Capsular Anchoring Device to Treat Zonulysis in a Case of Decentered Trifocal Multifocal IOL**

*Ruth Lapid-Gortzak, MD, PhD*

*Coproducers: Carla P. Nieuwendaal, MD, Ivanka J. van der Meulen, MD*

Video will show the use of a capsular anchoring device in a case of a decentered trifocal multifocal IOL secondary to zonulysis. The AssiAnchor device is a paperclip-like PMMA device that is clipped onto the capsulorhexis and then transsclerally sutured after tension and centration of the IOL have been adjusted. Video demonstrates clinical use of the device.

**F80 Taming the Untamed: Micro Instrumentation in the Anterior Chamber**

*Swapna Nair, FRCS*

Video demonstrates the use of microinstruments in the anterior chamber that decrease the need to externalize procedures involving the anterior and posterior capsules, iris, and sutures that can be maneuvered in the anterior chamber itself with extreme precision and dexterity.

**F83 New Intraocular Lens Fixated in Ciliary Sulcus Without Scleral Suture in the Absence of Capsule Support**

*Takeshi Sugiura, MD*

Video shows a new IOL that can be fixated in the eye without scleral suture by setting the haptics in the ciliary sulcus. This new IOL has 3 haptics. The new haptics manipulator leads the haptics to the ciliary sulcus correctly and fixates the IOL stably.

**F84 Intraoperative Toric IOL Rotation to Manage Corneal Astigmatism Using Continuous Real-Time Data-Streaming Intraoperative Aberrometry**

*Dan B. Tran, MD*

Continuous real-time streaming aphakic intraoperative measurements were performed using ORA with VerifEYE. The data were captured after refractive stability measurement was achieved. The toric IOLs were chosen and implanted. Intraoperative IOL rotations guided by ORA with VerifEYE were done to minimize residual cylinder results. Surgical variables were identified with appropriate surgical techniques to minimize these variables presented.

*Denotes financial interest; see Financial Interest Index for full listing*
F85  Complete Separation of Femto-Fragmented Nucleus Quadrants With New Prechopper
Ronald Yeh, MD*

Femtosecond laser fragmentation of a nucleus is usually incomplete because of a variable safety margin from the posterior capsule that the surgeon chooses. This leads to inconsistent and incomplete separation of nuclear segments. The use of this new prechopper to complete the segment separation is logical and safer.

F86  New IOL Design for Scleral Fixation
Norihiko Yoshida, MD*

Coproducers: Kazuo Ichikawa, MD, PhD,* Tatsushi Kaga, PhD, MD,* Hideki Nakamura, MD,* Sho Yokoyama, MD,* Tadashiro Saeki, PhD, MD,* Kei Ichikawa, MD,* Takashi Kojima, MD, PhD

For scleral fixation, some techniques are required to take out haptics of conventional IOL from sclera and implant them in the scleral pockets. Conventional IOLs have some problems as the IOL falls down from its normal position after surgery. We designed a new IOL to overcome these problems.

F87  Surgical Techniques to Conquer Intumescent Cataract
Jun Hun Lee, MD

The word intumescent means swelling. There are many difficulties when performing intumescent cataract surgery. Surgical techniques for the successful surgery such as capsular staining, using viscoadaptive OVD, phacocapsulotomy, and horizontal chopping techniques will be discussed in the video.

F90  Innovative 2-Point Fixation Complete Phaco Chopper for Effective, Efficient, and Controlled Phaco Chopping
Jagdish R. Rana, MD

A new 2-point fixation phaco chopper with 2 blunt teeth helps in effective and controlled chopping of all types of cataracts, easy rotation of nucleus and epinucleus, faster and safer surgery, less tissue inflammation, and a better postoperative visual outcome.

F91  In Vivo 3-Dimensional Epithelial Imaging by OCT Used as Relevant Clinical Tool
George Asimellis, PhD*

Coproducer: A. John Kanellopoulos, MD*

Video will present clinical methodology and findings from in vivo, clinical, 3-dimensional epithelial imaging using spectral-domain anterior segment optical coherence tomography. Clinical study of large cohort of healthy patients investigated ectatic and keratoconic corneas, dry eyes, post refractive, post lamellar keratoplasty, and post cataract surgery patients.

*Denotes financial interest; see Financial Interest Index for full listing
F92 Pure Phaco—Pure Delight
Narayan Bardoloi, MBBS, DO

Postop rise of IOP and TASS are complications of OVDs. Video shows a technique of phaco without OVDs. Incision, capsulorhexis, and IOL implantations are done under balanced salt solution provided constantly by the irrigating cannula. A prospective randomized study compared effect of presence or absence of OVD on postop IOP, inflammation, and endothelial cell loss and showed increased inflammation on first postop day in OVD group. Intraocular pressure and endothelial cell loss were similar in both.

F94 Endoscopy for IOL Challenging Cases
Durval M. Carvalho, MD

The Uram E2 endoscope was used in the following cases of IOL complications: IOL overall diameter not dimensioned for the sulcus; capsule contraction; single-piece haptic in sulcus; 1 haptic in the bag, and another out. All eyes had an improvement with the correction of the IOL positioning due to the assistance of the endoscope that proved to be useful in these challenging cases.

F96 Pupilloplasty and Retropupilar Fixation of Iris-Claw IOL
Victoria de Rojas, MD, PhD
Coproducers: Margarita de la Fuente, MD, Maria Lopez, MD, Maria Josefa Pombo Garcia, MD, Isabel Lopez, MD

Video will present cases of aphakia correction in which retropupilar fixation of an iris-claw IOL was carried out after pupilloplasty using a Siepser knot in 2 cases and an iris cerclage in 1 case. No complications occurred. The IOL was stable, maintaining a safe distance from the endothelium and a good cosmetic result. Pearls for implantation and proper centration will be provided.

F97 Totally Flutter-Free Phacoemulsification Surgery by Double Irrigation–Tube Technique
Mukesh H. Dholakia, MS

The double irrigation–tube technique enables anterior chamber flutter-free phacoemulsification surgery. Video demonstrates smart use of each tube at different steps of phacoemulsification to maintain fully formed deep AC and to prevent complications related to AC flutter.

F98 Tenon Reinforcement for Conjunctivochalasis
Hosam El Sheha, MD, PhD*

Conjunctivochalasis interferes with the tear meniscus and may mimic or aggravate dry eye. Degradation of the Tenon capsule is considered an underlying cause. Simple excision may temporarily relieve symptoms; however, it may induce scarring and shortening of the fornix. Tenon reinforcement with amniotic membrane is a more effective alternative procedure.

F99 Lens Holding the Bag: Technique to Prevent Late Spontaneous in-the-Bag IOL Dislocation in Eyes With Extreme Zonular Weakness
Carlos Figueiredo, MD

Video demonstrates a technique for managing cataracts in eyes with extreme zonular weakness. The technique comprises implantation of a capsular tension ring, intraocular lens optic capture, and fixation of a 3 piece IOL in the ciliary sulcus.

F100 FABITOME Phaco in a Few Minutes
Arun Kumar Galli Lakshmi Narayanan, FRCS*
Coproducer: Sivagnanam Subbiah, BE*

Forceps-assisted blade-incision twin optimized MICS emulsification is a simplified phaco technique to obtain consistent postoperative phaco surgical results with accurate repeatable dimensions while making clear corneal incisions, capsulorhexis with a needle or forceps, and a calibrated depth of penetration into the cataractous substance, providing visual feedback at each step.

F101 Femtosecond Intrastromal Lenticular Implantation: Innovative Technique for Surgical Treatment of Hyperopia
Sri Ganesh, MBBS, MS, DNB*

The femtosecond intrastromal lenticular implantation technique involves insertion of a cryo-preserved stromal lenticule of known power into a pocket created in a patient’s cornea using the femtosecond laser to correct hyperopia. It appears to offer significant potential advantages such as no haze, no flap complications, no minimum regression, minimal induction of aberrations, better predictability, and reversibility of the procedure.

*Denotes financial interest; see Financial Interest Index for full listing
F102 Did Sushruta Practice Couching or Extracapsular Cataract Extraction?  
Andrzej E. Grzybowski, MD, PhD*  
Coproducer: Francisco J. Ascaso, MD, PhD

It is generally accepted that Jacques Daviel introduced (18th century) extracapsular cataract extraction. However, it was recently suggested that Sushruta proposed it in the 6th century BC. Present study verifies this controversy. Video discusses evidence that some sort of extraocular expulsion of lens material through a limbal puncture (paracentesis) was described by the Indian surgeon.

F103 Topography-Customized CXL Applications for Refractive Corneal Changes: Initial Clinical Experience  
A. John Kanellopoulos, MD*  
Coproducer: Sophia Bourdou, RN

Video will present the concept of very high fluence, topography customized CXL treatments in myopic, hyperopic, astigmatic, as well as presbyopic treatments as a new tool for refractive implementation of crosslinking, without the need for stromal tissue removal. Clinical experience and follow-up results will be presented.

F104 Approach to Scleral Sutured Plate Haptic Intraocular Lenses  
Daniel Kasuga, MD  
Coproducer: Jonathan Feistmann, MD

We present a case in which a single-piece plate haptic PMMA IOL in the capsular bag was dislocated and was sutured to the sclera using the islets, obviating the need to remove the lens en bloc.

F105 Posterior Continuous Curvilinear Capsulorhexis With Intracameral Endoilluminator  
Dae Yune Kim, MD, PhD  
Coproducer: Bong Joon Choi

Endoilluminator was used to visualize the posterior capsule during PCCC, and will be shown this technique in the video. The 23-gauge endoilluminator is inserted into the anterior chamber through the side-port incision. Illumination of the posterior capsule with the endoilluminator improves visibility of posterior capsule during posterior capsulorhexis. With this technique, posterior capsulorhexis can be performed more safely and effectively.

F106 Three-Point Scleral Fixation of Single-Piece Acrylic IOL to Prevent Tilting  
Sang Woo Kim, MD

Video will present a new surgical technique of scleral fixation capable of small incision using foldable single-piece acrylic IOL that minimizes corneal astigmatism. In our experience, the 3-point scleral fixation technique minimized IOL tilting and improved visual quality because of precise IOL centering, as well as the use of a foldable single-piece acrylic IOL.

F108 Phacoemulsification Using a Chisel-Shaped Illuminator: Enhanced Depth Trench, One-Shot Crack, and Phaco Cut  
Jong Hwan Lee, MD  
Coproducers: Jae Min Wi, MD, Jong Yeon Lee, MD, PhD, Gyun Hyeong Kim, MD, Dae Young Lee, MD, Dong Heun Nam, MD, PhD

This nucleofractis technique uses high-resolution lens images improved by intracameral illumination. Trenching continues until the posterior plate "white reflex" between endonucleus and epinucleus is identified. After trenching, cracking is initiated with minimal separation force, and completion of cracking is confirmed by posterior capsule reflex. The divided nucleus is efficiently cut into small fragments by a chisel-shaped illuminator.

F109 Repositioning Surgery Using a Ciliary Sulcus Injector for Severe Cyclodialysis and Iridodialysis  
Yusuke Matsuzaki, MD  
Coproducers: Toshihiko Ohta, MD, Hiroshi Toshida, MD, PhD, Akira Murakami, MD

Video will present a repositioning surgery using a ciliary sulcus injector for severe cyclodialysis and iridodialysis. A ciliary sulcus injector is a device that assists passage of the suture thread into the ciliary sulcus during IOL fixation. Using a ciliary sulcus injector, suturing the ruptured region of the ciliary body (ciliary sulcus) to the sclera was performed.
F110 Fluidic Supporting System for Posterior Polar Cataracts: New Technique
Keiki R. Mehta, MS, DO, FIOS
Coproducer: Cyres K. Mehta, MD, MCH
The risks of posterior polar cataract can be eliminated by use of a balanced anterior/posterior segment fluid flow, posterior by a 23-gauge pars plana infusion inserted prior to surgery with a fluid restrictor and connected to a Y tube leading in the hand piece. Fluid simultaneously flows to both the posterior and the anterior segments; thus, there is no risk for a posterior blow-out.

F111 Epicapsular IOL Fixation: Novel Use of Pupillary Expansion Ring in Capsulotomy to Support a 3-Piece IOL
Paul G. Mitchell, MD
Epicapsular fixation of a 3-piece IOL using a pupillary expansion ring in the capsulotomy is demonstrated. This is an alternative to transscleral or iris IOL fixation when the anterior capsule is intact but the capsulotomy is too large to allow optic capture and zonular defects that rule out sulcus fixation.

F112 Glued IOL Scleral Fixation Through Extremely Opaque Cornea Combined With DSEK
Ayan Mohanta, MS
In India, we often see aphakic corneal decompensations and failed optical PKP with aphakia. These cases must undergo endothelial keratoplasty, along with an IOL implantation as a support for air tamponade in the anterior chamber. This new technique is aimed at performing glued IOL through extremely hazy corneas, providing support for the donor disc and complete the EK procedure.

F113 Artificial-Iris Suturing Technique
Vladimir Pfeifer, MD*
Video shows new technique for artificial iris suturing. The IOL and artificial iris are sutured into the sulcus with an open-sky technique. Corneal transplant is performed. Audience will learn about a new single suture in the sulcus suturing technique of IOL and artificial iris complex sutured to each other and into the sulcus with the same special suture.

F114 Novel Point-Source Topographer: Clinical Application and Clinical Findings
Anam Qureshi, MD
Coproducers: George Asimellis, PhD,* A. John Kanellopoulos, MD*
Attendees will share our experience with color LED-based corneal topography system providing repeatable measurements of keratometry with high specificity and sensitivity in normal and astigmatic corneas. The topographer may provide superior curvature measurements in the center of the cornea for challenging irregular cases. This is an innovation in refractive surgery planning and evaluation.

F116 Methodology and Pearls Implementing Ocular Scatter Quantification in Evaluation of Refractive Surgery
David J. Sackel, MD, MBA
Coproducers: Gregory J. Pamel, MD, George Asimellis, PhD,* A. John Kanellopoulos, MD,* Anna Marmalidou, MD
Video will present clinical methodology and findings resulting from ocular scatter quantification by measurement of stray light (quantification of stray-light levels) using the compensation method. Applications in pre-and post-cataract, LASIK, crosslinking will be included, along with their applicability to post-surgery follow-up and assessment.

F117 Contact Lens–Assisted Collagen Crosslinking: New Technique for CXL in Thin Corneas
Kala Satish, MD
Coproducers: Soosan Jacob, FRCS, MS, Amar Agarwal, FRCS*
Contact lens–assisted crosslinking can be done for thin corneas below 400 µm.

*Denotes financial interest; see Financial Interest Index for full listing
F119  Combined Laser–Assisted Cataract Surgery With Laser Posterior Capsulotomy and Silicone Oil Removal
Pavel Stodulka, MD, PhD*

Laser posterior capsulotomy was performed using the Victus femtosecond laser (Technolas Bausch + Lomb) after laser-assisted cataract surgery and removal of silicone oil. A trifocal IOL FineVision (Physiol) was implanted in the capsular bag. It was possible to perform laser posterior capsulotomy and evacuate silicone oil through both anterior and posterior capsulotomies and corneal incision with no need for pars plana incision. The IOL was well centered in the capsular bag.

F120  Pushing the Boundaries With the Bag-in-the-Lens IOL
Marie José B. Tassignon, MD, PhD*

The bag-in-the-lens IOL is a unique approach to lens placement in cataract surgery. Video illustrates complex cases including pediatric cataract with problematic vitreolenticular interface, primary posterior capsule rupture, and traumatic cataract with zonular loss and use of bean-shaped elements that allow successful BIL insertion.

F121  FACT: Femto-Assisted Corneal Tattoo
Keith Walter, MD*

Video will show a series of cases in which the Intacs channel software on the femtosecond laser was used to create peripheral corneal channels and then place the appropriately colored pigment over the corresponding iris defect.

F122  Posterior Chamber Phakic IOL: The Right Way Up
Athiya Agarwal, MD

Posterior chamber phakic IOLs have to be placed correctly or there can be complications.

F124  Pterygium Surgery—Pride and Humility
Javier Celis Sánchez, MD
Coproducers: Agustín Núñez Sánchez, MD, Esperanza López Mondéjar, MD, Edgar J. Infantes, Carmen Ispa Callén, MD, Fernando González del Valle, MD

Even the most simple pterygium surgery, as well as a second rescue surgery, can become complicated. Humbly, it is important to know all surgical alternatives in these cases to cure the corneal disease and our pride too.

F125  Chopping and Phacoemulsification: Easier, Safer, and Less Tiresome
Debashis Dutta, MS

Video highlights 3 aspects of cataract surgery. First, it depicts a new technique of chopping safely in tricky situations such as subluxation and PPC. Second, it shows how to decrease use of phaco power by multiple chops. Third, it demonstrates slow-motion controlled phacoemulsification in case of open PC and elsewhere.

F126  Ocular Allergy: A New Sign to Find Hidden Forme Fruste Keratoconus
Leonardo C. Gontijo, MD
Coproducers: Leonardo Coelho Gontijo, Aquiles D. Gontijo

Many ocular allergy signs are described in the literature. However, we have seen a common sign not mentioned that we call allergic pigmentation. This can be strong in the early phases but slowly disappears, leaving a discrete remaining form allowing suspicion of a past or still present ocular allergy and even nasal allergies. It can help us diagnose easier, surprising some nonsymptomatic patients, and find cases of KC not detected by normal screening.

*Denotes financial interest; see Financial Interest Index for full listing
F128  Let There Be Wavefront IV: Retinal Image Quality

Miyoung Joon Kim, MD*
Coproducers: Len Zheleznyak, MS, Aixa Alarcon, PhD, Hungwon Tchah, MD, *Scott M. MacRae, MD,* Geunyoung Yoon, PhD*

Image formation on the retina by the eye’s optics is the first important step in the complex process of vision. As a continuation of our "Let There Be Wavefront" series, the present video reviews different methods to assess relationships between optical quality of the eye and retinal image quality. This will help cataract and refractive surgeons better understand patients’ visual symptoms and complications before and after procedures.

F129  Management of Capsule Rupture During Cataract Surgery

Dieter W. Klaas, MD

Rupture of the lens capsule, posterior dislocation of lens material, and the need for vitrectomy occur even with experienced eye surgeons. Intraoperative management of complications such as anterior and posterior capsule rupture and loss of lens material in the vitreous describes the step-by-step procedure within different complicated situations. Furthermore, the introduction of the SRT formula for success—stop, relax, think—will help to achieve the best visual outcome.

F130  What You See Is What You Get: Understanding Diffraction With IOLs

Jonathan C. Lake, MD
Coproducer: Celso Boianovsky, MD

Video will present classic experiments with diffraction followed by demonstrations using different diffractive IOLs. Actually seeing diffraction as it occurs in the eye should help ophthalmologists-in-training understand the mechanisms of diffractive multifocal IOLs.

F133  Backward Flow of Contaminated OVD Into Cartridge During IOL Insertion Using Injector

Kazuki Matsuura, MD

Ophthalmic viscosurgical devices often flow backward into the cartridge during IOL insertion using injectors. We assessed the risk for intraocular contamination caused by IOL insertion by observing the dynamics of an OVD. Small-diameter cartridges used together with plate-type haptics resulted in an additional risk for intraocular contamination.

F134  Detection of Intraocular Foreign Bodies and Removal Surgery Using a Super-Wide-Angle Fundus Camera

Yoshihide Nakai, MD

A super-wide-angle fundus camera 200Tx allows 200-degree observation of the peripheral fundus. We used this camera for a patient with traumatic scleral rupture and vitreous prolapse, which made adequate funduscopic examination impossible, and found 3 eyelashes. Video shows the eyelash removal with 25-gauge vitrectomy, which could not be detected with CT or standard funduscopy.

F136  Anterior Capsule Contraction Syndrome After Cataract Phacoemulsification Surgery

Marco Rios, MD
Coproducers: Nathali Alvarez, MD, Mary C. Oliveros, MD, Aletzaida M. Chirguita, MD

Anterior capsule contraction syndrome is a complication of the capsulorhexis after cataract surgery. Extreme phimosis can affect the IOL’s position and function, result in zonular dehiscence, and lead to capsule–IOL complex dislocation. Surgical capsulotomy technique will be presented as an option for an extremely thick fibrotic membrane.
**F139 Phaco Fluidics Logics**  
*Sivagnanam Subbiah, BE*

*Coproducer: Arun Kumar Galli Lakshmi Narayanan, FRCS*

Computational fluid dynamics during phacoemulsification with a flow streamline is simulated and analyzed using the Fluent software. Different incision sizes were considered for comparing pressure, fluid turbulence, velocity and temperature interference of the tip, with the fluidics in a 3D model of the anterior chamber as an enclosed fluid domain by applying K-epsilon turbulent model.

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**F140 Temperature in Corneal Endothelium During Phacoemulsification**  
*Hisaharu Suzuki, MD*

*Coproducers: Toshihiko Shiwa, MD, Tutomu Igarashi, MD, Hiroshi Takahashi, MD*

One of the direct effects of ultrasonic power is heat production. Thus, the corneal endothelium can be damaged by increased temperature of aqueous humor during phacoemulsification. We will present the changes of temperature of corneal endothelium during phacoemulsification.

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**F141 BC Flushing**  
*Hironori Yoshida, MD, PhD*

*Coproducers: Kazuki Matsuura, MD, PhD, Takahiro Shimowake, MD, PhD, Teruyuki Miyoshi, MD, PhD*

Endophthalmitis, a potentially severe complication, must be avoided. We perform an innovative method, BC flushing, that is based on medical evidence and physiological theories. We believe it is one of the best means of preventing endophthalmitis. We wish to propose BC Flushing as a strategy for achieving a zero endophthalmitis rate.

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**Refractive/Cornea Surgery**

**F142 Pre-Descemet Endothelial Keratoplasty**  
*Amar Agarwal, FRCS*

Pre-Descemet endothelial keratoplasty is a new technique of endothelial keratoplasty.

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**F143 Laser-Assisted Lamellar Anterior Keratoplasty**  
*Shashi M. Alloju, MD*

Video demonstrate a newly developed technique, laser-assisted lamellar anterior keratoplasty. The procedure was designed to test and compare with standard full-thickness corneal transplantation, Intralase enabled keratoplasty. The new technique replaces only the front portion of the cornea and does not have the risks associated with conventional Intralaser enabled keratoplasty. Optical coherence tomography is used to guide the depth of the graft and donor dissections.

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**F144 Repeat Penetrating Keratoplasty in Patients With Herpetic Stromal Keratitis**  
*Osman S. Arslan, MD*

*Coproducers: Ceyhun Arici, MD, Mehmet S. Mangan, MD*

Video presents a standard surgical procedure for penetrating keratoplasty that uses 16 interrupted and 1 running 10-0 nylon suture for transplantation.

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**F145 Surgical Management of Laser Treatment for Myopia Correction Via Small-Incision Lenticule Extraction**  
*Detlev R. H. Breyer, MD*

A standard ReLEx SMILE procedure (VisuMax femtosecond laser by CZM) consists of several steps: docking of patient, preparation of refractive lenticule, extraction of lenticule, and patient’s release. Specified instruments as well as experience in incision and lenticule extraction and complication management are mandatory for optimal results. Video will show our experience of the laser treatment, lenticule extraction with special instruments, lenticule removal, and final release of docking.

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**F146 One-Step Transepithelial Photorefractive Keratectomy**  
*Diego de Ortueta, MD, FEBO*

We present and analyze our results with transepithelial photorefractive keratectomy, a single-step treatment that superimposes an aspheric ablation profile with a defined epithelial thickness profile without interrupting the ablation. The 1-step technique is a standardized surface ablation offering a very short treatment time and avoiding dehydration of the stroma.

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*Denotes financial interest; see Financial Interest Index for full listing*
F148  Refractive Nightmares  
Sonu Goel, DND, MNAMS  
Femtosecond laser flap creation is a popular procedure today owing to the increased accuracy and safety over mechanical microkeratomes. Video demonstrates complications seen in eyes with femtosecond laser (Ziemer LDV Z6) and Moria MK in a series of 300 patients over 6 months. Incomplete flap, incomplete side cut, decentered flap, inferior hinge, flap tear, flap bleed, and vertical gas breakthrough were encountered. Various tactful ways were applied, thereby achieving perfect outcomes.

F149  Pterygium Surgery Pearls  
John A. Hovanesian, MD*  
Video will present pearls for pterygium excision including corneal dissection, harvesting a conjunctival autograft, placement of amniotic membrane, and use of fibrin adhesive in pterygium surgery.

F150  Central Island Presented as Ectasia  
Mahmoud Jabbarvand, MD  
Coproducers: Hesam Hashemian, MD, Mehdi Khodaparast, MD  
A 30-year-old man with a history of myopic PRK was referred with a diagnosis of ectasia. Keratometry revealed inferotemporal steepening. Corneal corneal crosslinking was planned. After epithelial debridement, a 1.5 x 1.5 central island was found. The central island was mechanically removed and photorefractive keratectomy performed. Postoperative keratometry revealed a regular cornea. Corrected distance visual acuity improved from 20/70 to 20/25.

F151  Keratoconus Management: Long-Term Stability of Topography-Guided Normalization Combined With High Fluence CXL (Athens Protocol)  
Ioanna Kontari, MD  
Coproducers: A. John Kanellopoulos, MD,* George Asimellis, PhD*  
Attendees will share our experience with a large number of cases in the Athens Protocol experience procedure. Video will present 3-year long-term refractive, topometric, pachymetric, and visual rehabilitation changes induced by clinical keratoconus management with anterior-surface normalization by partial, topography-guided excimer laser ablation in conjunction with high-fluence crosslinking.

F152  Singular Case of Endothelial Keratoplasty  
Miguel A. Lopez, MD  
Singular case of endothelial keratoplasty. We perform endothelial keratoplasty in a patient with bullous pseudophakic keratopathy who developed TASS 3 years earlier. Pre-cut tissue was obtained from the Eyebank of North Carolina. The DSAEK technique used. Stripping was performed and because of resistance, 10 minutes were needed to complete the extraction of Descemet membrane. In conclusion, a few cases of endothelial keratoplasty require a lot more work before the donor graft can be inserted.

F153  Femtosecond-Assisted High Myopic LASIK: Comparison of Standard and LASIK Xtra  
Gregory J. Pamel, MD  
Coproducer: A. John Kanellopoulos, MD*  
Video presents the concept of a proactive intervention involving in situ CXL application concurrent with the LASIK operation, which was introduced by our team and called LASIK-Xtra. The concept is based on successful treatments and femtosecond laser-created intrastromal pocket CXL implementation in a patient population that appeared to have a high rate of keratoconus.

F154  Descemet Membrane Endothelial Keratoplasty Unveiled—From D to K  
Mauricio A. Perez, MD  
Coproducers: Yakov Goldich, MD, David S. Rootman, MD, FRCSC*  
Video presents our current approach to endothelial transplantation using a cohort of more than 60 patients with endothelial failure to create a step-by-step tutorial on DMEK surgery. Emphasis will be placed on tips and tricks for donor preparation, insertion, unfolding and graft fixation, including what to avoid early on in the learning curve and the management of unexpected scenarios.

*Denotes financial interest; see Financial Interest Index for full listing
F156 Copolymer Phakic IOL Explantation, Cataract Removal, and Foldable Acrylic IOL Implantation

Hisham Saad, MD, FRCS

Video will present the method of copolymer phakic IOL explantation followed by cataract removal. The steps are choosing incision location, wound construction, retrieval of copolymer phakic IOL from behind the iris and explantation out of the eye safely, cataract removal, foldable acrylic IOL in-the-bag implantation, and careful wound sealing.

F157 New 355-Degree Intracorneal Ring to Correct Nipple-Type Keratoconus

Francisco Sánchez León, MD*
Coproducer: Sandra Sanoja Sarabia, MD*

Video will review indications, techniques of implantation, and results of new 355-degree intracorneal ring for the treatment of nipple-type keratoconus.

F158 Autoconjunctival Grafting Using Autogenous Blood in Pterygium Excision

Manoj Saxena, MD
Coproducer: Vipin Sahni, MS*

Video presents a novel and cheap method of using autoconjunctival graft in pterygium surgery. The conjunctiva is taken from the superior temporal area along with the limbal stem cells and placed in the bare area created after the pterygium is removed. The blood oozing from the cut conjunctival ends is used as bioglu. No external materials such as, bioglu, or mitomycin C are used. The healing was uneventful, and the patients remained quite comfortable.

F159 Femtosecond Laser Implantation of a Variable Depth Foldable Artificial Cornea for Customized Treatment of Cornea Blindness

Yichieh Shiuey, MD*

Selective keratoplasty such as ALK, DALK, DSEK, and DMEK are now done routinely. Until recently, artificial corneas were largely one-size fits all. Video presents femtosecond-assisted implantation of a variable-depth foldable artificial cornea (KeraKlear XT). The artificial cornea comes in different thicknesses to allow customized treatment depending on the depth of the corneal pathology and the type of corneal pathology. Surgical technique and results will be presented.

F160 Modification of Miyake-Apple Posterior Viewing Camera to Aid Understanding of Big-Bubble Formation in Deep Anterior Lamellar Keratoplasty

Johnson Tan, MBBS, FRCSEd (Ophth)
Coproducers: Gregory Moloney, MBBS, FRANZCO, Sonia N. Yeung, MD, PHD

An iPhone affixed with an 11 D IOL was used to record the inferior (posterior) corneal changes during wet-lab-based human cornea deep anterior lamellar surgery. Video presents both the superior and inferior views, differentiating penetrating and nonpenetrating air entry into the anterior chamber, and viscodissection to achieve the big bubble. Indirect signs of nonpenetrating air entry guide further attempts at big-bubble formation, thereby decreasing conversion to penetrating keratoplasty.

F161 Case Series of Endophthalmitis After Intravitreal Injection of Counter Fight Bevacizumab

Gerd U. Auffarth, MD*
Coproducers: Florian N. Auerbach, MD,* Florian T. Kretz, MD*

Endophthalmitis is a rare complication in intravitreal treatment with anti-VEGF agents. Video presents a case series of 14 eyes (12 patients from northern Iraq) that developed severe endophthalmitis after intravitreal counterfeit bevacizumab injection in Turkey. Eleven eyes had to be enucleated and 3 eyes underwent pars plana vitrectomy in our institution.

F163 Sleep Tight, Don’t Warp Your Eyes

Ronaldo M. Badaro, MD

Video will highlight the potential effects of sleep habits on corneal topography and the clinical implications as well as prevention strategies.

*Denotes financial interest; see Financial Interest Index for full listing
F164 Video Review of Microbial Patient and Operating Room Personnel Sampling and Culture of an Ambulatory Ophthalmological Unit
Sophia Bourdou, RN
Coproducer: A. John Kanellopoulos, MD*
Presentation of elaborative, novel protocol of personnel and patient nasal and conjunctival mucosa sampling, as well as operating room theater (including intraocular and laser refractive operating rooms) and evaluation of several levels of sterility. Design, procedures, and outcome results will be discussed in view of improving surgical and postoperative outcomes.

F165 Haptic Transplantation: Orthopedic Ophthalmic Surgery
Fernando González del Valle, MD
Coproducers: Agustín Núñez Sánchez, MD, Javier Celis Sánchez, MD, José Manuel Zarco Tejada, MD, Alvaro Fidalgo Broncano, MD, María José Domínguez Fernández, MD, Luis Jiménez Amat, MD, Javier Lara Medina, MD, PhD
In cases of luxation of an intraocular lens (IOL) secondary to disinsertion of 1 of the haptics from the IOL optic, the surgical solution could be reinserting the haptic or transplanting 1 haptic from another IOL and refixating it by using an intraocular laser probe.

F166 Anterior Chamber Live Motile Parasite
Hamidreza Hasani, MD
A 12-year-old boy presented with blurred vision and red eye for several weeks following swimming in the river. Slitlamp biomicroscopy showed conjunctival redness and a live floating microorganism. Other exams were normal. Under general anesthesia, intracameral acetylcholine (Miochol) was injected to induce miosis to prevent larval migration into the posterior chamber, which led to larval immobilization and death. Larva were then removed from the eye.

F167 Challenging Cataract Surgery
Milan G.J. Izak, MD, PhD
Coproducer: Andrea Cizmarova Izakova, MD
A 20-year-old woman had congenital subluxated cataract surgery. A dense persistent pupillary membrane prevented full pupil dilation. After complete membranectomy and visco pupil dilation, the missing zonule and deep lens position could be seen. Challenging cataract surgery, expanding ring, and PC IOL implantation are demonstrated.

F168 Unexpected Entrance Into Pre-Dua-Descemet Space During Surgical Treatment of Post-Traumatic Endophthalmitis: Unusual Complication
Maria-Jose Leon-Cabello, MD, PhD
We present the surgical treatment of a 1-week evolution posttraumatic endophthalmitis that appeared after an accidental fall with a blowout of the previous PKP wound. We highlight not only the anterior chamber washing and resuturing of the corneal wound, but especially the unusual complication of an unexpected entrance into the pre-dua-Descemet space.

F169 Cataract Surgery in Pseudoexfoliation Cataracts: Surgical Techniques
Puttaiah Mohan, MS, FRCSEd
Coproducer: Mamatha R. Solur, MBBS, MS
Cataract surgery in pseudoexfoliation cataracts is challenging due to weak zonular fibers, poor mydriasis, and increased incidence of intra- and postoperative complications. Video highlights various surgical techniques in managing PXF cataracts of various grades: manual small incision cataract surgery, phacoemulsification, and MICS. These techniques will give good results in PXF cataracts.

F170 Digital Media in Ophthalmology: Dr. internet @ Your Service
Priya S. Narang, MS
Video showcases the use of digital media and the delivery of healthcare services in ophthalmology by using information and communication technologies for the exchange of valid information for diagnosis, treatment, research, upgradation, and evaluation for the continuing education of healthcare providers, in the interest of advancing health of individuals and their communities.

*Denotes financial interest; see Financial Interest Index for full listing
32nd Film Festival Awards  
Boston Convention & Exhibition Center

Who will be the People’s Choice Award Winner?

Your last chance to vote is Sunday, April 27, 5:00 PM. View the films at the meeting kiosks or online.

[www.annualmeeting.ascrs.org](http://www.annualmeeting.ascrs.org)

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**Monday, April 28**

Grand Ballroom

Reception
4:30–5:00 PM

Awards Ceremony
5:00–6:30 PM

**Tuesday, April 29**

Room 150

Final Screening
8:00 AM–4:30 PM

Visit the Film Festival Theatre to watch the award-winning entries.
The power of **one**

THE ONE FEMTO PLATFORM
for cornea, presbyopia and cataract.

Presenting the unparalleled Ziemer FEMTO LDV Z Models – a technical revolution in ocular surgery. No laser is more precise, more powerful or more progressive when it comes to meeting all your procedural needs in a single platform.

With Ziemer’s FEMTO LDV Z Models, now you can operate with a modular femtosecond system that is easy to configure, designed to grow with your practice – cornea and presbyopia today, cataract tomorrow.

www.ziemergroup.com

The Ziemer FEMTO LDV Z Models are FDA cleared and CE marked and available for immediate delivery. For some countries, availability may be restricted due to local regulatory requirements; please contact Ziemer for details. The creation of a corneal pocket is part of a presbyopia intervention. Availability of related corneal inlays and implants according to policy of the individual manufacturers and regulatory status in the individual countries. Cataract procedures with the FEMTO LDV Z2, Z4 and Z6 models are not cleared in the United States and in all other countries. An upgrade possibility for these devices is planned once cataract options are available and cleared by the responsible regulatory bodies.
## ASCRS Program at a Glance

### Friday, April 25

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*Separate registration required
ASCRS Cataract Track

FRIDAY, APRIL 25
5:00–6:00 PM
ASCRS•ASOA Special Government Relations General Session
Grand Ballroom

SATURDAY, APRIL 26
10:00 AM–12:00 PM
ASCRS Opening General Session
Grand Ballroom
1:00–2:30 PM
Symposium S-1: Management of Astigmatism
Sponsored by the ASCRS Refractive Surgery Clinical Committee
Room 210ABC
Course 26-307: Comprehensive Strategy for Unplanned Vitrectomy Technique for the Anterior Segment Surgeon
Room 258A
Lisa B. Arbisser, MD
Course 26-302: Advanced IOL Power Calculations for Cataract and Refractive Surgeon
Room 253A
Jack T. Holladay, MD, MSEE
3:00–4:30 PM
Course 26-402: Phacoemulsification in Difficult and Challenging Cases
Room 253A
Richard S. Hoffman, MD
Course 26-405: Intraocular Lens Exchange
Room 254AB
Samuel Masket, MD

SUNDAY, APRIL 27
8:00–9:30 AM
Course 27-109: Maximizing Cataract Surgery Outcomes With Intraoperative Aberrometry and Streaming Refractive Data
Room 258C
Vance M. Thompson, MD
Course 27-111: Best Management of Cataract Surgery in Complicated Eyes With Shallow ACD and Narrow Angle
Room 206AB
George H. Beiko, BM, BCh, FRCSC
Course 27-108: Management of Difficult Cataracts and Challenging Situations
Room 258B
Abhay R. Vasavada, MS, FRCS
10:00–12:00 PM
The Sunday Summit
Grand Ballroom
10:00–11:00 AM
ASCRS Lecture on Science and Medicine
11:00 AM–12:00 PM
60 Minutes: Future Directions in Anterior Segment Surgery
1:00–2:30 PM
Course 27-309: Learning Phaco Chop: Pearls and Pitfalls
Room 258C
David F. Chang, MD

MONDAY, APRIL 28
8:00–9:30 AM
Symposium S-14: Complicated and Challenging Cases in Cataract Surgery Video Symposium
Sponsored by the ASCRS Cataract Clinical Committee
Room 210ABC
Course 28-104: Corneal Topographic Analysis and Anterior Segment Imaging: Pearls for Your Clinical Practice
Room 253C
Mitchell P. Weikert, MD
Course 28-102: Femtosecond Laser-Assisted Treatment of Complex Cataracts With a Liquid Optics Interface Based Platform  
Room 253A  
Robert P. Rivera, MD  
10:00–11:30 AM  

Innovators Session  
Grand Ballroom  
1:00–2:30 PM  

Symposium S-17: Improving Precision in Ophthalmic Surgery: Are We Doing Enough?  
Sponsored by the Journal of Cataract & Refractive Surgery  
Room 205ABC  

Course 28-307: Advanced Cataract and Anterior Segment Surgery: International Video Symposium  
Room 258A  
Kevin M. Miller, MD  
3:00–4:30 PM  

Course 28-309: MicroInvasive Glaucoma Surgery: Indications, Approaches, and Techniques  
Room 258C  
Ike K. Ahmed, MD  

Course 28-404: Intraocular Lens Exchange and Repositioning Techniques  
Room 253C  
Alan S. Crandall, MD  

Course 28-401: Innovative Uses of Adhesives in Anterior Segment Surgery  
Room 252AB  
Terry Kim, MD  

Course 28-409: Refractive and Cataract Surgery Nightmares: Management and Prevention of Premium IOLs and Laser Vision Correction Complications  
Room 258C  
Donald N. Serafano, MD  
4:30–6:30 PM  

ASCRS Film Festival Reception and Awards Ceremony  
Grand Ballroom  

TUESDAY, APRIL 29  
8:00–9:30 AM  

Symposium S-22: Femtosecond Laser Refractive Cataract Surgery  
Room 204AB  

Course 29-106: Understanding OVDs to Optimize Their Use in Cataract Surgery and Complications  
Room 257AB  
Steve A. Arshinoff, MD, FRCSC  

Course 29-103: Surgical Management of Subluxated Lenses  
Room 253B  
Ehud I. Assia, MD  
10:00–11:30 AM  

Symposium S-23: X-Rounds: Refractive Cataract Surgery to the Max  
Grand Ballroom  

Course 29-203: Multifocal IOLs: Standards, New Technologies, and Outlook in Future Developments in Europe and U.S.  
Room 253B  
Gerd U. Auffarth, MD  
1:00–2:30 PM  

Course 29-306: Surgical Astigmatism Management for Cataract Patient: Preoperative Planning, Intraoperative Techniques and Postoperative Results  
Room 257AB  
Kathryn M. Hatch, MD  

Course 29-302: Spontaneous Late In-the-Bag IOL Dislocation: Etiology, Risk Factors, Prevention, and Management  
Room 253A  
Ramón Lorente, MD, PhD  
3:00–4:30 PM  

Hot Off the Press  
Grand Ballroom
## FRIDAY, APRIL 25

5:00–6:00 PM

**ASCRS•ASOA Special Government Relations General Session**

*Grand Ballroom*

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### SATURDAY, APRIL 26

10:00 AM–12:00 PM

**ASCRS Opening General Session**

*Grand Ballroom*

1:00–2:30 PM

**Course 26-309: Phaco Nightmares and Worst Case Scenarios: Video-Based Course**

*Room 258C*

*Amar Agarwal, FRCS*

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**Course 26-301: Strategies for Successful Management of Patients Unhappy With Visual Results of Their Premium IOL**

*Room 252AB*

*Thomas M. Harvey, MD*

**Symposium S-2: Corneal Collagen Crosslinking: Where Are We Now and What Does the Future Hold?**

*Sponsored by the ASCRS FDA Committee*

*Room 204AB*

**Course 26-405: Intraocular Lens Exchange**

*Room 254AB*

*Samuel Masket, MD*

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### SUNDAY, APRIL 27

8:00–9:30 AM

**Symposium S-6: Survive or Thrive in the Modern Healthcare Environment: Clinical Changes to Practice**

*Room 210ABC*

**Course 27-106: Femto in the Cataract Practice: Advancements, Benefits, and Adjustments to Adopting Laser Cataract Surgery**

*Room 257AB*

*George O. Waring IV, MD, FACS*

**Course 27-109: Maximizing Refractive Cataract Surgery Outcomes With Intraoperative Aberrometry and Streaming Refractive Data**

*Room 258C*

*Vance M. Thompson, MD*

10:00 AM–12:00 PM

**The Sunday Summit**

*Grand Ballroom*

**Course 27-408: Effective Use of Capsular Tension Devices**

*Room 258B*

*Robert J. Cionni, MD*

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### MONDAY, APRIL 28

(Special Time: 7:00–8:30 AM)

**Course 28-101: 2014 Legislative and Regulatory Update**

*Room 150*

*Nancye McCann*

8:00–9:30 AM

**Symposium S-14: Complicated and Challenging Cases in Cataract Surgery Video Symposium**

*Sponsored by the ASCRS Cataract Clinical Committee*

*Room 210ABC*
ASCNs Comprehensive Track

Symposium S-15: Update on Corneal Collagen Crosslinking
Jointly Sponsored by the Cornea Clinical Committee and the Refractive Surgery Clinical Committee
Room 205ABC
10:00–11:30 AM

Innovators Session
Grand Ballroom
1:00–2:30 PM

Symposium S-17: Improving Precision in Ophthalmic Surgery: Are We Doing Enough?
Sponsored by Journal of Cataract & Refractive Surgery
Room 205ABC

Course 28-309: Microinvasive Glaucoma Surgery: Indications, Approaches, and Techniques
Ike K. Ahmed, MD
Room 258C

Sponsored by CLAO
Room 204AB
3:00–4:30 PM

Symposium S-19: Managing Refractive Issues in Glaucoma Patients
Sponsored by the ASCRS Glaucoma Clinical Committee
Room 205ABC

Course 28-409: Refractive and Cataract Surgery Nightmares: Management and Prevention of Premium IOLs and Laser Vision Correction Complications
Donald N. Serafano, MD
Room 258C

Symposium S-20: Data Security: HIPAA Compliance and the Meaningful Use Data Security Requirement
Sponsored by the ASCRS Health Information Technology Committee
Room 204AB
4:30–6:30 PM

ASCNs Film Festival Reception and Awards Ceremony
Grand Ballroom

TUESDAY, APRIL 29

8:00–9:30 AM

Symposium S-22: Femtosecond Laser Refractive Cataract Surgery
Room 204AB

Course 29-106: Understanding OVDs to Optimize Their Use in Cataract Surgery and Complications
Steve A. Arshinoff, MD, FRCSC
Room 257AB

Course 29-107: Video-Based Complex Cataract Surgery: Complications Reviewed—Learning From Our Mistakes
David A. Crandall, MD
Room 258A

10:00–11:30 AM

Symposium S-23: X-Rounds: Refractive Cataract Surgery to the Max
Grand Ballroom

Course 29-211: Surgical Management of Coexisting Cataract and Glaucoma: Special Emphasis on Pseudoexfoliation
Bradford J. Shingleton, MD
Room 259AB

Course 29-212: Clinical Smartphone Photography
Clifford Terry, MD
Room 206AB

Course 29-304: Big Bubble, No Trouble: Step-by-Step Approach to Successful Deep Anterior Lamellar Keratoplasty
Alaa M. El-Danasoury, MD
Room 253C

Hot Off the Press
Grand Ballroom

Course 29-308: Tackling Posterior Capsule Rupture and IOL Implantation: Video-Based Course
Priya S. Narang, MS
Room 258A

Course 29-309: Vitrectomy by Anterior Segment Surgeon for Broken Posterior Capsule, Sinking Nucleus, and Dangling IOL
Soosan Jacob, FRCS, MS
Room 258C
3:00–4:30 PM

ASCNs Comprehensive Track
ASCRS Cornea Track

FRIDAY, APRIL 25

5:00–6:00 PM
ASCRS•ASOA Special Government Relations General Session
Grand Ballroom

SATURDAY, APRIL 26

10:00 AM–12:00 PM
ASCRS Opening General Session
Grand Ballroom

1:00–2:30 PM
Course 26-303: Simple and Safe Endothelial Keratoplasty (DSAEK and DMEK) and DALK Surgery to Avoid Complications and Enhance Results
Room 253B
Mark A. Terry, MD

Course 26-310: Use of Surgical Adhesives and Amniotic Membrane in Ocular Surgery
Room 259AB
John A. Hovanesian, MD

Symposium S-1: Management of Astigmatism
Sponsored by the ASCRS Refractive Surgery Clinical Committee
Room 210ABC

3:00–4:30 PM
Course 26-404: Mastering Transepithelial and Epi-Off Corneal Collagen Crosslinking for Keratoconus and Post-LASIK Ectasia
Room 253C
Ray S. Rubinfeld, MD

SUNDAY, APRIL 27

8:00–9:30 AM
Course 26-408: Achieving Proper Centration and Alignment in Intraocular and Keratorefractive Surgery
Room 258B
Daniel H. Chang, MD

Symposium S-3: Imaging the Anterior Segment With the Ophthalmic Photographers’ Society
Sponsored by the Ophthalmic Photographers’ Society
Room 204AB

10:00 AM–12:00 PM
The Sunday Summit
Grand Ballroom

10:00–11:00 AM
ASCRS Lecture on Science and Medicine

11:00 AM–12:00 PM
60 Minutes: Future Directions in Anterior Segment Surgery

1:00–2:30 PM
Course 26-303: Better Surgery Through Chemicals: Topical and Intracameral Agents for the Anterior Segment Surgeon
Room 253B
Massimo Busin, MD

Course 27-303: Management of Iris Deficiencies
Room 253A
Michael E. Snyder, MD

Symposium S-11: Pardon the Ophthalmology: Hot Topics in Cornea and External Disease
Sponsored by the ASCRS Cornea Clinical Committee
Grand Ballroom
MONDAY, APRIL 28

8:00–9:30 AM
Course 28-103: Descemet-Stripping Endothelial Keratoplasty Under Challenging Conditions
Room 253B
M. Bowes Hamill, MD

Symposium S-15: Update on Corneal Collagen Crosslinking
Room 205ABC
Jointly Sponsored by the Cornea Clinical Committee and the Refractive Surgery Clinical Committee

Course 28-104: Corneal Topographic Analysis and Anterior Segment Imaging: Pearls for Your Clinical Practice
Room 253C
Mitchell P. Weikert, MD

10:00–11:30 AM
Innovators Session
Grand Ballroom

TUESDAY, APRIL 29

8:00–9:30 AM
Course 29-103: Surgical Management of Subluxated Lenses
Room 253B
Ehud I. Assia, MD

Course 29-111: State-of-the-Art in Keratoconus Treatment: New Corneal Rings, Crosslinking, Thermal Treatment, DALK, and Femtosecond Laser
Room 206AB
Francisco Sánchez León, MD

3:00–4:30 PM
Course 28-401: Innovative Uses of Adhesives in Anterior Segment Surgery
Room 252AB
Terry Kim, MD

Course 28-403: Use of Femtosecond Laser for Complex Cataract Surgery: Cases That I Could Not Have Done Without the Femtosecond Laser
Room 253B
Richard S. Davidson, MD

Room 210ABC

4:30–6:30 PM
ASCRS Film Festival Reception and Awards Ceremony
Grand Ballroom

3:00–4:30 PM
Course 28-401: Innovative Uses of Adhesives in Anterior Segment Surgery
Room 252AB
Terry Kim, MD

Course 28-403: Use of Femtosecond Laser for Complex Cataract Surgery: Cases That I Could Not Have Done Without the Femtosecond Laser
Room 253B
Richard S. Davidson, MD

Room 210ABC

10:00–11:30 AM
Course 29-204: From Basic to Advanced: Deep Anterior Lamellar Keratoplasty
Room 253C
Vincenzo Sarnicola, MD

Course 29-212: Clinical Smartphone Photography
Room 206AB
Clifford Terry, MD

Symposium S-23: X-Rounds: Refractive Cataract Surgery to the Max
Grand Ballroom

1:00–2:30 PM
Course 29-304: Big Bubble, No Trouble: Step-by-Step Approach to Successful Deep Anterior Lamellar Keratoplasty
Room 253C
Alaa M. El-Danasoury, MD

Course 29-310: Understanding Aberrations to Enhance Outcomes in Lens- and Cornea-Based Refractive Surgery
Room 258B
Samaresh Srivastava, DNB

Course 29-303: Comprehensive Review of Femtosecond Cataract Surgery
Room 253B
Baseer Khan, MD, FRCSC

3:00–4:30 PM
Hot Off the Press
Grand Ballroom
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room/Location</th>
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<tbody>
<tr>
<td>5:00–6:00 PM</td>
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<td>Symposium S-7: Clinical Challenges in the Co-Management of Glaucoma and Retinal Disease</td>
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<td>1:00–2:30 PM</td>
<td>Course 26-305: Ultimate MIGS Triple Procedure</td>
<td>Room 254AB</td>
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<td>Parag Parekh, MD, MPA</td>
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<td>3:00–4:30 PM</td>
<td>Course 26-310: Use of Surgical Adhesives and Amniotic Membrane in Ocular Surgery</td>
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<td>Course 27-308: Extracapsular Cataract Extraction Surgery: Endangered Procedure</td>
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<td>Course 27-304: Consistently Accurate IOL Power Calculations</td>
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<td>1:00–2:30 PM</td>
<td>Course 27-410: Trabeculectomies and Tube Shunts for the Comprehensive Ophthalmologist</td>
<td>Room 259AB</td>
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<td>Nir Shoham-Hazon, MD</td>
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<td>1:00–2:30 PM</td>
<td>Symposium S-12: Cataract Dilemmas</td>
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</table>
MONDAY, APRIL 28

(Special Time: 7:00–8:30 AM)

Course 28-101: 2014 Legislative and Regulatory Update
Room 150
Nancey McCann
8:00–9:30 AM

Symposium S-14: Complicated and Challenging Cases in Cataract Surgery Video Symposium
Sponsored by the ASCRS Cataract Clinical Committee
Room 210ABC

Course 28-107: Optical Coherence Tomography: Essentials and Pearls for Anterior Segment Surgeon
Room 258A
S. Akbar Hasan, MD
10:00–11:30 AM

Innovators Session
Grand Ballroom

Course 28-207: Getting Started With MIGS: Tips for Successful Use of Trabecular Micro-Bypass Stent
Room 258A
Carlos Buznego, MD
1:00–2:30 PM

Course 28-202: 360-Degree Clear Corneal Trabeculotomy for Comprehensive Ophthalmologist in Surgical Management of Open-Angle Glaucoma
Room 253A
David Badawi, MD

Course 28-209: MicroInvasive Glaucoma Surgery: Indications, Approaches, and Techniques
Room 258C
Ike K. Ahmed, MD

Symposium S-17: Improving Precision in Ophthalmic Surgery: Are We Doing Enough?
Sponsored by the Journal of Cataract & Refractive Surgery
Room 205ABC

Course 28-303: Ocular Surface Procedures in the Treatment
Room 253B
Clara C. Chan, MD, FRCSC
3:00–4:00 PM

Symposium S-19: Managing Refractive Issues in Glaucoma Patients
Sponsored by the ASCRS Glaucoma Clinical Committee
Room 205ABC

Course 28-410: Tubes, Ties, and Videotape: Surgical Video of Glaucoma Implants and Managing Complications
Room 259AB
Herbert P. Fechter III, MD

TUESDAY, APRIL 29

8:00–9:30 AM

Course 29-101: Nonpenetrating Combined Procedure for Beginners
Room 252AB
Cyres K. Mehta, MD, MCH

Course 29-106: Understanding OVDs to Optimize Their Use in Cataract Surgery and Complications
Room 257AB
Steve A. Arshinoff, MD, FRCSC

Course 29-109: Mission Possible: Phacoemulsification in Difficult and Challenging Cases
Room 258C
Suresh K. Pandey, MD
10:00–11:30 AM

Course 29-211: Surgical Management of Coexisting Cataract and Glaucoma: Special Emphasis on Pseudoexfoliation
Room 259AB
Bradford J. Shingleton, MD

Course 29-202: Surgery for Coexisting Cataract and Glaucoma: Uneasy Relationship
Room 253A
Ahmad K. Khalil, MD, PhD

Symposium S-23: X-Rounds: Refractive Cataract Surgery to the Max
Grand Ballroom
1:00–2:30 PM

Course 29-301: Surgical Management of Patients With Coexisting Cataract and Glaucoma
Room 252AB
Desmond Tung Lien Quek, MBBS, FRCSEd

Course 29-302: Spontaneous Late in-the-Bag IOL Dislocation: Etiology, Risk Factors, Prevention, and Management
Room 253A
Ramón Lorente, MD, PhD

Course 29-309: Vitrectomy by Anterior Segment Surgeon for Broken Posterior Capsule, Sinking Nucleus, and Dangling IOL
Room 258C
Soosan Jacob, FRCS, MS
3:00–4:30 PM

Hot Off the Press
Grand Ballroom
ASCRRS Refractive Surgery Track

FRIDAY, APRIL 25

5:00–6:00 PM

ASCRRS•ASOA Special Government Relations General Session  
Grand Ballroom

SATURDAY, APRIL 26

10:00 AM–12:00 PM

ASCRRS Opening General Session  
Grand Ballroom

1:00–2:30 PM

Symposium S-1: Management of Astigmatism  
Sponsored by the ASCRRS Refractive Surgery Clinical Committee  
Room 210ABC

Course 26-304: Femtosecond Laser-Assisted Refractive Cataract Surgery  
Room 253C  
Richard M. Awdeh, MD

Course 26-301: Strategies for Successful Management of Patients Unhappy With Visual Results of Their Premium IOL  
Room 252AB  
Thomas M. Harvey, MD

3:00–4:30 PM

Symposium S-4: Challenging Video Cases for the Young Surgeon  
Sponsored by the ASCRRS Young Physicians & Residents Clinical Committee  
Room 205ABC

SUNDAY, APRIL 27

8:00–9:30 AM

Symposium S-8: Combined Symposia of Cataract and Refractive Societies  
Sponsored by the Alliance of Cataract and Refractive Specialty Societies; ASCRRS, APACRS, ESCR, ALACCSA-R (LASCRS)  
Room 204AB

Course 27-102: Refractive Outcome of Keratoconus Treatment  
Room 253A  
Mahmoud M. Ismail, MD, PhD

Course 27-109: Maximizing Refractive Cataract Surgery Outcomes With Intraoperative Aberrometry and Streaming Refractive Data  
Room 258C  
Vance M. Thompson, MD

10:00 AM–12:00 PM

The Sunday Summit  
Grand Ballroom

10:00–11:00 AM

ASCRRS Lecture on Science and Medicine

11:00 AM–12:00 PM

60 Minutes: Future Directions in Anterior Segment Surgery

1:00–2:30 PM

Symposium S-10: The Integrated Eyecare Model: Should I or Shouldn’t I?  
Jointly Sponsored by ASOA and ASCRRS  
Room 204AB

Course 27-301: Refractive Surgery Nightmares and Worst Case Scenarios: Video-Based Course  
Room 252AB  
Athiya Agarwal, MD

Course 27-304: Consistently Accurate IOL Power Calculations  
Room 253C  
Warren E. Hill, MD

3:00–4:30 PM

Course 27-404: Intraocular Lens Calculation After Refractive Surgery  
Room 253C  
Wolfgang Haigis, MS, PhD

Course 27-406: Refractive Surgery on Trial  
Room 257AB  
Steven I. Rosenfeld, MD
### ASCRS Refractive Surgery Track

**Course 27-409: Management of Astigmatism in Conjunction With Clear Corneal Phaco Surgery**  
**Room 258C**  
Louis D. Nichamin, MD

**MONDAY, APRIL 28**

**8:00–9:30 AM**

Symposium S-16: Military Refractive Surgery Symposium  
**Room 204AB**

Course 28-104: Corneal Topographic Analysis and Anterior Segment Imaging: Pearls for Your Clinical Practice  
**Room 253C**  
Mitchell P. Weikert, MD

10:00–11:30 AM

Innovators Session  
**Grand Ballroom**

1:00–2:30 PM

**Room 204AB**

Course 28-302: Pearls for Small Aperture Corneal Inlay Implantation  
**Room 253A**  
Minoru Tomita, MD, PhD

Course 28-304: Controversies in Identifying Risk Factors for Post-LASIK Ectasia  
**Room 253C**  
William B. Trattler, MD

**3:00–4:30 PM**

Symposium S-20: Data Security: HIPAA Compliance and the Meaningful Use Data Security Requirement  
Sponsored by the ASCRS Health Information Technology Committee  
**Room 204AB**

Course 28-409: Refractive and Cataract Surgery Nightmares: Management and Prevention of Premium IOLs and Laser Vision Correction Complications  
**Room 258C**  
Donald N. Serafano, MD

**Room 210ABC**

4:30–6:30 PM

ASCRS Film Festival Reception and Awards Ceremony  
**Grand Ballroom**

**TUESDAY, APRIL 29**

**8:00–9:30 AM**

Symposium S-22: Femtosecond Laser Refractive Cataract Surgery  
**Room 204AB**

Course 29-104: Perfect LASIK Flaps With Different Femtosecond Platforms: Techniques in Femto-Flap Creation and Management of Unexpected Scenarios in LASIK  
**Room 253C**  
Mohamad Rosman, FRCSEd(Ophth), FAMS

Course 29-110: Off-Label Prescribing: International Concerns, Considerations, and Recommendations  
**Room 259AB**  
John D. Banja, PhD

**10:00–11:30 AM**

Symposium S-23: X-Rounds: Refractive Cataract Surgery to the Max  
**Grand Ballroom**

Course 29-201: Controversies in Refractive Surgery  
**Room 252AB**  
Chitra R. Ramamurthy, MD

Course 29-203: Multifocal IOLs: Standards, New Technologies, and Outlook in Future Developments in Europe and U.S.  
**Room 253B**  
Gerd U. Auffarth, MD

1:00–2:30 PM

Course 29-306: Surgical Astigmatism Management for Cataract Patient: Preoperative Planning, Intraoperative Techniques, and Postoperative Results  
**Room 257AB**  
Kathryn M. Hatch, MD

Course 29-310: Understanding Aberrations to Enhance Outcomes in Lens- and Cornea-Based Refractive Surgery  
**Room 258B**  
Samaresh Srivastava, DNB

3:00–4:30 PM

Hot Off the Press  
**Grand Ballroom**
### FRIDAY, APRIL 25

**5:00–6:00 PM**

ASCRS•ASOA Special Government Relations General Session  
Grand Ballroom

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### SATURDAY, APRIL 26

**10:00 AM–12:00 PM**

ASCRS Opening General Session  
Grand Ballroom

**1:00–2:30 PM**

Course 26-307: Comprehensive Strategy for Unplanned Vitrectomy Technique for the Anterior Segment Surgeon  
Room 258A  
Lisa B. Arbisser, MD

Course 26-309: Phaco Nightmares and Worst Case Scenarios: Video-Based Course  
Room 258C  
Amar Agarwal, FRCS

Course 26-310: Use of Surgical Adhesives and Amniotic Membrane in Ocular Surgery  
Room 259AB  
John A. Hovanesian, MD

**3:00–4:30 PM**

Paper Session 1-G: Retina  
Room 150

Course 26-407: Iris Suture Repair and IOL Fixation  
Room 258A  
Steven B. Siepser, MD, FACS

Course 26-409: Posterior Capsule Rupture and Zonular Dialysis Management  
Room 258C  
Haripriya Aravind, MD

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### SUNDAY, APRIL 27

**8:00–9:30 AM**

Symposium S-7: Clinical Challenges in the Co-Management of Glaucoma and Retinal Disease  
Jointly sponsored by the ASCRS Glaucoma Clinical Committee and the ASCRS Retina Clinical Committee  
Room 205ABC

Course 26-405: Intraocular Lens Exchange  
Room 254AB  
Samuel Masket, MD

Course 26-407: Iris Suture Repair and IOL Fixation  
Room 258A  
Steven B. Siepser, MD, FACS

Course 27-108: Management of Difficult Cataracts and Challenging Situations  
Room 258B  
Abhay R. Vasavada, MS, FRCS

Course 27-110: Strategic Prevention and Management of Common Intraoperative and Postoperative Complications for Beginning and Intermediate DSEK/DSAEK Surgeon  
Room 259AB  
Edwin S. Chen, MD

The Sunday Summit  
Grand Ballroom

**1:00–2:30 PM**

**Symposium S-10: The Integrated Eyecare Model: Should I or Shouldn’t I**  
Jointly Sponsored by ASOA and ASCRS  
Room 204AB

Course 27-302: International Video Symposium of Challenging Cases and Complication Management  
Room 206AB  
Richard L. Lindstrom, MD

**3:00–4:30 PM**

**Symposium S-13: Video-Symposium: Challenging Cases and Complication management**  
Sponsored by BRASCRS (Brazilian Society of Cataract and Refractive Surgery)  
Room 204AB

Course 27-403: Managing the Malpositioned IOL  
Room 253B  
Soon-Phaik Chee, FRCSE

Course 27-408: Effective Use of Capsular Tension Devices  
Room 258B  
Robert J. Cionni, MD

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### MONDAY, APRIL 28

**8:00–9:30 AM**

Symposium S-14: Complicated and Challenging Cases in Cataract Surgery Video Symposium  
Sponsored by the ASCRS Cataract Clinical Committee  
Room 210ABC
ASCRS Retina Track

Course 28-107: Optical Coherence Tomography: Essentials and Pearls for Anterior Segment Surgeon
*Room 258A*
S. Akbar Hasan, MD

Course 28-109: Transforming Technique and Technology: 3-D Video Course in Challenging Cataract Surgery
*Room 258C*
Mathew K. Kummelil, MD
10:00–11:30 AM

Innovators Session
*Grand Ballroom*
1:00–2:30 PM

Symposium S-17: Focus on Technique: What the Anterior Segment Surgeon Needs to Know in 2014
*Sponsored by the Journal of Cataract & Refractive Surgery*
*Room 205ABC*

Course 28-305: Intraocular Lens Power Calculation: Forty Years Later
*Room 254AB*
Kenneth J. Hoffer, MD

Course 28-307: Advanced Cataract and Anterior Segment Surgery: International Video Symposium
*Room 258A*
Kevin M. Miller, MD
3:00–4:30 PM

*Room 210ABC*

Course 28-104: International Lens Exchange and Repositioning Techniques
*Room 253C*
Alan S. Crandall, MD

Course 28-409: Refractive and Cataract Surgery Nightmares: Management and Prevention of Premium IOLs and Laser Vision Correction Complications
*Room 258C*
Donald N. Serafano, MD
4:30–6:30 PM

ASCRS Film Festival Reception and Awards Ceremony
*Grand Ballroom*

TUESDAY, APRIL 29

8:00–9:30 AM

Symposium S-22: Femtosecond Laser Refractive Cataract Surgery
*Room 204AB*

Course 29-103: Surgical Management of Subluxated Lenses
*Room 253B*
Ehud I. Assia, MD

Course 29-106: Understanding OVDs to Optimize Their Use in Cataract Surgery and Complications
*Room 257AB*
Steve A. Arshinoff, MD, FRCSC
10:00–11:30 AM

Course 29-203: Multifocal IOLs: Standards, New Technologies, and Outlook in Future Developments in Europe and U.S.
*Room 253B*
Gerd U. Auffarth, MD

Course 29-205: Mastering Femtophaco Surgery
*Room 254AB*
Ronald Yeoh, MD

Course 29-211: Surgical Management of Coexisting Cataract and Glaucoma: Special Emphasis on Pseudoexfoliation
*Room 259AB*
Bradford J. Shingleton, MD
1:00–2:30 PM

Course 29-302: Spontaneous Late in-the-Bag IOL Dislocation: Etiology, Risk Factors, Prevention, and Management
*Room 253A*
Ramón Lorente, MD, PhD

Course 29-309: Vitrectomy by Anterior Segment Surgeon for Broken Posterior Capsule, Sinking Nucleus, and Dangling IOL
*Room 258C*
Soosan Jacob, FRCS, MS

Course 29-311: Intraocular Lens Implantation in the Absence of Capsule Support
*Room 259AB*
Mohan Rajan, MD
3:00–4:30 PM

Hot Off the Press
*Grand Ballroom*
## ASCRS Young Physicians & Residents Track

| FRIDAY, APRIL 25 | 5:00–6:00 PM |  
|---|---|--- |
| ASCRS•ASOA Special Government Relations General Session | Grand Ballroom |  
| SATURDAY, APRIL 26 | 8:00 AM–12:45 PM |  
| ASCRS Resident and Fellow Program | Room 205ABC |  
| Please note: Separate free registration for the ASCRS Resident and Fellow Program | |  
| 10:00 AM–12:00 PM |  
| ASCRS Opening General Session | Grand Ballroom |  
| 1:00–2:30 PM |  
| Symposium S-1: Management of Astigmatism | Sponsored by the ASCRS Refractive Surgery Clinical Committee | Room 210ABC |
| Course 26-307: Comprehensive Strategy for Unplanned Vitrectomy Technique for the Anterior Segment Surgeon | Room 258A | Lisa B. Arbisser, MD |
| Course 26-308: Phaco Fundamentals | Room 258B | Gary Foster, MD |
| 3:00–4:30 PM |  
| Symposium S-4: Challenging Video Cases for the Young Surgeon | Sponsored by the ASCRS Young Physicians & Residents Clinical Committee | Room 205ABC |

### Course 26-404: Mastering Transepithelial and Epi-Off Corneal Collagen Crosslinking for Keratoconus and Post-LASIK Ectasia
- **Room 253C**
- Roy S. Rubinfeld, MD

### Course 26-407: Iris Suture Repair and IOL Fixation
- **Room 258A**
- Steven R. Siepser, MD, FACS

### Course 26-409: Posterior Capsule Rupture and Zonular Dialysis Management
- **Room 258C**
- Haripriya Aravind, MD

### SUNDAY, APRIL 27

| 8:00–9:30 AM |  
| Symposium S-7: Clinical Challenges in the Co-Management of Glaucoma and Retinal Disease | Jointly Sponsored by the ASCRS Glaucoma Clinical Committee and the ASCRS Retina Clinical Committee | Room 205ABC |
| Course 26-307: Comprehensive Strategy for Unplanned Vitrectomy Technique for the Anterior Segment Surgeon | Room 258A | Lisa B. Arbisser, MD |
| Course 26-308: Phaco Fundamentals | Room 258B | Gary Foster, MD |
| 3:00–4:30 PM |  
| Symposium S-4: Challenging Video Cases for the Young Surgeon | Sponsored by the ASCRS Young Physicians & Residents Clinical Committee | Room 205ABC |

### Course 26-404: Mastering Transepithelial and Epi-Off Corneal Collagen Crosslinking for Keratoconus and Post-LASIK Ectasia
- **Room 253C**
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### Course 26-407: Iris Suture Repair and IOL Fixation
- **Room 258A**
- Steven R. Siepser, MD, FACS

### Course 26-409: Posterior Capsule Rupture and Zonular Dialysis Management
- **Room 258C**
- Haripriya Aravind, MD

### 10:00 AM–12:00 PM

| The Sunday Summit | Grand Ballroom |  
| 10:00–11:00 AM |  
| ASCRS Lecture on Science and Medicine |  
| 11:00 AM–12:00 PM |  
| 60 Minutes: Future Directions in Anterior Segment Surgery |  
| 1:00–2:30 PM |  
| Course 27-308: Extracapsular Cataract Extraction Surgery: Endangered Procedure | Room 258B | Bonnie An Henderson, MD |
| Course 27-304: Consistently Accurate IOL Power Calculations | Room 253C | Warren E. Hill, MD |
| Course 27-309: Learning Phaco Chop: Pearls and Pitfalls | Room 258C | David F. Chang, MD |
| Course 27-310: Multifocal, Toric Multifocal, and Accommodating IOLs: Face the Challenge | Room 259AB | Matteo Piovella, MD |
| 3:00–4:30 PM |  
| Symposium S-11: Pardon the Ophthalmology: Hot Topics in Cornea and External Disease | Sponsored by the ASCRS Cornea Clinical Committee | Grand Ballroom |
| Symposium S-12: Cataract Dilemmas | Sponsored by the ASCRS Cataract Clinical Committee | Room 205ABC |
ASCNS Young Physicians & Residents Track

Course 27-408: Effective Use of Capsular Tension Devices
Room 258B
Robert J. Cionni, MD

Course 28-304: Controversies in Identifying Risk Factors for Post-LASIK Ectasia
Room 253C
William B. Trattler, MD
3:00–4:30 PM

Symposium S-19: Managing Refractive Issues in Glaucoma Patients
Sponsored by the ASCRS Glaucoma Committee
Room 205ABC

Symposium S-23: X-Rounds: Refractive Cataract Surgery to the Max
Grand Ballroom

Course 29-109: Mission Possible: Phacoemulsification in Difficult and Challenging Cases
Room 258C
Suresh K. Pandey, MD
10:00–11:30 AM

Room 210ABC

Course 28-104: Corneal Topographic Analysis and Anterior Segment Imaging: Pearls for Your Clinical Practice
Room 253C
Mitchell P. Weikert, MD
10:00–11:30 AM

Innovators Session
Grand Ballroom
1:00–2:30 PM

Symposium S-17: Improving Precision in Ophthalmic Surgery: Are We Doing Enough?
Sponsored by the Journal of Cataract & Refractive Surgery
Room 205ABC

Course 28-201: Controversies in Refractive Surgery
Room 252AB
Chitra R. Ramamurthy, MD
1:00–2:30 PM

Course 28-303: Comprehensive Review of Femtosecond Cataract Surgery
Room 253B
Basser Khan, MD, FRCSC
3:00–4:30 PM

Hot Off the Press
Grand Ballroom
Integrated Ophthalmic-Managed Eyecare Delivery Track (IOMED)

ASCRS is a COPE-Approved Administrator/Provider presenting COPE- Qualified Courses within the 2014 ASCRS•ASOA Symposium & Congress (COPE Event 106934).

Please note: All participants must have their badges scanned prior to the start and at the end of each course to verify attendance for credit. Credit will not be provided if attendance is not verified.

SATURDAY, APRIL 26

1:00–1:15 PM
Welcome—Introduction Room 206AB

1:15–2:15 PM
Management of the Advanced Technology Patient
COPE ID 40631 (1 Hour)
Moderator: Scott G. Hauswirth, OD*
Panelists: David R. Hardten, MD,*
Richard L. Lindstrom, MD*
• Integrated Model
• Crosslinking
• Ocular Surface Disease

2:15 Break

2:30–3:30 PM
Practice Management—Strategies/Efficiencies
COPE ID 40546 (1 Hour)
Moderators: Richard C. Edlow, OD,
I. Howard Fine, MD
Panelists: Barry Barresi, OD, PhD,
Dana Ondrias, OD,
Charles D. Smith*
• Disruptive Technology
— Clinical Integration via Healthcare Information Technology
— Workflow Technology to Maximize Interaction and Efficiency
• Recruitment Strategies and Compensation Methods
• What You Always Wanted to Know About An Integrated Practice

3:30 Break

3:45–4:45 PM
Challenging Cases in an Integrated Eyecare Setting: How We Manage Them
COPE ID 40466 (1 Hour)
Moderators: Derek N. Cunningham, OD, FAAO*
Sherman W. Reeves, MD, MPH*
Panelists: Marlane J. Brown, OD,
Casey Claypool, OD,
Stephen S. Lane, MD,*
William F. Wiley, MD*
• LASIK Complications
• Cataract Complications
• Premium IOL Complications
• Keratoconus Challenges

5:00–6:00 PM Reception

SUNDAY, APRIL 27

8:00–9:30 AM
Course 27-105: Co-management Essentials Room 254AB
and New Concepts
COPE ID 40276 (1.5 Hours)
Kevin L. Waltz, OD, MD*
Course will describe co-management requirements and a brief overview of their historical development. It will also present new concepts created by premium IOLs and femtosecond lasers. Case studies of real situations will be used to illustrate and explain the controversies.

Course 27-103: Collagen Crosslinking: Room 253B
Evolving Indications and Technology, Applications, Results, and Complication Management
COPE ID 40328 (1.5 Hours)
A. John Kanellopoulos, MD*
Course will present management of ectasia (keratoconus/postrefractive surgery). Surgical treatment modalities used internationally will be presented, including CXL with UVA combined with customized excimer ablation and topography customized CXL applications. These alternatives to intracorneal ring implantation, lamellar graft, and penetrating graft will be analyzed. Early and late complications will be discussed.

*Denotes financial interest; see Financial Interest Index for full listing
Integrated Ophthalmic-Managed Eyecare Delivery Track (IOMED)

Course 27-104: Optimal Care of Meibomian Gland Dysfunction and the Evaporative Dry-Eye Patient in Busy Surgical Practice
Room 253C
COPE ID 40294 (1.5 Hours)
Alan N. Carlson, MD*
Course will explore ways of managing the evaporative-dry-eye patient using advanced technology for assessing and treating meibomian gland dysfunction. Learn how surgeons successfully integrate the latest technologies in dry-eye management with minimal disruption to current patient flow.

10:00–11:30 AM

Course 27-205: Management of Myopia in Adolescent Patients
Room 254AB
COPE ID 37491 (1.5 Hours)
Sami El Hage, PhD, OD
Course will discuss the field of myopia management and control in children. This in the face of myopia incidence increasing from roughly 5% to a projected 50% incidence worldwide. WHO and CDC are referring to the growth of myopia in China as an epidemic. Even in the U.S., myopia incidence has increased by 60% in the last several decades. In light of this, we are in need of a new and more effective protocol for the management of myopia among our adolescent patients. Peripheral hyperopia defocus plays an important role in myopia confinement.

Course 27-204: Enhanced Screening for Ectasia Susceptibility: Going Beyond (Not Over) Topography and CCT Using Corneal Tomography and Biomechanical Assessment
Room 253C
COPE ID 37489 (1.5 Hours)
Renato Ambrósio Jr, MD, PhD*
Course will present current understanding and clinical applications of corneal tomography and biomechanical measurements for the enhanced screening ectasia risk (susceptibility) beyond topography and CCT. Focus on clinical interpretation will be given. The concept of ectasia susceptibility and novel approaches to clinical evaluation of corneal biomechanics will be discussed.

Course 27-203: Achieving Successful Outcomes With Accommodating and Accommodating Toric IOLs
Room 253B
COPE ID 40287 (1.5 Hours)
James A. Davies, MD*
Course will instruct attendees in proper patient selection, biometric IOL calculations (including post-corneal refractive surgery), surgical technique and postoperative care for accommodating IOLs, including a newly approved design for the correction of corneal astigmatism. Case studies and surgical videos will be used to support the principles taught.

1:00–2:30 PM

Symposium S-10: The Integrated Eyecare Model: Should I or Shouldn’t I?
Room 204AB
COPE ID 40514 (1.5 Hours)
Jointly Sponsored by ASOA and ASCRS
Moderator:  Sondra Hoffman, COE, CPC, CMPE
Panelists:  Hayley G. Boling, MBA
          Derek N. Cunningham, OD, FAAO*
          Thomas M. Harvey, MD*
          D. Brian Kim, MD
          Laurie Oliver, COE
          Parag Parekh, MD*
          Corinne Z. Wohl, MHSA, COE
This joint symposium will feature a panel comprising physicians and administrators with subject matter geared to both audiences. Presentations will focus on deciding if and when a practice should consider adding ODs. What factors need to be weighed? How does a practice go about adding an OD? What are the expectations of ODs in a practice? What other options exist to generate nonsurgical practice revenue?

Course 27-304: Consistently Accurate IOL Power Calculations
Room 253C
COPE ID 37365 (1.5 Hours)
Warren E. Hill, MD*
Course will review current best practices for achieving optimal refractive outcomes for eyes undergoing phacoemulsification in both normal and unusual clinical settings.

*Denotes financial interest; see Financial Interest Index for full listing
**Course 27-305: Toxic Anterior Segment Syndrome Following Cataract Surgery**  
**COPE ID 40283 (1.5 Hours)**  
Nick Mamalis, MD*

Course will discuss the causes of sterile postoperative anterior segment inflammation (TASS) including irrigating solutions, medications, instrument sterilization problems, contaminants, and IOL related problems.

3:00–4:30 PM

**Course 27-405: Objective Imaging: Quantitative and Qualitative Keratoconus Diagnosis and Progression Criteria**  
**COPE ID 40285 (1.5 Hours)**  
Gregory J. Pamel, MD

Course will present methodology and pearls in evaluating corneal ectasia and keratoconus diagnosis and progression assessment based on a multitude of most contemporary imaging modalities (Scheimpflug, Placido topography, anterior segment optical coherence tomography, corneal and epithelial imaging, ocular stray-light quantifier, and novel point source reflection topography).

**Course 27-404: Intraocular Lens Calculation After Refractive Surgery**  
**COPE ID 37458 (1.5 Hours)**  
Wolfgang Haigis, MS, PhD*

Course will present clinical background and error sources in IOL calculation after refractive surgery. Influences of the surgical procedure, ablation types and zones, refractive correction and measurement instruments used will be explained. Currently available methods and formulas for the different conditions will be summarized and exemplified by clinical results.

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**MONDAY, APRIL 28**

8:00–9:30 AM

**Course 28-105: Lessons Learned From the Art of Practice Management**  
**COPE ID 40362 (1.5 Hours)**  
Joseph C. Noreika, MD, MBA

Course will address contemporaneous challenges confronting the ophthalmologist and specific remedies to better administer his/her practice to provide superior service to its patients and management of its staff. Recommendations will be proposed through didactic presentations and panel discussion. It is dedicated to the memory of Dr. Herve Byron.

**Course 28-106: Early Detection and Management of Keratoconus, Including Collagen Crosslinking**  
**COPE ID 40295 (1.5 Hours)**  
Ronald N. Gaster, MD, FACS*

Course will discuss the early detection of keratoconus and review management options for the various stages of keratoconus, including collagen crosslinking, intrastromal ring segments, femtosecond laser-enabled keratoplasty and DALK. Presentations will be done by lecture and accompanied by videos. Ample time for questions and discussion from the audience will be allowed.

**Course 28-104: Corneal Topographic Analysis and Anterior Segment Imaging: Pearls for Your Clinical Practice**  
**COPE ID 37505 (1.5 Hours)**  
Mitchell P. Weikert, MD*

Course will present a systematic approach to the interpretation of corneal topographies and anterior segment imaging studies using didactic instruction combined with numerous clinical examples. The course will highlight several imaging systems and technologies, including Placido-based topography, single- and dual-Scheimpflug imaging, and optical coherence tomography.

*Denotes financial interest; see Financial Interest Index for full listing
Integrated Ophthalmic-Managed Eyecare Delivery Track (IOMED)

10:00–11:30 AM

**Course 28-204: Contemporary Anterior Segment Imaging Technologies and Their Application to Clinical Practice**  
*COPE ID 40347 (1.5 Hours)*  
Paul J. Harton, Jr, MD, PharmD

Course will use PowerPoint presentations and video clips to demonstrate uses of optical coherence tomography and high-resolution ultrasound in femtosecond laser–assisted cataract surgery, phakic IOL sizing, IOL position and function, preoperative estimation of IOL lens position, and anterior chamber angle evaluation in glaucoma patients. Case presentations will be used to prompt interactive panel discussion with the audience.

1:00–2:30 PM

**Course 28-304: Controversies in Identifying Risk Factors for Post-LASIK Ectasia**  
*COPE ID 40280 (1.5 Hours)*  
William B. Trattler, MD*

Course will review the known risk factors for ectasia, the risk factor scoring systems, and corneal topography interpretation. The faculty will also focus on controversies that exist in the criteria used to determine whether a patient is at increased risk for ectasia.

3:00 PM–4:30 PM

**Symposium S-20: Data Security: HIPAA Compliance and the Meaningful Use Data Security Requirement**  
*COPE ID 40634 (1.5 Hours)*  
Sponsored by the ASCRS Health Information Technology Committee

**Moderator:** Candace S. Simerson, COE*  
President and Chief Operations Officer, Minnesota Eye Consultants, P.A.

**Panelists:**  
Daniel M. Bernick, Esq, MBA*  
Principal, The Health Care Group  
Mark E. Johnson*  
President, MedNetwoRx  
Janna Mullaney, COE, OCS*  
Chief Operations Officer, Katzen Eye Group

The 2014 HIT Symposium will focus on Data Security: HIPAA Compliance and the Meaningful Use Data Security Requirement. Many ophthalmic practices grapple daily with privacy and data security issues. This symposium will help answer some of the most common questions practices may have about compliance and suggest corrective actions to take once a security breach has occurred.

The symposium will provide a better understanding of the meaningful use attestation data security requirement, advice on using the security risk analysis process to identify potential security problems to mitigate risks before they become liabilities, and tips on handling data security with the continuing advancement of mobile devices in the workplace.

A panel will present case studies of frequently occurring security situations, and provide the audience the opportunity to weigh in on the case study scenarios. The panel will then address the possible issues present in each case study, offer opinions on whether a security breach has occurred, and provide prevention techniques and solutions for each situation.

**Course 28-405: Advanced Technologies for Managing Meibomian Gland Dysfunction**  
*COPE ID 40520 (1.5 Hours)*  
Marguerite B. McDonald, MD*

Course will explore new approaches, including the use of interferometry, gland expression, and a thermal pulsation procedure, to achieve optimal patient outcomes. Physicians lack adequate tools to diagnose and treat meibomian gland dysfunction. Instructor will include a systematic diagnostic process and compare clinical trial to in-practice results.

*Denotes financial interest; see Financial Interest Index for full listing
1:00–2:00 PM

Medicare Reimbursement Challenges  Room 103
Ann Rose
Course will examine common coding problems encountered in ophthalmology practices. Information will also be provided about the new CMS-1500 claim form, 2014 LCDs, and tips for developing a simple compliance plan.

Should I Have an Optical Dispensary?  Room 107A
Carolyn Salvato, ABO
Course will examine the feasibility of adding optical services to your practice. Topics of discussion include patient volume requirements, space and internal placement, local competition, and external referral relationships.

2:15–3:15 PM

Protocol of Accounts Receivable Management  Room 107C
Michael Brown, CHBC
Course will breakdown where your A/R buckets should be. We give you advice on how to collect the money due your practice.

Optimizing Administrator Performance  Room 102B
John B. Pinto, Craig N. Piso, PhD, and Corinne Z. Wohl, MHSA, COE
Course will present three perspectives on executive performance, from a psychologist, an administrator and a consultant. Poor performance harms practice economics, patient care and management careers. Course will also feature an open dialog with the speakers to help attendees resolve focused executive leadership issues arising in their individual practices.

3:30–4:30 PM

Ophthalmology Practice Buy-Ins: From the Authors of the Book  Room 104A
Mark E. Kropiewnicki, JD, LLM, Daniel M. Bernick, JD, MBA
Course will explain how ophthalmology practice buy-ins work, the values involved and how those values are paid for. It will discuss the specific values involved, including goodwill, equipment, accounts receivable and other values. Course is intended for both associates who are buying in and existing practice owners.

8:00–9:00 AM

ICD-10 Implementation: Critical Steps  Room 103
Paul M. Larson, MBA, COMT
Course will provide attendees with a means to evaluate their current state of ICD-10 training and readiness. It will provide them with tools to implement ICD-10 in their practices before the October 1, 2014, deadline.

The Dark Side of EHRs—Medical Liability  Room 106
Gerald Meltzer, MD
Course will present some of the risks attendant to the use of an EHR including increased risk of indefensible medical malpractice claims, likelihood of medical errors, vulnerability to fraud claims and HIPPA issues. Actual medical malpractice cases will be used as examples.

9:15–10:15 AM

Selling Your Ophthalmology Practice When You’re Not Ready to Retire  Room 104A
Mark E. Kropiewnicki, JD, LLM, Daniel M. Bernick, JD, MBA
Course will cover the basic issues, concerns and problems encountered by every potential seller of an ophthalmology practice such as valuation, selling price, payment terms, legal structure and protections, and tax considerations. It will also describe and explain the possibility of continued practice arrangements after the sale.
2014 Medicare Update

Ann Rose

Course will address the Physician and ASC fee schedule changes for 2014, new and revised CPT code changes, and the issues included in the 2014 Office of Inspector General (OIG) Work Plan affecting ophthalmology practices.

Strategic Planning for Ophthalmology Practices

Peter Wasserman, MD, MBA

Course will discuss how to go about performing strategic planning, including SWOT and PEST analysis, and give examples for one or more types of ophthalmology practices. The format for the presentation will be a didactic lecture along with audience participation.

10:30–11:30 AM

Three Areas of Succession Planning for Senior Physicians

Michael Brown, CHBC, Mark E. Kropiewnicki, JD, LLM, Arthur De Gennaro

Course will be a panel presentation by 3 consultants focusing on 3 areas of succession planning, covering the management, legal, and optical sides of the practice.

Administration and Staff: The Great Communicators

Dianna E. Graves, COMT

The key to a successful working relationship with peers, staff and doctors is to have open lines of communication, as well as a strong understanding of the intricacies of their practice. What happens when your communication system is broken?

1:00–2:00 PM

Surviving an EHR Incentive Audit

Gerald Meltzer, MD

Course will teach attendees how to respond to an audit request from CMS should their EHR Incentive attestation be selected for review. Course will cover necessary documentation to have on file as well as noting the types of issues that can increase a practice’s chances for audit.

Strategic Planning—How Do I Make That Happen?

Steven R. Robinson, COE, FASOA

Course will provide the tools necessary to plan and execute a strategic planning session for the ophthalmic practice. Necessary forms and documentation will be included in the handout for the course. Completion of this course will leave the administrator with a basic working knowledge of strategic planning and its goals.

2:15–3:15 PM

Business Analytics: Operating Dashboards and Increasing Production Capacity

Daniel D. Chambers, MBA, COE, Susan Renee Thomas, COE, Jane T. Shuman, COT, COE, OCS

Course will demonstrate using business analytics by capturing data in real time, in dashboard format for faster decision making. Will examine data by patient, staff, and doctor to monitor patient flow and optimize critical resources like number of exam rooms needed, staffing needs, doctor utilization, patient wait times, and scheduling templates.

Financing Your Life—A Guide for Young Ophthalmologists

Donna W. Howell, JD, LLM

Course will look closely at the challenges young physicians face, and will address financial issues like debt, money management, risk tolerance, and diversified portfolio options. Creating a structure that addresses the key areas of debt, investments, and savings enables physicians to maximize their career path and secure their financial future.

Leading From Behind: Putting Your Team Ahead of Your Title

Savory Turman, COMT

Course will include topics of right versus effective leadership approach, difficult conversations, balance between cheerleader and coach, and how to be most impactful as a leader in your organization. Format for the presentation is classroom style with interaction through questions/comments encouraged.

3:30–4:30 PM

Financial Benchmarking in the Ophthalmology Practice

Robert Teale, BBA, COE

Course will provide attendees with practical information along with useful tools in facilitating data reporting so that they can evaluate the financial health of their practice while making sound business decisions.
Critical Provisions of Practice Agreements: Governance, Termination, Buy-Out

Mark E. Kropiewnicki, JD, LLM, Daniel M. Bernick, JD, MBA

Course will highlight and explain key terms that should be (but are not always) found in every practice’s agreements including those for separate real estate, ASC/laser surgery and optical shop entities. It reviews the most essential and fundamental provisions that should be regularly addressed (sometimes annually) to avoid business/legal disputes.

EHR Compliance Issues You Didn’t Know You Had

David E. Silverstone, MD, Kevin J. Corcoran, COE, CPC

Course will explore how EHRs provide features that make it easy to improve the quality of medical records. Common information integrity problems that need to be avoided will be discussed. The impact on your compliance program could be a surprise. Case studies are presented to illustrate practice management issues.

MONDAY, APRIL 28

8:00–9:00 AM

Employment Interviewing and Hiring Guidelines

Sharon M. Brown, COT, COE

Course will provide attendees with tools and methods to help them prepare to interview and hire the best candidates available. You will be given checklists and discussion guides for asking the right questions to get relevant answers while recognizing legal pitfalls and how to avoid them.

Cool Tools: Big-Time Impact with Small-Scale Budgets

Kay Coulson, MBA

New and improved for 2014, this edition of cool tools will provide the newest and best free or low-cost online applications, services and techniques to make your marketing shine. We’ll cover design, marketing communication, education and training, and demonstrate how we’ve used these tools to help practices grow.

9:15–10:15 AM

Adding an OD to Your Dispensing Ophthalmology Practice

Arthur De Gennaro

Course will explore the rewards and potential pitfalls involved in adding an optometrist to a dispensing ophthalmology practice. Topics covered will include recruiting, managing, supervising and compensating an employed OD. Emphasis will be on optimizing both MD and OD productivity and increasing overall practice revenues.

10:30–11:30 AM

Can You Afford A Femtosecond Laser?

Stephen C. Sheppard, CPA, COE, Kevin J. Corcoran, COE, CPC

Course will enable attendees to create a budget for a femtosecond laser and identify potential sources of revenue and expense to make the capital budgeting decision, Can we afford this laser? Additionally, attendees will learn to identify alternative strategies should they decide not to purchase a femtosecond laser.

How to Safeguard Your Practice from Employee Theft

Jill B. Maher, MA, COE, Linda Georgian, COE

Course will enlighten the audience as to how common employee theft has become in medical practices, resulting in billions of dollars lost annually. This session explores the impact of employee theft, focusing on the greatest areas of vulnerability and how to mitigate risk. We will explore how and why honest employees steal.

1:00–2:00 PM

Using the New On-Line Pinto/ASOA Practice Viability Index

John B. Pinto

Course will teach the use of a new ASOA tool, the Practice Viability Index, to measure practice resiliency. After a review of the new PVI tool, and a discussion of practical factors that can elevate your practice’s odds for survival, the floor will be opened for audience discussion and questions.

ICD-10—What You Should Be Doing Now

Ann Rose

Course will provide information on how to make the transition to ICD-10 a smooth one including recommendations for action items to keep you on track. Several case studies will be discussed to show how ICD-10 coding differs from ICD-9.
2:15–3:15 PM

**The Comprehensive Course on Physician Hiring (Part 1)**

*Room 107C*

Richard C Koval, MPA, CMPE

Course will provide critical information to practices planning to add a new ophthalmologist and addresses feasibility assessment, the recruitment process, selecting the best candidate, closing the deal, and arranging a smooth transition. (Part 2 of this course will address typical contract provisions including compensation structures and potential co-ownership).

**The Holy Grail of Leadership for Physicians and Administrators**

*Room 102B*

Craig N. Piso, PhD, John B. Pinto, Corinne Z. Wohl, MHSA, COE

Course will describe a unique, complimentary model of effective leadership between the Managing Partner and Practice Administrator... the “Leadership Dyad”... and how to drive optimal staff performance through their synergy. Participants will learn the value of developing personal and shared power as the keys to creating staff morale/accountability.

3:30–4:30 PM

**A Practical Guide for Creating Meaningful Practice Budgets**

*Room 105*

Andrew Maller, MBA

Course will provide a practical and simple approach for implementing a practice budget. Specific methods will be introduced related to examining historical and current results, assessing future changes in the practice, forecasting future results, and integrating the results with financial reporting efforts.

**Great Expectations—Will This Really Work?**

*Room 102B*

Steven R. Robinson, COE, FASOA

Course will feature the types of expectations we should have for our personnel and how the administrator should go about turning expectations into reality. Are fundamental changes necessary in the practice and how should the administrator go about implementation?

**Reimbursement Compliance Issues: Getting It Right**

*Room 106*

Alan E. Reider, MPH, JD, Donna M. McCune, CCS-P, COE, CPMA

Course will present a series of case studies examining compliance issues focused on reimbursement and the potential risk related to those issues. An interactive session designed to assist administrators with the challenge of staying current with changing reimbursement rules and regulations and your obligation when you identify a problem.

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**TUESDAY, APRIL 29**

8:00–9:00 AM

**How Much Is My Practice Worth?**

*Room 104A*

Michael Brown, CHBC

Course will explain fair market value concept. Discuss approaches and compensation models. Discuss market trends.

**Collaborative Leadership: Getting the Most Out of the Team**

*Room 107A*

Alex Lopez

Course will teach you how to organize and lead your organization. Learn the fundamentals of getting your team on the right track and get things done. Learn technique to focus your time and things that matter most. Learn how to eliminate wasteful behaviors and keep your team focused.

9:15–10:15 AM

**How 15 Practices Converted 77% of Elective Surgery Consultations**

*Room 104A*

Brandi Musgrave

Course will educate how to perfect the consult flow to increase conversions and create a positive patient experience by differentiating your practice through the eyes of a patient. The format will be an interactive slideshow presentation.

10:30–11:30 am

**Preventing Practice Brain Drain with Retirement of Ophthalmologists and Employees**

*Room 107C*

Joseph Casper, MBA, COE, Gavin Barton, Ed.D

Course will educate practice managers and partner ophthalmologists in techniques to extract valuable clinical, practice and professional knowledge prior to ophthalmologists or key employees retiring.

**Seven Habits of Highly Successful Elective Practices**

*Room 105*

Cuinn Merrigan

Course will discuss specific approaches that elective surgery practices should take to improve patient experiences, manage internal personnel, utilize internal marketing, create tools for patient conversions, and promote online referrals.
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Prepare for ICD-10 with hands-on training, conducted by the Corcoran Consulting Group, that includes a handbook, flash drive, and CD-ROM.

- Discover implementation strategies for the new data standards, layout, and structure.
- Avoid problems from failure to meet the transition deadlines.
- Identify proper searching methods and documentation for efficient coding and reimbursement.

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**IMPORTANT SAFETY INFORMATION**

**CAUTION:** Federal (USA) law restricts this device to sale by, or on the order of, a physician. As part of a properly maintained surgical environment, it is recommended that a backup IOL Injector be made available in the event the AutoSert® IOL Injector Handpiece does not perform as expected.

**INDICATION:** The CENTURION® Vision System is indicated for emulsification, separation, irrigation, and aspiration of cataracts, residual cortical material and lens epithelial cells, vitreous aspiration and cutting associated with anterior vitrectomy, bipolar coagulation, and intraocular lens injection. The AutoSert® IOL Injector Handpiece is intended to deliver qualified AcrySof® intraocular lenses into the eye following cataract removal. The AutoSert® IOL Injector Handpiece achieves the functionality of injection of intraocular lenses. The AutoSert® IOL Injector Handpiece is indicated for use with the AcrySof® lenses SN60WF, SN60AD1, SN6AT3 through SN6AT9, as well as approved AcrySof® lenses that are specifically indicated for use with this inserter, as indicated in the approved labeling of those lenses.

**WARNINGS:** Appropriate use of CENTURION® Vision System parameters and accessories is important for successful procedures. Use of low vacuum limits, low flow rates, low bottle heights, high power settings, extended power usage, power usage during occlusion conditions (beeping tones), failure to sufficiently aspirate viscoelastic prior to using power, excessively tight incisions, and combinations of the above actions may result in significant temperature increases at incision site and inside the eye, and lead to severe thermal eye tissue damage. Good clinical practice dictates the testing for adequate irrigation and aspiration flow prior to entering the eye. Ensure that tubings are not occluded or pinched during any phase of operation. The consumables used in conjunction with ALCON® instrument products constitute a complete surgical system. Use of consumables and handpieces other than those manufactured by Alcon may affect system performance and create potential hazards.

**AEs/COMPLICATIONS:** Inadvertent actuation of Prime or Tune while a handpiece is in the eye can create a hazardous condition that may result in patient injury. During any ultrasonic procedure, metal particles may result from inadvertent touching of the ultrasonic tip with a second instrument. Another potential source of metal particles resulting from any ultrasonic handpiece may be the result of ultrasonic energy causing micro abrasion of the ultrasonic tip. **ATTENTION:** Refer to the Directions for Use and Operator’s Manual for a complete listing of indications, warnings, cautions and notes.
All ASOA Congress practice management courses and events will be held at the Boston Convention and Exhibition Center (BCEC).

Enjoy a comprehensive educational program, networking, skills enhancement, learning about new equipment, technology, and techniques—all of these activities are at the heart of ASOA’s Congress on Ophthalmic Practice Management.

The American Society of Ophthalmic Administrators is the premier organization dedicated to educating ophthalmic practice administrators. This year, administrators and staff will be able to choose from more than 150 hours of presentations and educational courses in an array of topics essential to practice management. These topics include coding, reimbursement, human resources, information technology, marketing, and many other strategies for successful practice management. The program lists the courses by day and time so attendees can see at a glance all the courses available at a given time. This design also provides practice leaders with an effective way to educate staff on topics that directly affect their work.

ASOA Program: Joint Registration

The 2014 meeting offers a joint registration category for those interested in attending both the ASOA and Technicians & Nurses programs. Crossover between the ASOA Congress and Technicians & Nurses program will be permitted to those registered in the joint registration category only. Crossover is now even easier because the programs are on the same schedule. Those registered for either the ASOA Congress or Technicians & Nurses program only will not be allowed to go between the two programs. Registrants of both ASCRS and ASOA programs are welcome to attend both Symposium and Congress programs.

Handouts

Course handouts for the ASOA Congress will be provided via the ASOA web site (www.asoa.org) beginning in April 2014. To properly plan and prepare, please print or download the handouts for the sessions you will attend from the web site in advance. Printing of handouts will NOT be available on-site.

Is Your Administrator Certified?

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The COE handbook, sample exam, and additional study resources are available online.

Leaders in Managing the Business of Ophthalmology
### ASOA Program at a Glance

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Roundtables are open brainstorming sessions on a variety of topics.

ICD-10 — Ann Rose, Patricia Kennedy, COMT, COE*

HR Compliance — Organizational Management —
Steven R. Robinson, COE, FASOA*

ACO’s — Medical shared savings program — Nancy McCann

Regulatory Compliance (HIPPA) — Audit response —
John S. Bell, MBA, COE

Meaningful Use, EHR, Cyber security — Ashley McGlone

Benchmarking and productivity — Morgan Taylor, III, CPE, COE

Declining Reimbursements —
Donna M. McCune, CCS-P, COE, CPMA*

Medicare Enrollment Issues – credentialing —
Linda Georgian, COE*

New Technologies/Marketing – website, videographer —
Paul Stubenbordt*

Making the Most of Networking — John Riordan

Additional roundtables will be held in the Networking Lounge each hour it is open. Check the online program for topics and times.

CONSULTANTS ON CALL

BCEC Room 104 BC

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Schedule as of March 12, 2014.

TOPIC LEGEND

A = Architecture  ASC = Ambulatory Surgery Center  C = Coding  L = Legal  O = Optical  P = Placement  PM = Practice Management

*Denotes financial interest; see Financial Interest Index for full listing
ASOA Workshops
Separate registration and fee required.

COE Review Course
Room 108

Date: Friday, April 25–Saturday, April 26
Program Chair: Daniel D. Chambers, MBA, COE*

Part I: Friday, April 25 7:30 AM–5:00 PM
Programming will include business operations, Medicare billing, system concepts, legal, regulatory compliance, labor law, risk management, finance, and accounting.
Presenters
Bruce Maller,* Alan E. Reider, MPH, JD,* Allison Shuren, MSN, JD,* E. Q. Skip Fahel, FASOA, Steven R. Robinson, COE, FASOA,* Matt Keiser, JD, Patricia Kennedy, COMT, COE*
Credits: 8.5 COE (Category A)

Part II: Saturday, April 26 1:00 PM–6:00 PM
Programming will include basic ophthalmic knowledge, chart audits and compliance, marketing, human resources, information technology, and electronic health records.
Presenters: Derek A. Preece,* Maureen Waddle, MBA,* Laurie K. Brown, COMT, COE,* Candace S. Simerson, CMPE, COE,* Sandra L. Boles, COE, Mary Pat Johnson, COMT, COE*
Credits: 5 COE (Category A)

FRIDAY, APRIL 25

ICD-10 Implementation Training Rooms 102AB, 107ABC
Time: 7:30 AM–4:30 PM (Lunch provided)
Conducted by the Corcoran Consulting Group, this workshop is a hands-on, interactive course designed to prepare you for ICD-10 and features at least 1 instructor per 30 participants. Registration includes course handouts, a 2014 ICD-10-CM handbook and electronic reference files on flash drive and CD. Do you have a plan for ICD-10? Attend this workshop and be prepared. This is a computer based course, so bring your computer with you.
Credits: 8 AAPC, COPE, JCAHPO, COE (Category A), and CME
This activity has been approved for AMA PRA Category 1 credits.

Maximizing Leadership Skills:
Relationship-Building With Physicians Room 104A
Time: 7:30–11:30 AM
Join us for a half day to recharge your personal leadership skills, with a focus on addressing the physician/administrator relationship and its challenges. Discover your personal leadership style and find out how that impacts your effectiveness as a leader. Class will be led by ASOA Presidents Liz Parrott and Sondra Hoffman, along with professional facilitator John Riordan of Cindy Zook & Associates. Expect a morning of interactive exercises, case studies, and sharing of insights and best practices. Take time for yourself by learning to build stronger relationships with your physicians and become a better leader.
Presenters: Liz P. Parrott, COE, Sondra Hoffman, COE, CPC, CMPE, John P. Riordan
Credits: 4 COE (Category A)

Pinto Practice Coaching Room 105
Time: 7:30–11:30 AM
Like a sports team, every eyecare practice is a composite of always-challenging professional players. Every superstar athlete—and every surgeon—needs a committed coach. Whether you’re an administrator or the managing partner, you can become a more skilled coach for the doctors and other demanding players on your practice team. Earn greater respect of staff and physicians, measure practice performance, develop formal goals for each provider, and define your own personal coaching style.
Presenter: John B. Pinto*
Credits: 4 COE (Category A)

Practice Management Boot Camp:
What You Must Know to Succeed Room 106
Time: 7:30 AM–4:30 PM
Program Chairs: Steven R. Robinson, COE, FASOA,* Vonda Syler, COE
You’ve just become a new ophthalmic practice manager. Now what? This course will teach you the basics of ophthalmic practice management in eight core areas.
Presenters: Steven R. Robinson, COE, FASOA,* Morgan L. Taylor III, CPA, COE, Donna M. McCune, CCS-P, COE, CPMA,* Larry R. Brooks, AIA,* Paul M. Stubenbordt*
Credits: 8 COE (Category A)

*Denotes financial interest; see Financial Interest Index for full listing
Everyday Use of Excel—Beginner  
**Room 103**

**Time:** 7:30–11:30 AM

This half day course will expose the participant to the practical everyday use and application of Microsoft Excel. Basic applications such as moving around worksheets, entering labels, basic formulas, copying, erasing, moving cell data, formatting numerals, borders, shading, and printing worksheets will be covered. Participants should have a basic understanding of Microsoft Excel and should bring their own laptop. The class will use Microsoft Excel 2010.

*Presenter: Robb Linafelter, MHA, COE*

*Credits: 4 COE (Category A)*

Everyday Use of Excel—Advanced  
**Room 103**

**Time:** 12:30–4:30 PM

This half day course will expose the participant to practical everyday use and application of Microsoft Excel. The session will cover more advanced topics such as advanced formulas, working with multiple worksheets, graphing, pivot tables and filtering. Participants should have a basic understanding of Microsoft Excel and should bring their own laptop. The class will use Microsoft Excel 2010.

*Presenter: Robb Linafelter, MHA, COE*

*Credits: 4 COE (Category A)*

Lean Six Sigma for Your Practice  
**Room 104A**

**Time:** 12:30–4:30 PM

This workshop will include lecture content on the basic concepts of Lean Six Sigma as well as instruction in the use of practical tools of implementation. Attendees will gain an understanding of Lean Six Sigma principles and the methods for improving efficiency, quality, and cost.

*Presenter: Dennis McCafferty, MBA, COE*

*Credits: 4 COE (Category A)*

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**TUESDAY, APRIL 29**

Dale Carnegie Leadership  
**Room 102AB**

**Time:** 8:00 AM–12:00 PM

Learn to strengthen interpersonal relationships, manage stress and handle fast-changing workplace conditions. Learn to become a persuasive communicator, problem-solver and focused leader. And develop a take-charge attitude initiated with confidence and enthusiasm.

*Presenter: Clark Merrill*

*Credits: 4 COE (Category A)*

Certified Ophthalmic Executive (COE) Exam  
**Room 108**

**Time:** 8:30 AM–12:00 PM

Pre-registration required. No on-site registration.

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*Denotes financial interest; see Financial Interest Index for full listing*
SUNDAY, APRIL 26

8:30–10:30 AM

ASOA Opening General Session

Presidents’ Addresses, Awards

Room 210ABC

ADVENTURES IN DARKNESS

Tom Sullivan
(Sponsored by Allergan)

11:00 AM–12:00 PM

Room 107B

Top 10 Roundtables and Making the Most of Networking

The OGS and Roundtables are not designated for COE or CME credit.

1:00–2:00 PM

AMBULATORY SURGERY CENTER (ASC)

Anatomy of an Infection Control Investigation

Regina Boore, RN, BSN, MS CASC*

Credits: 1 COE (Category A), 1 CME, 1 CA BRN

Room 107B

Course will present a case study of an ASC infection control investigation for cataract surgery post op infection.

BUSINESS MANAGEMENT

Acquiring Ophthalmic Practices:
Strategic Investment, Profit Opportunity

Daniel M. Bernick, JD, MBA,* Mark E. Kropiewnicki, JD, LLM*

Credits: 1 COE (Category A), 1 CME

Room 104A

Course will be a nuts-and-bolts guide for acquiring an ophthalmology practice. What are the legal, tax, and valuation issues involved? The target audience includes group practices seeking to acquire a competitor, as well as associate physicians seeking to establish their first practice.

LEADERSHIP AND STRATEGIC MANAGEMENT

Succession Planning for Practice Administrators

Elizabeth Holloway, MA, PHR*, Maureen L. Waddle, MBA*

Credits: 1 COE (Category A), 1 CME

Room 102B

Course will focus on the changing landscape of ophthalmic leadership, as long-term, successful practice administrators prepare for retirement. Presentation will identify traits of successful ophthalmic leaders, will demonstrate plan of cultivating leadership and finding a successor, and will include case studies of successful and unsuccessful leadership transitions.

MARKETING & BUSINESS DEVELOPMENT

Is a Start Up, Solo Practice Possible in 2014?

Ravi R. Patel, MD, Ajit Nemi, MD, MBA, Edwin S. Chen, MD

Credits: 1 COE (Category A), 1 CME

Room 102A

Course will detail the challenges faced by physicians wishing to open a solo practice and how these challenges can be overcome. Presenters have opened solo practices in highly competitive markets and will share their experiences from strategy to planning, financing, building, credentialing, opening, and growing a practice built from scratch.

CODING & BILLING

Medicare Reimbursement Challenges

Ann Rose*

Credits: 1 COE (Category A), 1 CME, 1 AAPC

Room 103

Course will examine common coding problems encountered in ophthalmology practices. Information will also be provided about the new CMS-1500 claim form, 2014 LCDs, and tips for developing a simple compliance plan.

EHR & INFORMATION TECHNOLOGY

Electronic Health Records:
Documentation and Coding Issues

Paul M. Larson, MBA, COMT*

Credits: 1 COE (Category A), 1 CME

Room 106

Course will provide attendees with an introduction to the problems inherent in electronic health records. It will present potential problem areas from the regulatory and documentation areas as well as help attendees develop best practices from a compliance and documentation perspective.

Know Your Market Area

Mark Johnson, ABOC, NCLEC*

Credits: 1 COE (Category A), 1 CME

Room 107C

Course will talk about how to do a ZIP code analysis, competitor analysis, and vision plan analysis.
2:15–3:15 PM

AMBULATORY SURGERY CENTER (ASC)

Optimize Medication Management

John Karwoski, RPh, MBA
Credits: 1 COE (Category A), 1 CME, 1 CA BRN
Room 107B
Course will examine medication management including medication storage, regulatory issues, drug cost control, and quality assurance. How to find a pharmacist and how to maximize their services will also be covered.

BUSINESS MANAGEMENT

Protocol of Accounts Receivable Management

Michael Brown, CHBC*
Credits: 1 COE (Category A), 1 CME
Room 107C
Course will breakdown where your A/R buckets should be and offer advice on how to collect the money due your practice.

Hiring Seasoned Doctors: Paying for Experience, Avoiding Mistakes

Daniel M. Bernick, JD, MBA, *Mark E. Kropiewnicki, JD, LLM*
Credits: 1 COE (Category A), 1 CME
Room 104A
Course will explore the pros and cons of hiring physicians who have had at least one full time job in private practice. Should these hires be treated as employees or contractors? What should you pay them? What should the contract say about non-competes, non-solicitation, and future partnership?

CODING & BILLING

Internal Chart Auditing: Part I

Mary Pat Johnson, COMT, COE, CPC, CPMA*
Credits: 1 COE (Category A), 1 CME, 1 AAPC
Room 103
Course will introduce attendees to different types of internal audits, the steps within an audit, how to prepare for a self-audit, and select a sample.

EHR & INFORMATION TECHNOLOGY

Achieving IT Nirvana

Kevin A. Cleveland, *Chanda M. Williams, MS*
Credits: 1 COE (Category A), 1 CME
Room 106
Course will discuss the current IT challenges practices face and the IT solutions available that allow practices to focus on patient care and achieving business objectives. Topics include security and compliance, data protection and disaster recovery, securing the desktop, cloud solutions, managed IT versus in-house, and benefits of data mining.

LEADERSHIP AND STRATEGIC MANAGEMENT

Optimizing Administrator Performance

John B. Pinto, *Craig N. Piso, PhD,*
Corinne Z. Wohl, MHSA, COE
Credits: 1 COE (Category A), 1 CME
Room 102B
Upon completion of this course attendees will recognize attributes of effective administrators and gain a sense of where they personally stand in their career development.

MARKETING & BUSINESS DEVELOPMENT

Positioning—Market Leaders Have it, Discover Yours

Megan Mestas*
Credits: 1 COE (Category A), 1 CME
Room 105
Course will explain why your marketing messaging may be failing to achieve your goals. If you haven’t discovered your practice’s positioning in the market, you aren’t standing out. Learn how to create and relay your unique identity to your consumers.

Social Media Marketing Made Easy With Minimal Administrator Involvement

Michael W. Malley
Credits: 1 COE (Category A), 1 CME
Room 102A
Course will give attendees an overview of how to effectively use Facebook, YouTube, blogs and other social media outlets to boost their online presence and enhance the Search Engine Optimization (SEO) of their website.

OPTICAL SHOP

The HR Optical Dilemma: Managing the Staff

Suzi Martin, PhD, Nancy C. White, MA, COE
Credits: 1 COE (Category A), 1 CME
Room 107A
Course will incorporate lecture, enhanced by PowerPoint, interactive debate, questions and answers and brainstorming on topics related to decreasing staff turnover, increasing profitability and improving morale, all making management of the Optical Division of the practice run more smoothly.
3:30–4:30 PM

AMBULATORY SURGERY CENTER (ASC)

Femtosecond Laser Surgery: Changes in the Clinic and ASC
Amy V. Jost, COT, CCRC*
Credits: 1 COE (Category A), 1 CME
Room 107B
Course will identify ways to improve patient satisfaction and surgery efficiency, review uses for the femtosecond laser, and compare the four laser systems currently available. Discussion of how femtosecond laser surgery impacts scheduling, staffing and surgery workflow.

BUSINESS MANAGEMENT

Ophthalmology Practice Buy-Ins: From the Authors of the Book
Mark E. Kropiewnicki, JD, LLM, * Daniel M. Bernick, JD, MBA*
Credits: 1 COE (Category A), 1 CME
Room 104A
Course will explain how ophthalmology practice buy-ins work, the values involved and how those values are paid for. It will discuss the specific values involved, including goodwill, equipment, accounts receivable and other values. Course is intended for both associates who are buying in and existing practice owners.

Assessing and Selecting Managed Vision
Mark Johnson, ABOC, NCLEC*
Credits: 1 COE (Category A), 1 CME
Room 107C
Course will give an overview of managed vision care stats, discuss how to analyze the practice market area along with the managed vision care plans in the area, and discuss negotiation options with managed vision care plans.

CODING & BILLING

Internal Chart Auditing: Part II
Mary Pat Johnson, COMT, COE, CPC, CPMA*
Credits: 1 COE (Category A), 1 CME, 1 AAPC
Room 103
Course will guide attendees through the audit process and illustrate how charts are assessed, and results tabulated.

EHR & INFORMATION TECHNOLOGY

Digital Tools for Patient Education and Communication
Richard M. Awdeh, MD, * William B. Trattler, MD,*
Eric D. Donnenfeld, MD*
Credits: 1 COE (Category A), 1 CME
Room 106
This course will cover the rise in the mobile Health (mHealth) market in the U.S., current healthcare challenges, regulations such as the HITECH Act and available solutions to help an eye care practice offer more patient-centered care.

LEADERSHIP AND STRATEGIC MANAGEMENT

How New Tax Laws Will Affect Your Practice
Donna W. Howell, JD, LLM
Credits: 1 COE (Category A), 1 CME
Room 102B
Course will show how to navigate through the tax code and maneuver through the legal and regulatory environments, enabling us to capitalize on nuances in the laws of wealth enhancement, estate planning, asset protection and charitable giving.

MARKETING & BUSINESS DEVELOPMENT

Secrets of Highly Successful Refractive Cataract Surgery Practices
John A. Hovanesian, MD, * David R. Hardten, MD,*
Kevin J. Corcoran, COE, CPC*
Credits: 1 COE (Category A), 1 CME
Room 102A
Course will review marketing, patient selection & education, staff organization, biometyllens selection and other pearls for success with refractive cataract surgery to include toric IOLs, limbal relaxing incisions, and aspheric monovision. This course is given by a team of experienced surgeons and practice management experts.

Adopting and Implementing Laser Cataract Surgery into Practice
Robert S. Stutman, MBA, Scott E. LaBorwit, MD
Credits: 1 COE (Category A), 1 CME
Room 105
Course will examine the process of adopting and implementing laser cataract surgery into the ophthalmic practice. The course will explore educating patients about non-covered, premium services available at the time of cataract surgery. The presentation will include slides and video presentation, with interactive discussion encouraged.
OPTICAL SHOP

Taking Your Dispensary to the Next Level
Arthur De Gennaro*
Credits: 1 COE (Category A), 1 CME, 1 ABO
Room 107A
Course will discuss practical strategies and techniques that will help an existing optical dispensary to perform above the national average in the major areas of dispensary performance. Topics to be discussed include; benchmarks, capture rate, scripting, average unit sale, retail sales technique, cost of goods sold, and payroll.

SUNDAY, APRIL 27

8:00–9:00 AM

ADVANCED ADMINISTRATOR

Teamwork Leads to Getting Claims Paid
Linda Georgian, COE,*
Mary Pat Johnson, COMT, COE, CPC, CPMA*
Credits: 1 COE (Category A), 1 CME
Room 107C
Course will introduce a variety of roadblocks to clean claims and provide recommendations on working with the clinical staff to help insure the information needed for the claim is accurately documented in the chart and conveyed to the billing staff.

AMBULATORY SURGERY CENTER (ASC)

Financial Reporting and Management in the Successful Ophthalmic ASC
Stephen C. Sheppard, CPA, COE, * Erin C. Malloy *
Credits: 1 COE (Category A), 1 CME, 1 CA BRN
Room 107B
Course will enable attendees to understand the relationship between financial reporting and financial management of an ophthalmic ASC and the importance of these two factors in maintaining the profitability and long-term stability of the enterprise.

BUSINESS MANAGEMENT

Not Full Time: “Mommy Daddy” Track; Itinerant Specialists; Semi-Retired
Daniel M. Bernick, JD, MBA, * Mark E. Kropiwnicki, JD, LLM*
Credits: 1 COE (Category A), 1 CME
Room 104A
Course will provide a legal and business guide to hiring part-time doctors. What kind of compensation should you pay? Should they be employees or contractors? What about non-compete and non-solicitation clauses? Future partnership? What other issues should be considered?

CODING & BILLING

ICD-10 Implementation: Critical Steps
Paul M. Larson, MBA, COMT*
Credits: 1 COE (Category A), 1 CME
Room 103
Course will provide attendees with a means to evaluate their current state of ICD-10 training and readiness. It will provide them with tools to implement ICD-10 in their practices before the October 1, 2014 deadline.

EHR & INFORMATION TECHNOLOGY

The Dark Side of EHRs - Medical Liability
Gerald Meltzer, MD*
Credits: 1 COE (Category A), 1 CME
Room 106
Course will present some of the risks attendant to the use of an EHR including increased risk of indefensible medical malpractice claims, likelihood of medical errors, vulnerability to fraud claims and HIPAA issues. Actual medical malpractice cases will be used as examples.

LEADERSHIP AND STRATEGIC MANAGEMENT

Learn to Evaluate Productivity and Efficiency
Kurtis Wankier
Credits: 1 COE (Category A), 1 CME
Room 102B
Course will provide attendees with a new tool set for evaluating practice productivity and efficiency. Attendees will learn new strategies to evaluate practice performance and customer service delivery.

MARKETING & BUSINESS DEVELOPMENT

Best Practice Approach for the Refractive Coordinator
Stacey Koch*
Credits: 1 COE (Category A), 1 CME
Room 105
Course will give the attendee the ability to convey doctors’ choices and learn procedural approaches for patient education for elective aspects of cataract surgery. A PowerPoint presentation along with lecture on delivery of fees for elective aspects of cataract surgery beyond health insurance will be explored comprehensively.

The Art of Conversion to Premium Services
Joan Wahlman,* Pat D. Kane, RN
Credits: 1 COE (Category A), 1 CME
Room 102A
Course will demonstrate how to develop and implement processes to improve lead conversion to premium procedures. Attendees will learn how to define the tangibles and intangibles that create a positive impression and exceed patient expectations. Pearls for setting financial goals, tracking tools and motivating staff will be presented.
Customer Service: The Rise or Fall of your Practice
Megan Mestas*
Credits: 1 COE (Category A), 1 CME
Room 108
If you’ve been skeptical about the importance of great customer service, this course will prove once and for all how vital it is to the success of any business, especially that of patient pay services. Learn how to uncover your staff’s weaknesses and how to turn your practice around.

OPTICAL SHOP
The Retail Sales Process and Dispensary Success
Arthur De Gennaro*
Credits: 1 COE (Category A), 1 CME, 1 ABO
Room 107A
Course will take a critical look at the 8 parts of an optical sales transaction and will discuss ways to improve each part. Topics to be discussed include; building trust, establishing value, conducting effective demonstrations, overcoming price objections and selling second pairs.

ADVANCED ADMINISTRATOR
Get Answers From Experienced Administrators—First Half
John S. Bell, MBA, COE, CMPE, Daniel D. Chambers, MBA, COE,* Kenneth E. Woodworth, COMT, COE, FASOA, Steven R. Robinson, COE, FASOA,* Candace S. Simerson, COE*
Credits: 1 COE (Category A), 1 CME
Room 107C
Course will allow participants to get answers to their questions and concerns from a panel of experienced administrators. The session will be moderated to insure that a variety of topics will be addressed and that all have a chance to be involved.

AMBULATORY SURGERY CENTER (ASC)
Is It Time to Sell Your ASC?
Bruce Maller*
Credits: 1 COE (Category A), 1 CME, 1 CA BRN
Room 107B
Course will provide you with factors to consider when you are deciding if now is the correct time to sell your ASC. Given the changing landscape of healthcare now may be the right time to sell, this course will provide you with information to help make that decision.

BUSINESS MANAGEMENT
Using Staffing Department Scorecards to Maximize Operational Efficiency
Andrew Maller, MBA, * Maureen L. Waddle, MBA*
Credits: 1 COE (Category A), 1 CME
Room 108
Course will introduce the topic of scorecards and dashboard reports as they relate to the ophthalmic practice. The presenters will highlight some simple, easy-to-track performance metrics and case studies that every department in the practice can use to identify operational strengths and weaknesses in order to increase operational efficiency.

Selling Your Practice When Not Ready to Retire
Mark E. Kropiewnicki, JD, LLM,* Daniel M. Bernick, JD, MBA*
Credits: 1 COE (Category A), 1 CME
Room 104A
This course will cover the basic issues, concerns and problems encountered by every potential seller of an ophthalmology practice such as valuation, selling price, payment terms, legal structure and protections, and tax considerations. It will also describe and explain the possibility of continued practice arrangements after the sale.

CODING & BILLING
2014 Medicare Update
Ann Rose*
Credits: 1 COE (Category A), 1 CME, 1 AAPC
Room 103
Course will address the Physician and ASC fee schedule changes for 2014, new and revised CPT code changes, and the issues included in the 2014 Office of Inspector General (OIG) Work Plan affecting ophthalmology practices.

LEADERSHIP AND STRATEGIC MANAGEMENT
Strategic Planning for Ophthalmology Practices
Peter Wasserman, MD, MBA*
Credits: 1 COE (Category A), 1 CME
Room 102B
Course will discuss how to go about performing strategic planning, including SWOT and PEST analyses, and give examples for one or more types of ophthalmology practices. The format for the presentation will be a didactic lecture along with audience participation.
MARKETING & BUSINESS DEVELOPMENT

Introducing New LASIK Technology into a Competitive Market
Michael W. Malley, Cory J. Pickett
Credits: 1 COE (Category A), 1 CME
Room 102A
Course will provide attendees the total marketing package of tools and creative strategy to successfully introduce new LASIK technology into a market. Attendees will learn how to successfully gain market share from their competitors through proper positioning.

Creating Technology Driven Marketing for Maximum Impact
Michael J. Dobkowski, MBA*
Credits: 1 COE (Category A), 1 CME
Room 105
This course will detail internal and external marketing best practices and agenda creation for administrators, marketing directors and physicians in order to develop a well-crafted marketing plan. Both the internal and external options will be disclosed and discussed so that attendees will get objective information on best steps forward.

OPTICAL SHOP

Designing a Functional and Profitable Optical Part 1
Dan Sloan,* Richard J. Winig*
Credits: 1 COE (Category A), 1 CME
Room 107A
Course will discuss 5 elements of a functional dispensary design with emphasis on patient flow, location, size, lighting, and visual merchandising resulting in a profitable dispensary.

10:30–11:30 AM

ADVANCED ADMINISTRATOR

Get Answers From Experienced Administrators—Second Half
John S. Bell, MBA, COE, CMPE, Daniel D. Chambers, MBA, COE,* Kenneth E. Woodworth, COMT, COE, FASOA, Steven R. Robinson, COE, FASOA,* Candace S. Simerson, COE*
Credits: 1 COE (Category A), 1 CME
Room 107C
Course will allow participants to get answers to their questions and concerns from a panel of experienced administrators. The session will be moderated to ensure that a variety of topics will be addressed and that all have a chance to be involved.

AMBULATORY SURGERY CENTER (ASC)

Reimbursement Challenges in an ASC
Nikki Hurley, RN, BSN, MBA, COE, Kevin J. Corcoran, COE, CPC*
Credits: 1 COE (Category A), 1 CME, 1 CA BRN
Room 107B
Course will describe: 1) typical challenges, 2) strategy for responding to denials, 3) making beneficiaries responsible for non-covered items and services, 4) avoiding reprehensible claims for reimbursement.

BUSINESS MANAGEMENT

Three Areas of Succession Planning for Senior Physicians
Mark E. Kropiewnicki, JD, LLM,* Arthur De Gennaro,* Michael Brown, CHBC*
Credits: 1 COE (Category A), 1 CME
Room 104A
Course will be a panel presentation by 3 consultants focusing on 3 areas of succession planning. Covers the management side, legal side and optical side.

The Art of Benchmarking for Ophthalmology Practice
Maureen L. Waddle, MBA*
Credits: 1 COE (Category A), 1 CME
Room 108
Course will use a case study to define common benchmarks, benchmarking formulas, and most importantly, how to use benchmarking information to improve practice performance.

CODING & BILLING

EMR From an Auditor’s Point of View
Patricia Kennedy, COMT, CPC, COE*
Credits: 1 COE (Category A), 1 CME, 1 AAPC
Room 103
This course will illustrate issues encountered during 3rd party audits that may impact the validity of the record & post payment review. EMRs have revolutionized how many practices document patient services. Their efficiency & consistency have advantages & disadvantages that may be unrealized by staff members working with it daily.

EHR & INFORMATION TECHNOLOGY

Meaningful Use Stage 2 and You
Gerald Meltzer, MD*
Credits: 1 COE (Category A), 1 CME
Room 106
Course will show attendees how they can fulfill the multiple new requirements for successful Stage 2 Meaningful Use implementation.
ASOA Program

Sunday, April 27

**HUMAN RESOURCES**

**Administration and Staff: The Great Communicators**
Dianna E. Graves, BS Ed, COMT
Credits: 1 COE (Category A), 1 CME

The key to a successful working relationship with peers, staff and doctors is to have open lines of communication, as well as a strong understanding of the intricacies of their practice. What happens when your communication “system” is broken?

**LEADERSHIP AND STRATEGIC MANAGEMENT**

**Insights into the Strategic Planning Process**
Scott Evans, MBA
Credits: 1 COE (Category A), 1 CME

Course will define the strategic planning process, explain the importance of strategic planning, cover the steps of creating a strategic plan, debunk commonly held myths of strategic planning, and cover case studies on strategy.

**MARKETING & BUSINESS DEVELOPMENT**

**Starting a Dry Eye Service Line**
Michael Trier, MBA
Credits: 1 COE (Category A), 1 CME

Course will provide attendees a case study in the startup of dry eye services. We will review the assessment of dry eye technology, including breakeven analysis. We will study a Startup Action Plan for a Dry Eye Service Line. We will discuss the experience of this start up.

**OPTICAL SHOP**

**Designing a Functional and Profitable Optical Part 2**
Dan Sloan, BS*
Credits: 1 COE (Category A), 1 CME

Course will discuss optical shop design.

**1:00–2:30 PM**

**S-10 Joint Symposium**

**The Integrated Eyecare Model: Should I or Shouldn’t I?**
**Room 204AB**

**Jointly Sponsored by ASOA and ASCRS**
Moderator: Sondra Hoffman, COE, CPC, CMPE
Panelists: Hayley Boiling, MBA, Derek N. Cunningham, OD, FAAO,* Thomas M. Harvey, MD,* D. Brian Kim, MD, Laurie Oliver, COE, Parag Parekh, MD,* Corinne Z. Wohl, MHSA, COE

This joint symposium will feature a panel comprised of physicians, administrators, and an OD, with subject matter geared to all audiences. Presentations will focus on what factors need to be examined when deciding if and when a practice should consider adding ODs.

**1:00–2:00 PM**

**ADVANCED ADMINISTRATOR**

**Utilization Analysis**
Dawn Apple, MBA, Kevin J. Corcoran, COE, CPC*
Credits: 1 COE (Category A), 1 CME

Course will describe how to analyze physician productivity data for office visits, diagnostic tests and surgery, and compare with Medicare utilization benchmarks using Excel spreadsheet.

**BUSINESS MANAGEMENT**

**Associate Employment Agreements: What’s Fair, Reasonable, and Competitive**
Mark E. Kropiewnicki, JD, LLM,* Daniel M. Bernick, JD, MBA*
Credits: 1 COE (Category A), 1 CME

Course will describe and explain the normal, customary compensation amounts, terms and provisions in an associate employment agreement. To be competitive, practices hiring a new associate need to know what is fair, reasonable, normal and competitive so that their employment agreement is well received by associate candidates.

**Guide to a Memorable Customer Service Experience**
Mark N. King
Credits: 1 COE (Category A), 1 CME

Course will be an interactive lecture with a PowerPoint presentation and discussion about implementing a memorable customer service plan. Participants will learn how to design a program, train and motivate staff members, evaluate the success of the program and bring customers back to their practice.
CODING & BILLING

The DNA of Health Care Regulations and Guidance
William T. Koch, COA, COE, CPC*
Credits: 1 COE (Category A), 1 CME, 1 AAPC
Room 103
Course will familiarize attendees with the DNA or building blocks of health care regulations and guidance. The interactive presentation will focus on where to locate payment policies, fee schedules, bundling edits, drug pricing, denial code lists, and other valuable resources that guide us through the maze of regulations and guidance.

EHR & INFORMATION TECHNOLOGY

Surviving an EHR Incentive Audit
Gerald Meltzer, MD*
Credits: 1 COE (Category A), 1 CME
Room 106
Course will teach attendees how to respond to an audit request from CMS should their EHR incentive attestation be selected for review. Course will cover necessary documentation to have on file as well as noting the types of issues that can increase a practice’s chances for audit.

HUMAN RESOURCES

Raise Patient’s Perceived Value of Premium Services
Michael W. Malley
Credits: 1 COE (Category A), 1 CME
Room 107B
Course will showcase specific iPad-based patient education programs to enlighten patients on today’s cataract options and increase perceived value of products like laser cataract surgery and premium IOLs.

LEADERSHIP AND STRATEGIC MANAGEMENT

Strategic Planning . . . How Do I Make That Happen?
Steven R. Robinson, COE, FASOA*
Credits: 1 COE (Category A), 1 CME
Room 102B
Course will provide the tools necessary to plan and execute a strategic planning session for the ophthalmic practice. Necessary forms and documentation will be included in the handout for the course. Completion of this course will leave the administrator with a basic working knowledge of strategic planning and its goals.

MARKETING & BUSINESS DEVELOPMENT

Increasing Your Practice Value through Dry Eye Management Expertise
Karen Bachman, COMT, CCRC, COE*
Credits: 1 COE (Category A), 1 CME
Room 105
This course will explore how practices can improve dry eye patient care using new tools for assessing and treating evaporative dry eye and meibomian gland dysfunction. Learn best practices for integrating new dry eye management approaches into your current patient flow.

Internet Marketing for Success in the Digital Age
Tamara Evans, MS*
Credits: 1 COE (Category A), 1 CME
Room 102A
Course will describe the five key components of successful internet marketing: development of an effective practice website; online visibility so surgeon/procedure information is easily found; external marketing to boost search engine rankings; conversion of website visitors to consultations; increased ROI. If objectives are not achieved, the internet marketing strategy fails.

OPTICAL SHOP

Increasing Your Practice Capture Rate
Carolyn Salvato, ABO*
Credits: 1 COE (Category A), 1 CME, 1 ABO
Room 107A
Course will discuss the role each practice employee plays in achieving a healthy optical capture percentage. Training all clinic staff to identify optical candidates and providing them the knowledge and tools to achieve a successful referral is essential in creating a productive and profitable optical business.

2:15–3:15 PM

ADVANCED ADMINISTRATOR

Business Analytics: Real-time Dashboards and Increasing Capacity
Daniel D. Chambers, MBA, COE,* Susan R. Thomas, COE, Jane T. Shuman, COT, COE, OCS*
Credits: 1 COE (Category A), 1 CME
Room 107C
Course will demonstrate using business analytics by capturing data in real time, in dashboard format for faster decision making. Will examine data by patient, staff, and doctor to monitor patient flow and optimize critical resources like number of exam rooms needed, staffing needs, doctor utilization, patient wait times, and scheduling templates.
BUSINESS MANAGEMENT

How We Survived Near Bankruptcy
Michelle Fleshner
Credits: 1 COE (Category A), 1 CME
Room 108
Course will describe how a thriving practice nearly suffered financial failure and the steps taken to revive it to a profitable, healthy practice.

Handling Ancillary Businesses: ASC, Optical, Real Estate, Etc.
Daniel M. Bernick, JD, MBA,* Mark E. Kropiewnicki, JD, LLM*
Credits: 1 COE (Category A), 1 CME
Room 104A
Course will address the legal and business issues involved with various ancillary businesses, such as ASC, optical, and real estate. Brief discussion of equipment and management services entities. Should these businesses be separately incorporated? Should non-physicians be part owners? How should each entity be valued?

CODING & BILLING

Modifiers—Getting It Right!
Donna M. McCune, CCS-P, COE, CPMA*
Credits: 1 COE (Category A), 1 CME, 1 AAPC
Room 103
Course will teach attendees to use modifiers properly on claims for reimbursement. This course uses case studies so attendees “get it right”.

EHR & INFORMATION TECHNOLOGY

EMR: The Good, the Bad, and the Ugly
Jonathan Lohr,* Kevin J. Corcoran, COE, CPC*
Credits: 1 COE (Category A), 1 CME
Room 106
Course will describe desirable and undesirable attributes of EMR related to: scope, interoperability, coding, and compliance. Criticism of EMR by regulators is addressed.

LEADERSHIP AND STRATEGIC MANAGEMENT

Leading From Behind: Putting Team Ahead of Title
Savory Turman, COMT
Credits: 1 COE (Category A), 1 CME
Room 107B
Course will include topics of right versus effective leadership approach, difficult conversations, balance between cheerleader and coach, and how to be most impactful as a leader in your organization. Format for the presentation is classroom style with interaction through questions/comments encouraged.

Financing Your Life—Guide for Young Ophthalmologists
Donna W. Howell, JD, LLM
Credits: 1 COE (Category A), 1 CME
Room 102B
Course will look closely at the challenges young physicians face, and will address financial issues like debt, money management, risk tolerance, and diversified portfolio options. Creating a structure that addresses the key areas of debt, investments, and savings enables physicians to maximize their career path and secure their financial future.

MARKETING & BUSINESS DEVELOPMENT

Adding New Service Line: Business Decision Making Process
Sherri L. Boston, MBA, COE, OCS*
Credits: 1 COE (Category A), 1 CME
Room 102A
Course will focus on the business decision making process to evaluate the feasibility of adding a new service line. The presentation will demonstrate this business decision making process. Attendees are welcome to share their experience with respect to success or challenges when implementing a new service line.

Integrated Marketing: Advanced Course in Online Marketing, Tracking
Kay Coulson, MBA*
Credits: 1 COE (Category A), 1 CME
Room 105
This course will help you understand where you need to be online, how to target generational audiences for LASIK and Lens, and how to monitor and improve staff and marketing effectiveness. This is an advanced course demonstrating the exact method to hold every link in the patient-acquisition chain accountable.

OPTICAL SHOP

Marketing Optical Services
James Dawes, MHA, CMPE, COE*
Credits: 1 COE (Category A), 1 CME, 1 ABO
Room 107A
Course will cover all aspects of marketing optical products including retail point of purchase, sales training and techniques, physician sales training, print, television, radio, on-line, social media, direct mail, word of mouth, and customer loyalty programs.
**AMBIENT SURGERY CENTER (ASC)**

**How to Develop a Successful OR Team**  
Maureen L. Waddle, MBA*  
Credits: 1 COE (Category A), 1 CME, 1 CA BRN  
Room 107B  
Course will provide you with tips that will help you to create a successful OR team. The course will discuss key factors to consider when you are assembling members of your OR team.

**BUSINESS MANAGEMENT**

**Financial Benchmarking in the Ophthalmology Practice**  
Robert Teale, BBA, COE*  
Credits: 1 COE (Category A), 1 CME  
Room 108  
Course will provide attendees with practical information along with useful tools in facilitating data reporting so that they can evaluate the financial health of their practice while making sound business decisions.

**Critical Provisions of Practice Agreements: Governance, Termination, Buy-Out**  
Mark E. Kropiewnicki, JD, LLM,* Daniel M. Bernick, JD, MBA*  
Credits: 1 COE (Category A), 1 CME  
Room 104A  
Course will highlight and explain key terms that should be found in every practice’s agreements including those for separate real estate, ASC/laser surgery and optical shop entities. It reviews the most essential and fundamental provisions that should be regularly addressed to avoid business/legal disputes.

**ASOA Legislative Update**  
Nancey McCann  
Credits: 1 COE (Category A), 1 CME  
Room 107C  
Course will review the latest activities and developments in the legislative and regulatory arenas.

**CODING & BILLING**

**Common Errors in Documentation and Coding**  
Corinne Z. Wohl, MHSA, COE, Donna M. McCune, CCS-P, COE, CPMA*  
Credits: 1 COE (Category A), 1 CME, 1 AAPC  
Room 103  
Course will describe the numerous documentation and coding errors that can be avoided by knowing which ones are common and developing a comprehensive plan to prevent them from occurring.

**EHR & INFORMATION TECHNOLOGY**

**EHR Compliance Issues You Didn’t Know You Had**  
David E. Silverstone, MD, Kevin J. Corcoran, COE, CPC*  
Credits: 1 COE (Category A), 1 CME  
Room 106  
Course will explore how EHRs provide features that make it easy to improve the quality of medical records. Common information integrity problems that need to be avoided will be discussed. The impact on your compliance program could be a surprise. Case studies are presented to illustrate practice management issues.

**LEADERSHIP AND STRATEGIC MANAGEMENT**

**Practical Aspects of Gearing Up for Retirement**  
Donna W. Howell, JD, LLM  
Credits: 1 COE (Category A), 1 CME  
Room 102B  
Course will explore what is needed to live comfortably through the retirement years. Once retired, how can the retired doctor create an income stream from their portfolio to ensure lifetime prosperity? In these days of increased market volatility and longevity, investing for retirement requires a total paradigm shift.

**MARKETING & BUSINESS DEVELOPMENT**

**Managing Astigmatism in your Cataract Practice**  
Karen Bachman, COMT, CCRC, COE,* Paul M. Larson, MBA, COMT*  
Credits: 1 COE (Category A), 1 CME  
Room 102A  
Course will offer tools for successful management of astigmatism in refractive cataract practice. These include pre-op evaluation needs to assure success and utilization of new technologies. How to upgrade patients to astigmatic services and best coding and billing practices for astigmatic services will also be discussed.
### LASIK Consultation Secrets—Selling Sizzle, Not Steak

*Wade Morrison*

Credits: 1 COE (Category A), 1 CME  
**Room 105**

Course will be an educational and entertaining video presentation on consumer buying psychology. Attendees will learn how other industries sell intangible services and how these skills can be applied to the LASIK consultation process.

### OPTICAL SHOP

#### Yes! Contact Lenses Can be Profitable

*Mary Walker, COE*

Credits: 1 COE (Category A), 1 CME  
**Room 107A**

Course will give an overview of buying strategies, inventory, patient presentation, competing with online retailers, and creating more compliant patients resulting in a more profitable contact lens department.

### MONDAY, APRIL 28

#### 8:00–9:00 AM

**AMBULATORY SURGERY CENTER (ASC)**

#### Anatomy of a CMS Review: The Facility

*Jeff Lehmann,* Jeffery S. Eckert, AIA*  
Credits: 1 COE (Category A), 1 CME, 1 CA BRN  
**Room 107B**

Course will explore the CMS review process and the freestanding ASC. Attendees will learn about regulatory requirements in effect, including a review of the new NFPA 2012 guidelines. Instructors will highlight topics that surveyors are citing in their facility walkthroughs, and will help attendees prepare for the survey process.

### BUSINESS MANAGEMENT

#### Big Practice Problems: What Are You Experiencing?

*Michael Brown, CHBC*

Credits: 1 COE (Category A), 1 CME  
**Room 104A**

Course will give you an opportunity to discuss your problem areas and see what issues other practices are having. All topics will be discussed.

### CODING & BILLING

#### Responding to a Post Payment Audit

*Kirk A. Mack, COMT, COE, CPC*

Credits: 1 COE (Category A), 1 CME, 1 AAPC  
**Room 103**

Course will describe how to handle scrutiny and/or criticism by Medicare or other third party payers using illustrative post payment audit cases. Rebuttal strategies are discussed.

### HUMAN RESOURCES

#### Employment Interviewing and Hiring Guidelines

*Sharon M. Brown, COT, COE*

Credits: 1 COE (Category A), 1 CME  
**Room 107C**

Course will provide attendees with tools and methods to help them prepare to interview and hire the best candidates available. You will be given checklists and discussion guides for asking the right questions to get relevant answers while recognizing legal pitfalls and how to avoid them.

### LEADERSHIP AND STRATEGIC MANAGEMENT

#### What to Do With Great Employees? Managing Team Success

*Kurtis Wankier*

Credits: 1 COE (Category A), 1 CME  
**Room 102B**

Course will demonstrate the serenity and achievement that comes from assembling the right team. Course will provide pearls on how matching the best candidates with practice needs sets you apart. Attendees will learn ways to help advance their teams by leading them to their greatest achievements with next level leadership.

### MARKETING & BUSINESS DEVELOPMENT

#### Patient Reviews: Good or Bad for Your Business?

*Greg Raeman, COE, CCOA, OCS*

Credits: 1 COE (Category A), 1 CME  
**Room 105**

Course will provide insight into the value of patient reviews to the ophthalmology practice and how to properly manage both positive and negative reviews.
Cool Tools: Big-Time Impact With Small-Scale Budgets
Kay Coulson, MBA*
Credits: 1 COE (Category A), 1 CME
Room 102A
New and improved for 2014, this edition of Cool Tools will provide the newest and best free or low-cost online applications, services and techniques to make your marketing shine. We’ll cover design, marketing communication, education and training, and demonstrate how we’ve used these tools to help practices grow.

OPTICAL SHOP

Decoding the Mystery of Buying Optical Frames
Suzi Martin, PhD
Credits: 1 COE (Category A), 1 CME
Room 107A
Course will teach you how to increase your capture rate and improve your skills in selecting, displaying, and pricing frames. Learn to negotiate with vendors, and manage your inventory.

RETINA

Compliance and Chart Review in the Retina Practice
William T. Koch, COA, COE, CPC*
Credits: 1 COE (Category A), 1 CME
Room 108
Course will discuss the formal compliance vs. quality assurance program in the retina practice. The interactive presentation will focus on the chart review process and red flags that are unique to a retina practice. Case studies from a Medicare audit that generated a multi-million dollar overpayment determination will be presented.

RISK MANAGEMENT & COMPLIANCE

New (and not so new) Compliance Concerns
Alan E. Reider, MPH, JD,* Allison Shuren, MSN, JD*
Credits: 1 COE (Category A), 1 CME
Room 106
Course will review compliance issues and conduct that raise significant risk of government enforcement, and discuss historical and current investigations and prosecutions relating to that conduct.

9:15–10:15 AM

AMBULATORY SURGERY CENTER (ASC)

Getting the Most From Ophthalmic ASC Benchmarking
Kent L. Jackson, PhD
Credits: 1 COE (Category A), 1 CME, 1 CA BRN
Room 107B
Course will provide an overview of clinical and business benchmarking, based on the OOSS Mark Performance Metrics benchmarking survey. Included will be discussion of how benchmarks measure and guide performance improvement. Results from prior benchmarking surveys will be presented and participants will learn how they can participate in the current survey.

BUSINESS MANAGEMENT

Enhancing Patient Engagement: Staff to Patient Interaction
Michael Besserman*
Credits: 1 COE (Category A), 1 CME
Room 104A
Course will teach strategies that help physicians and staff communicate more clearly, efficiently and respectfully so patients feel understood, appreciated and engaged in their health care.

CODING & BILLING

What to Look for in your Billing Office
Donna M. McCune, CCS-P, COE, CPMA,* Linda Georgian, COE*
Credits: 1 COE (Category A), 1 CME, 1 AAPC
Room 103
Course will provide tips on common errors made in the billing office including: inattention to claim filing issues, accounts receivable mismanagement, and tardy credentialing.

HUMAN RESOURCES

Clinic Safety: Whose Job is It?
Dianna E. Graves, BS Ed, COMT
Credits: 1 COE (Category A), 1 CME
Room 107C
Office safety needs to be practiced daily to ensure that accidents are kept to a minimum. But - what are office safety issues and how do you fix them. Whose job is it? We’ll discuss angry patients and co-workers, transferring patients, injuries and how to avoid them, and injury reporting.
LEADERSHIP AND STRATEGIC MANAGEMENT

Building Annual Strategic Plan for Practice or ASC
Michael Trier, MBA, Kurtis Wankier
Credits: 1 COE (Category A), 1 CME Room 102B
Course will review the process of building an annual strategic plan including 1) confirming mission, 2) setting key goals of the practice, 3) establishing action items for each goal, and 4) assigning accountability and targets.

MARKETING & BUSINESS DEVELOPMENT

Five Keys to Successfully Marketing Laser Cataract Surgery
Michael W. Malley
Credits: 1 COE (Category A), 1 CME Room 102A
Course will allow attendees to learn the five most important marketing steps to take in successfully promoting Laser cataract surgery. Topics will include key advertising strategies, proper pricing packaging, conversion skills, and media targets.

Making Contact Lenses Part of Your Successful Practice
Linda Strand
Credits: 1 COE (Category A), 1 CME Room 105
Course will discuss how to implement, maintain and grow a successful contact lens department as part of your successful ophthalmic practice.

OPTICAL SHOP

Adding an OD to Your Dispensing Ophthalmology Practice
Arthur De Gennaro*
Credits: 1 COE (Category A), 1 CME, 1 ABO Room 107A
Course will explore the rewards and potential pitfalls involved in adding an optometrist to a dispensing ophthalmology practice. Topics covered will include: recruiting, managing, supervising, and compensating an employed OD. Emphasis will be on optimizing both MD and OD productivity and increasing overall practice revenues.

RETINA

Electronic Health Records in the Retina Practice
Joy Woodke, COE, OCS,* Jaime C. Landon, COA, OCS
Credits: 1 COE (Category A), 1 CME Room 108
Learn from seasoned administrators who have developed, implemented and continued to improve the use of EHR in a busy retina practice with multiple locations. Designing workflows, revising templates and utilizing scribes are a few of the techniques presented. Along with reviewing Meaningful Use, PQRS and documentation in a retina practice.

RISK MANAGEMENT & COMPLIANCE

Common Compliance Errors—and How to Avoid Them
Alan E. Reider, MPH, JD,* Allison Shuren, MSN, JD*
Credits: 1 COE (Category A), 1 CME Room 106
Course will identify common regulatory and compliance errors that we have seen among ophthalmology practices, and offer solutions to avoid them as well as what to do to correct them. The format will be an interactive exchange with the audience, seeking comment about the problem and the solution.

AMBULATORY SURGERY CENTER (ASC)

Top Business Pearls for Femtosecond Laser Procedures
Nikki Hurley, RN, BSN, MBA, COE, James Dawes, MHA, CMPE, COE
Credits: 1 COE (Category A), 1 CME, 1 CA BRN Room 107B
Course will discuss diverse case studies related to the startup and ongoing success of femtosecond laser procedures. The discussion will include timelines, return on investments, staff and patient efficiency, with views based on multiple laser platforms.

BUSINESS MANAGEMENT

How to Navigate the Managed Vision Care Maze
Bill Russ*
Credits: 1 COE (Category A), 1 CME Room 104A
Course will look at how managed care impacts your practice. It will review how to understand managed care plans, cover the difference between discount plans and funded plans, and review how to assess and negotiate managed vision care plans.
CODING & BILLING

Coding Terminology—Getting Back to the Basics
Patricia Kennedy, COMT, CPC, COE*
Credits: 1 COE (Category A), 1 CME, 1 AAPC
This Course will describe terms and phrases important to the coding and billing process. Understanding the terminology can lead to better documentation, communication and seamless reimbursement. This is a good refresher course for established employees or basic coding course for new employees who are responsible for coding and billing.

HUMAN RESOURCES

The Five Step Management System
Derek A. Preece*
Credits: 1 COE (Category A), 1 CME
Course will teach attendees how to implement the Five Step Management System to develop the talents and strengths of staff members and encourage poor performing employees to fire themselves. Course will also address the Five Steps of Employee Responsibility and the three prescriptions for failing employees.

LEADERSHIP AND STRATEGIC MANAGEMENT

Leadership Tips for Women: Learn From the Mistakes of Others
Maureen L. Waddle, MBA*, Candace S. Simerson, COE, *
Laurie K. Brown, COMT, COE, * Sherri L. Boston, MBA, COE, OCS, *
Jane T. Shuman, COT, COE, OCS*
Credits: 1 COE (Category A), 1 CME
Course will provide leadership tips from a panel of seasoned ophthalmic professionals. Panelists will answer questions such as: What was the one pitfall in my career that I’d like others to avoid? Panelists will answer audience questions and share experiences about leadership within their practices and the ophthalmic community.

MARKETING & BUSINESS DEVELOPMENT

Patient Pay is Here to Stay: Femto Cataract Marketing 101
Wade Morrison*
Credits: 1 COE (Category A), 1 CME
Course will be a detailed overview of where to focus your marketing efforts to make the most of your femto cataract technology and premium lens offerings.

Can You Afford a Femtosecond Laser?
Stephen C. Sheppard, CPA, COE,* Kevin J. Corcoran, COE, CPC*
Credits: 1 COE (Category A), 1 CME
Room 102A
Course will enable attendees to create a budget for a femtosecond laser and identify potential sources of revenue and expense to make the capital budgeting decision—can we afford this laser? Additionally, attendees will learn to identify alternative strategies should they decide not to purchase a femtosecond laser.

OPTICAL SHOP

Getting a Grip on Optical: Word From the Trenches
Nancy C. White, MA, COE, Suzi Martin, PhD
Credits: 1 COE (Category A), 1 CME
Room 107A
Course will describe efforts to become knowledgeable and confident in supervising optical operations. Differences between clinical and retail environments will be highlighted. Problems and pitfalls will be discussed.

RETIJA

The ABC’s of Retina in a General Ophthalmology Practice
Laurie Oliver, COE
Credits: 1 COE (Category A), 1 CME
Room 108
Course will guide a moderately experienced administrator or physician on the journey to “retina land.” This interactive discussion will help answer the questions, Do we need a retina specialist in our practice? How do we go about adding retina to our practice?

RISK MANAGEMENT & COMPLIANCE

How to Safeguard Your Practice From Employee Theft
Jill B. Maher, MA, COE,* Linda Georgian, COE*
Credits: 1 COE (Category A), 1 CME
Room 106
Course will enlighten the audience as to how common employee theft has become in medical practices, resulting in billions of dollars lost annually. This session explores the impact of employee theft; focusing on the greatest areas of vulnerability and how to mitigate risk. We will explore how and why honest employees steal.
1:00–2:00 PM

**AMBULATORY SURGERY CENTER (ASC)**

**ASC Regulatory Update**
Crissy Benze, RN, BSN  
Credits: 1 COE (Category A), 1 CME, 1 CA BRN  
Room 107B  
Course will give an overview of regulatory updates specific for ASCs, including CMS, HIPAA, OSHA and Surgical Site Infection Surveillance.

**BUSINESS MANAGEMENT**

**Using the New On-Line Pinto/ASOA Practice Viability Index**
John B. Pinto*  
Credits: 1 COE (Category A), 1 CME  
Room 104A  
Course will teach the use of a new ASOA tool, the Practice Viability Index, to measure practice resiliency. After a review of the new PVI tool, and a discussion of practical factors that can elevate your practice’s odds for survival, the floor will be opened for audience discussion and questions.

**CODING & BILLING**

**ICD-10—What You Should Be Doing Now**
Ann Rose*  
Credits: 1 COE (Category A), 1 CME  
Room 103  
Course will provide information on how to make the transition to ICD-10 a smooth one including recommendations for action items to keep you on track. Several case studies will be discussed to show how ICD-10 coding differs from ICD-9.

**EHR & INFORMATION TECHNOLOGY**

**Achieving Meaningful Use With Compliant Documentation and MU Audit Protection**
Jeff Grant, Kirk A. Mack, COMT, COE, CPC*  
Credits: 1 COE (Category A), 1 CME  
Room 105  
This course discusses key Stage 1 & 2 Meaningful Use requirements and how they relate to compliance, documentation and audit protection. Simply filling in EMR fields, does not insure compliance or “good” documentation. The lecturers discuss the do’s and don’ts to achieve MU with proper documentation and MU audit protection.

**HUMAN RESOURCES**

**Staff Training to Raise Perceived Value of Your Product Line**
Michael W. Malley  
Credits: 1 COE (Category A), 1 CME  
Room 107C  
Course will give techs, counselors and surgery schedulers the proper tools and scripts to increase patients’ perceived value of premium product lines, including laser cataract surgery, multifocal lenses, toric lenses, and laser vision correction. The presentation will include specific samples of pricing sheets, staff scripting and patient education videos.

**LEADERSHIP AND STRATEGIC MANAGEMENT**

**Keys to Attracting and Managing Talented Employees**
Robert W. Grim*  
Credits: 1 COE (Category A), 1 CME  
Room 102B  
Course will cover hiring, training, creating a culture of success, and systems of employee management.

**MARKETING & BUSINESS DEVELOPMENT**

**Marketing Ophthalmology on a Shoestring Budget**
Corinthia D. Worrell, COT  
Credits: 1 COE (Category A), 1 CME  
Room 102A  
Course will provide the key building blocks for succeeding with on-line marketing at little to no cost. Learn strategies and tactics of social media marketing and effectively integrate them into your marketing mix. Discover ways to engage the community, build your following, drive communications, and reinforce your brand.

**OPTICAL SHOP**

**Optical Turnaround Case Studies Part 1**
James Dawes, MHA, CMPE, COE*  
Credits: 1 COE (Category A), 1 CME  
Room 107A  
Course will describe multiple scenarios in which administrators took non-performing optical divisions and created high performing, lucrative optical businesses, through the application of standardized measurements and performance benchmarks, as well as staff and physician training, marketing and facility design.
**ASOA Program**

**Monday, April 28**

**RETINA**

**Retina Coding and Reimbursement 101**

*William T. Koch, COA, COE, CPC*

Credits: 1 COE (Category A), 1 CME  
Room 108

Course will focus on the basics of coding and reimbursement in the retina practice. The interactive presentation will discuss eye codes vs. E/M codes, documentation for diagnostic tests, surgical coding, bundling edits and modifiers.

**RISK MANAGEMENT & COMPLIANCE**

**1000 Audits Identify Top 10 Compliance Issues**

*John S. Bell, MBA, COE, CMPE, Michael A. Manere*

Credits: 1 COE (Category A), 1 CME  
Room 106

Course will discuss the top 10 compliance issues for medical practices gleaned from involvement in over 1000 audits.

**2:15–3:15 PM**

**AMBULATORY SURGERY CENTER (ASC)**

**Ding Ding Ding . . . When Surveyors Come Knocking**

*Regina Boore, RN, BSN, MS CASC*

Credits: 1 COE (Category A), 1 CME, 1 CA BRN  
Room 107B

Course will review the most frequently cited and little known survey deficiencies and discuss compliance strategies to facilitate optimal survey outcomes through a slide and lecture presentation.

**BUSINESS MANAGEMENT**

**Shifting Reimbursement Paradigms**

*Donna M. McCune, CCS-P, COE, CPMA, * Kevin J. Corcoran, COE, CPC*

Credits: 1 COE (Category A), 1 CME  
Room 104A

Course will describe alternatives to fee-for-service payment methods and the anticipated impact on forecasted reimbursement 10 years from now due to PPACA.

**CODING & BILLING**

**Things You Never Knew About Diagnostic Tests**

*Kirk A. Mack, COMT, COE, CPC*

Credits: 1 COE (Category A), 1 CME, 1 AAPC  
Room 103

Course will describe required notations in the medical record to satisfy the requirements of “interpretation and report” for a diagnostic test. When tests are repeated, learn what additional notations support medical necessity.

**EHR & INFORMATION TECHNOLOGY**

**Meaningful Use Audit Defense Plan**

*Chanda M. Williams, MS*

Credits: 1 COE (Category A), 1 CME  
Room 105

Course will provide detailed information on the meaningful use audit process and guide EHR users through preparing their audit defense plan. Participants will leave with action items and actual audit scenarios from practices that have been through the audit process.

**HUMAN RESOURCES**

**The Comprehensive Course on Physician Hiring (Part 1)**

*Richard C. Koval, MPA, CMPE*

Credits: 1 COE (Category A), 1 CME  
Room 107C

Course will provide critical information to practices planning to add a new ophthalmologist and addresses feasibility assessment, the recruitment process, selecting the best candidate, closing the deal, and arranging a smooth transition. (Part 2 addresses typical contract provisions including compensation structures and potential co-ownership.)

**LEADERSHIP AND STRATEGIC MANAGEMENT**

**The Holy Grail of Leadership for Physicians and Administrators**

*Craig N. Piso, PhD, * John B. Pinto, * Corrinne Z. Wohl, MHSA, COE*

Credits: 1 COE (Category A), 1 CME  
Room 102B

Course will describe a unique, complimentary model of effective leadership between the managing partner and practice administrator . . . the “Leadership Dyad” . . . and how to drive optimal staff performance through their synergy. Participants will learn the value of developing personal and shared power as the keys to creating staff morale/accountability.

**MARKETING & BUSINESS DEVELOPMENT**

**Retirement Planning 101**

*Emily G. Wood, CFP*

Credits: 1 COE (Category A), 1 CME  
Room 102A

Course will cover some of the basics of retirement planning including how to determine how much you will need to retire/monthly spending needs, how to structure distributions from your portfolio, how to manage distributions in a down market, and portfolio allocation suggestions.

ASOA Course Level:  

- **b** Beginner (0–3 years in field)  
- **i** Intermediate (4–9 years in field)  
- **a** Advanced (10+ years in field)

*Denotes financial interest; see Financial Interest Index for full listing.
ASOA Program

Monday, April 28

OPTICAL SHOP

Optical Turnaround Case Studies Part 2

James Dawes, MHA, CMPE, COE*

Credits: 1 COE (Category A), 1 CME

Room 107A

Course will share optical turnaround cases.

RETINA

Management and Dashboard Reporting for the Retina Practice

Andrew Maller, MBA*

Credits: 1 COE (Category A), 1 CME

Room 108

Course will introduce the topic of management and dashboard reporting for productivity and efficiency measures as it relates to the retina practice. During the course case studies and sample tools will be provided as well as a guide on how to interpret results in order to improve practice performance.

RISK MANAGEMENT & COMPLIANCE

Meaningful Use—Stage 1 Audit & Information Technology Security Risk Analysis

Scott W. Peterson*

Credits: 1 COE (Category A), 1 CME

Room 106

Course will cover the process, steps and key lessons learned for being selected for a Meaningful Use audit after a successful attestation. We will also cover meaningful use measure 15 - protecting health information by conduct or reviewing a security risk analysis.

3:00–4:30 PM

S-20 Joint Symposium

Data Security: HIPAA Compliance and the Meaningful Use Data Security Requirement

Sponsored by the ASCRS Health Information Technology Committee

Moderator: Candace S. Simerson, COE*
President and Chief Operations Officer, Minnesota Eye Consultants, P.A.

Panelists: Daniel M. Bernick, Esq, MBA*
Principal, The Health Care Group
Mark E. Johnson*
President, MedNetwoRx
Janna Mullaney, COE, OCS*
Chief Operations Officer, Katzen Eye Group

The 2014 HIT Symposium will focus on Data Security: HIPAA Compliance and the Meaningful Use Data Security Requirement. Many ophthalmic practices grapple daily with privacy and data security issues. This symposium will help answer some of the most common questions practices may have about compliance and suggest corrective actions to take once a security breach has occurred.

The symposium will provide a better understanding of the meaningful use attestation data security requirement, advice on using the security risk analysis process to identify potential security problems to mitigate risks before they become liabilities, and tips on handling data security with the continuing advancement of mobile devices in the workplace.

A panel will present case studies of frequently occurring security situations, and provide the audience the opportunity to weigh in on the case study scenarios. The panel will then address the possible issues present in each case study, offer opinions on whether a security breach has occurred, and provide prevention techniques and solutions for each situation.

ASOA Course Level: {beginner} Beginner (0–3 years in field) {intermediate} Intermediate (4–9 years in field) {advanced} Advanced (10+ years in field)

*Denotes financial interest; see Financial Interest Index for full listing
3:30–4:30 PM

**AMBULATORY SURGERY CENTER (ASC)**

**Numbers for Nurses:**

ASC Financial Statements

Maureen L. Waddle, MBA,* Derek A. Preece*

Credits: 1 COE (Category A), 1 CME; 1 CA BRN

Room 107B

Course will help ASC managers, especially nurses new to business management, prepare and analyze financial information to help make better decisions.

**BUSINESS MANAGEMENT**

**Strategic Guidelines for Residents**

Michael Brown, CHBC*

Credits: 1 COE (Category A), 1 CME

Room 104A

Course will look at what a resident will need to join a practice and look at possible buy-in opportunities.

**A Practical Guide for Creating Meaningful Practice Budgets**

Andrew Maller, MBA*

Credits: 1 COE (Category A), 1 CME

Room 105

Course will provide a practical and simple approach for implementing a practice budget. Specific methods will be introduced related to examining historical and current results, assessing future changes in the practice, forecasting future results, and integrating the results with financial reporting efforts.

**HUMAN RESOURCES**

**The Comprehensive Course on Physician Hiring (Part 2)**

Richard C. Koval, MPA, CMPE*

Credits: 1 COE (Category A), 1 CME

Room 107C

Course will provide critical information to practices planning to add a new ophthalmologist and addresses typical contract provisions including compensation structures and potential co-ownership. (Part 1 addresses feasibility assessment, the recruitment process, selecting the best candidate, closing the deal, and arranging a smooth transition.)

**LEADERSHIP AND STRATEGIC MANAGEMENT**

**Great Expectations. . . . Will This Really Work?**

Steven R. Robinson, COE, FASOA*

Credits: 1 COE (Category A), 1 CME

Room 102B

Course will feature the types of expectations we should have for our personnel and how the administrator should go about turning expectations into reality. Are fundamental changes necessary in the practice and how should the administrator go about implementation?

**MARKETING & BUSINESS DEVELOPMENT**

**Can We Talk? Understanding Patient Perceptions**

Angel Seymour

Credits: 1 COE (Category A), 1 CME

Room 102A

Course will examine the importance of patient perception and several incidents we have encountered and how we were able to resolve the issues and create a win-win situation.

**OPTICAL SHOP**

**Managing the Optical Laboratory**

Bill Russ*

Credits: 1 COE (Category A), 1 CME

Room 107A

Course will review how a practice can partner with their optical laboratory looking at resources offered. It will focus on focusing on utilizing these resources and not just looking at price alone.

*ASOA Course Level:  b Beginner (0–3 years in field)  i Intermediate (4–9 years in field)  a Advanced (10+ years in field)*

*Denotes financial interest; see Financial Interest Index for full listing*
ASOA Program

Monday, April 28—Tuesday, April 29

RETINA

EMR Challenges for Retina. Paper is Gone
William T. Koch, COA, COE, CPC,* Kirk A. Mack, COMT, COE, CPC*
Credits: 1 COE (Category A), 1 CME
Room 108

Course will discuss compliance challenges associated with retina EMR utilization. The interactive presentation will focus on documentation completion, documentation modification, accurate coding, and other compliance issues unique to retina.

RISK MANAGEMENT & COMPLIANCE

Reimbursement Compliance Issues: Getting It Right!
Alan E. Reider, MPH, JD,* Donna M. McCune, CCS-P, COE, CPMA*
Credits: 1 COE (Category A), 1 CME
Room 106

Course will present a series of case studies examining compliance issues focused on reimbursement and the potential risk related to those issues. An interactive session designed to assist administrators with the challenge of staying current with changing reimbursement rules and regulations and their obligations when a problem is identified.

3:45–4:45 PM
John Pinto Book Signing
ASOA Bookstore in Booth #663

BUSINESS MANAGEMENT

How Much Is My Practice Worth?
Michael Brown, CHBC*
Credits: 1 COE (Category A), 1 CME
Room 104A

Course will explain fair market value concept. Discuss approaches, compensation models and market trends.

CODING & BILLING

Streamlining the Appeals Process
Ann Rose*
Credits: 1 COE (Category A), 1 CME, 1 AAPC
Room 103

Course will discuss the importance of having a good Medicare appeals process in place to keep the revenue stream flowing during the ICD-10 transition. Included will be tips for simplifying the appeals process and step by step guidelines for handling claim denials and submitting proper appeals.

HUMAN RESOURCES

Huddle Up! How to Develop a Winning Team
Angel Seymour
Credits: 1 COE (Category A), 1 CME
Room 107C

Course will teach the importance of staff training and developing a winning team. How to show your staff that each one of us play an important role in the practice. Understanding your employees including their potential and their limitations.

LEADERSHIP AND STRATEGIC MANAGEMENT

Collaborative Leadership! Getting the Most Out of the Team
Alex Lopez*
Credits: 1 COE (Category A), 1 CME
Room 107A

Course will teach you how to organize and lead your organization. Learn the fundamentals of getting your team on the right track and get things done. Learn techniques to focus your time on things that matter most. Learn how to eliminate wasteful behaviors and keep your team focused.

TUESDAY, APRIL 29

8:00–9:00 AM

AMBULATORY SURGERY CENTER (ASC)

Risk Management in the ASC
Sandra J. Jones, LHRM, CASC
Credits: 1 COE (Category A), 1 CME, 1 CA BRN
Room 107B

Course will explain the similarities and differences between risk management, quality assessment/performance improvement and regulatory compliance.

ASOA Course Level: Beginner (0–3 years in field) Intermediate (4–9 years in field) Advanced (10+ years in field)
*Denotes financial interest; see Financial Interest Index for full listing
MARKETING & BUSINESS DEVELOPMENT

Social Media: Leveraging Your Likes Into Dollars Makes Sense
Nikki DiBacco, ABO, NCLE*
Credits: 1 COE (Category A), 1 CME
Room 105
Course will discuss the various social media components available to practices, with explanations of their uses, terms of advertising, and discussion of how best to utilize those social media platforms to reach more patients.

9:15–10:15 AM

AMBULATORY SURGERY CENTER (ASC)

Integration of Surgical Retina Into Your ASC—A Panel Discussion
Todd Albertz, Donald B. Holmes, MA,* Nikki Hurley, RN, BSN, MBA, COE
Credits: 1 COE (Category A), 1 CME, 1 CA BRN
Room 107B
Course will be a panel discussion pertaining to the integration of retina services into an ASC environment. The panel will consist of administrators and directors of nursing of large and small ophthalmic ASCs and provide various views on whether adding retina may be right for your practice.

BUSINESS MANAGEMENT

ACO Overview: Final Medicare Shared Savings Regulations
Michael Brown, CHBC*
Credits: 1 COE (Category A), 1 CME
Room 107C
Course will present an overview of the Medicare Shared Savings Program and the requirements to participate in the program as an ACO and describe key characteristics of ACOs that will increase their probability of realizing an ROI from the initial and ongoing ACO-related investments.

How 15 Practices Converted 77% of Elective Surgery Consultations
Brandi Musgrave*
Credits: 1 COE (Category A), 1 CME
Room 104A
Course will educate how to perfect the consult flow to increase conversions and create a positive patient experience by differentiating your practice through the eyes of a patient.

CODING & BILLING

Coding and Documenting Intravitreal Injections
Patricia Kennedy, COMT, CPC, COE*
Credits: 1 COE (Category A), 1 CME, 1 AAPC
Room 103
Course will discuss the common issues associated with intravitreal injections & proper way to bill these services. Intravitreal injections are one of the most commonly performed procedures in ophthalmology. Documenting & billing for these encounters can be confusing, controversial & in post-payment review deficient.

LEADERSHIP AND STRATEGIC MANAGEMENT

Case Studies in Ophthalmology Service Lines and Clinical Co-Management
Jeffry M. Moffatt, CPA/ABV, CVA
Credits: 1 COE (Category A), 1 CME
Room 107A
Course will be case studies of the operational, clinical and financial aspects of a co-management agreement between an ophthalmology practice and an academic health system. Specific facts and circumstances to the case studies will be covered as well as other nuances of co-management agreements.

Increasing Revenue by Creating an Efficient Master Schedule
Jeri R. Screnci, MBA
Credits: 1 COE (Category A), 1 CME
Room 106
Course will show attendees how to evaluate their present provider schedule and in doing so, to identify inefficiencies. This material is relevant for a single provider office administrator to a large multi-office and multi-provider administrator.

MARKETING & BUSINESS DEVELOPMENT

Ten Steps to the Ultimate LASIK Consultation
Lisa Chmura
Credits: 1 COE (Category A), 1 CME
Room 105
Course will provide valuable insight into the 10 key steps every practice should Incorporated into their LASIK consultation process, leading to both better patient experience and increased conversions.
10:30–11:30 AM

AMBULATORY SURGERY CENTER (ASC)

Infection Control in the Ophthalmic ASC
Elethia Dean, BSN, MBA, PhD
Credits: 1 COE (Category A), 1 CME, 1 CA BRN  Room 107B
Course will review standard precautions, universal precautions, instrument cleaning, disinfection, and sterilization processes, and other aspects of infection control that affect the quality of care in the ophthalmic ASC. Current deficiencies found in Medicare certification surveys will also be discussed, including the regulation behind each deficiency.

BUSINESS MANAGEMENT

Space Planning: A Step by Step Guide
Tim Griffin*
Credits: 1 COE (Category A), 1 CME  Room 104A
Course will go through the proper steps of the space planning process for a medical practice. Attention will be placed on understanding how to determine the amount of space needed, appropriate sites, organizational priorities and where to get the best bang for aesthetic bucks.

HUMAN RESOURCES

Preventing Practice Brain Drain With Retirement of Ophthalmologists and Employees
Joseph Casper, MBA, COE,* Gavin Barton, EdD
Credits: 1 COE (Category A), 1 CME  Room 107C
Course will educate practice managers and partner ophthalmologists in techniques to extract valuable clinical, practice and professional knowledge prior to ophthalmologists or key employees retiring.

LEADERSHIP AND STRATEGIC MANAGEMENT

Improving Patient Flow in a Large Multifocus Practice
Lisa Miller, COMT, COE
Credits: 1 COE (Category A), 1 CME  Room 107A
Course will focus on ways to evaluate and improve patient flow in your clinic. We will discuss ways to find various bottle necks in the clinic which negatively affect patient flow and suggestions on how to improve on total through-put time.

Seven Key Differences Between Thriving and Average Practices
Joseph Sokol, MD
Credits: 1 COE (Category A), 1 CME  Room 103
Course will identify elements to establish and maintain calm when turmoil abounds. Discover techniques to differentiate the practice and dominate the market. Learn how to overcome inertia, maintain momentum, and innovate at rapid speed. Understanding these key differences can jump start your evolution to the next level.

MARKETING & BUSINESS DEVELOPMENT

Seven Habits of Highly Successful Elective Practices
Cuinn Merrigan*
Credits: 1 COE (Category A), 1 CME  Room 105
Course will discuss specific approaches that elective surgery practices should take to improve patient experiences, manage internal personnel, utilize internal marketing, create tools for patient conversions and promote online referrals.
No calibration required.

One button operation.

Large LCD display on both sides for right or left handed use.

Long life battery with on-screen indicator.

Protect your investment with affordable OCU-FILM® + Tip Covers.

Soft touch grips ensure stability.

Award-winning, ergonomic design. Made in the USA.

Tono-Pen® just fits.

The Tono-Pen AVIA® Tonometer fits comfortably in your hand. Its ready-to-use, calibration-free operation fits your busy practice. Over 30 years of trusted accuracy and reliability fits your highest expectations.

Visit tonopen.com to see our Tono-Pen & Ocu-Film product lines.
The Technicians & Nurses Program will be held in Rooms 156ABC and 157ABC at the Boston Convention & Exhibition Center (BCEC).

A joint registration category is available for those interested in attending both the ASOA and Technicians & Nurses programs. Crossover between the ASOA and Technicians & Nurses programs will be permitted to those registered in the joint registration category only. Those registered for either the ASOA or Technicians & Nurses program will not be allowed to cross over. Registrants in either category are welcome to attend the ASCRS program.

The Joint Commission on Allied Health Personnel in Ophthalmology (JCAHPO®) is pleased to sponsor the Technicians & Nurses Program. JCAHPO is a national certifying agency for allied health personnel in ophthalmology. Certification is available at 3 levels: assistant, technician, and technologist. In pursuit of its mission, JCAHPO also provides education and services for allied health personnel in ophthalmology.

In addition to the JCAHPO-sponsored Technicians & Nurses Program, ATPO (Association of Technical Personnel in Ophthalmology) is offering a COA/COT/COMT Review Day on Friday, April 25, 2014, at the BCEC.

For information regarding the Technicians & Nurses Program, ATPO Review Day, and JCAHPO certification, contact JCAHPO at www.jcahpo.org.

**Continuing Education Credit**

The Technicians & Nurses Program has been JCAHPO approved. A maximum of 18 (Group A) credits are available for this program.

Additionally, ophthalmic allied health personnel can earn continuing education credits in Group B by attending physician courses/symposia/paper sessions at ASCRS that are designated for AMA PRA Category 1 Credit™. The following restrictions apply: COAs and COTs receive 1 credit for 2 hours attended; COMTs receive 1 credit for 1 hour attended.

All courses in the Technicians & Nurses Program have been approved for JCAHPO credits. Select courses are approved for CA BRN, OPS, and AOC credits.

**Saturday, April 26**

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**Monday, April 28**

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* Denotes financial interest; see Financial Interest Index for full listing
Saturdays, April 26

Session A
8:00 AM–4:30 PM
Room 156ABC

8:00 AM Infection Control: Anatomy of an IC Investigation
Regina Boore, RN, BSN, MS CASC*
Course Level: Intermediate
Synopsis & Educational Value: Course will present a case study of an ASC infection-control investigation for a postoperative cataract surgery infection.
Objectives: Attendees will be able to list the steps of a postoperative infection investigation and describe the considerations of importance to the investigation and analysis.

9:15 AM Multidrug Resistant Organisms: Impact on Healthcare
Arthur Henderson, RN, BA, CN OR*
Course Level: Intermediate
Synopsis & Educational Value: Course will discuss the emergence and transmission of antimicrobial-resistant organisms in healthcare settings. The approaches to the prevention and control of these organisms should be tailored to the specific needs of the institution and population. This presentation will focus on the most common multidrug resistant organisms, discuss risk factors, preventive measures, and guidelines to reduce the spread of infection.
Objectives: Attendees will understand multidrug-resistant organisms and be able to implement preventive measures.

10:30 AM What Technicians and Nurses Need to Know About Anesthesia
Richard J. Ruckman, MD
Course Level: Intermediate
Synopsis & Educational Value: Course will present a comprehensive review of local and systemic anesthesia to help the RN and technician recognize and manage perioperative risks for both clinic and ASC patients. Discussion will include the staff member’s role in conscious sedation and awareness of the risks and benefits of the most commonly used local and IV medications.
Objectives: Attendees will recognize perioperative risks in outpatient surgery and discuss the goals, techniques, benefits, and risks of various types of anesthesia.

1:00 PM Clinic First Aid: I Think My Patient Is Sick
Dianna E. Graves, BS Ed, COMT
Course Level: Intermediate
Synopsis & Educational Value: Unfortunately, there are times when a patient comes to the clinic and begins to feel poorly. It could be a headache and they are requesting aspirin, or they feel dizzy, or worse—they are now experiencing chest pains. When should you call 911? Course will discuss first aid for the following: shortness of breath, chest pain, fainting, seizures, and falls. Knowing these first-aid steps will help you assist your doctor in caring for these patients in an efficient and safe manner.
Objectives: Attendees will learn first-aid steps and discern which questions to ask in each scenario to aid the doctor during a medical emergency.

2:15 PM Unintended Consequences of Electronic Health Records
Kirk A. Mack, COMT, COE, CPC*
Course Level: Intermediate
Synopsis & Educational Value: Course will discuss how to deal with erroneous entries in electronic medical records and other unintentional charting problems. The consequences for compliance and reimbursement will be discussed, as well as practical strategies for reducing errors.
Objectives: Attendees will learn how to fix errors in an EHR, learn ways to minimize chart errors, and learn consequences of errors in charting.

*Denotes financial interest; see Financial Interest Index for full listing.
3:30  Allergic Conjunctivitis: Current Trends and Advancements  
John T. Huang, MD, FRCS  
Course Level: Intermediate  

Synopsis & Educational Value: Course will review the diagnosis, investigation, and treatment of allergic conjunctivitis. New treatments and current trends in research will be reviewed.  

Objectives: Attendees will be able to describe the clinical presentation, the differential diagnosis and investigations of allergic conjunctivitis, and treatments available.

10:30  Ophthalmic Manifestations of Systemic Diseases  
Komal B. Desai, MD  
Course Level: Intermediate  

Synopsis & Educational Value: Course will discuss common ophthalmic findings in different medical conditions. Photos of what to look for will be presented. Discussions will include associated signs and symptoms of these conditions and what questions to ask the patient based on their medical history.  

Objectives: Attendee will correlate patient’s complaints with possible relations between ocular findings and medical history and identify which diseases need routine exams.

Session B
8:00 AM–4:30 PM  

8:00 AM  LASIK for Cataract Surgery (L4C): All You Need to Know  
Rolando Toyos, MD*  
Course Level: Advanced  

Synopsis & Educational Value: Course will outline the steps in laser-assisted cataract surgery, focusing on how each step is optimized by use of computer-guided femtosecond laser technology. It will include a discussion on how to optimize patient outcomes by performing specific preoperative testing and analyzing specific data points gathered to determine limbal relaxing incision and IOL parameters.  

Objectives: Attendees will be able to describe the steps in laser-assisted cataract surgery and how to optimize results with preoperative testing.

9:15  Refractive Surgery: What Can We Treat and Who Don’t We Want to Treat  
Karl G. Stonecipher, MD*  
Course Level: Intermediate  

Synopsis & Educational Value: Course will discuss updates in new technologies that have been recently approved, ones that are soon to be approved, and patient selection for laser correction.  

Objectives: Attendees will learn recently approved technologies in refractive surgery and be able to identify patients that could be candidates for laser correction.

1:00 PM  Ocular Trauma in Sports and Recreation: Series of Case Presentations  
Jean E. Ramsey, MD, MPH  
Course Level: Intermediate  

Synopsis & Educational Value: Course will provide an abundance of clinical images, focusing on the important exam findings ranging from less serious (corneal abrasions, traumatic iritis) to moderately serious (fractures, hyphema, retinal detachment) to the most serious (penetrating ocular trauma, optic nerve avulsions). The key exam findings will be emphasized, along with appropriate management, including when the patient may require referral. Prevention strategies, such as protective eyewear, will also be discussed.  

Objectives: Attendees will recognize the ocular hazards involved in sports and understand the management of the most common ocular injuries and those requiring referral.

2:15  Use of Femtosecond Laser for Complicated Cataract Cases and Astigmatism Correction  
Michael J. Taravella, MD*  
Course Level: Advanced  

Synopsis & Educational Value: Course will cover basic principles in the use of the femtosecond laser in approaching complex cases such as white hypermature cataracts or pseudoexfoliation syndrome. Correction of astigmatism and the early results will be presented.  

Objectives: Attendee will describe how the femtosecond laser can be used to make complex cataract surgery safer and more predictable and its use in correcting astigmatism.

*Denotes financial interest; see Financial Interest Index for full listing
3:30  Keratoconus: Recent Advances in Our Understanding and Treatment
Alan N. Carlson, MD*
Course Level: Advanced

Synopsis & Educational Value: Course will discuss keratoconus, a common and progressive disease that leads to corneal thinning, steepening, and irregular astigmatism. Recent advances include the ability to diagnose this condition earlier and intervene to reduce the likelihood of progressing to corneal transplantation. Additionally, recent discovery shows an association with other conditions including weight gain and obstructive sleep apnea.

Objectives: Attendee will recognize keratoconus and associated co-morbidities and determine the role of surgical options in the management of more advanced keratoconus.

9:15  You Want Me To Do What? Ins and Outs of Specialty Testing
Savory Turman, COMT
Course Level: Intermediate

Synopsis & Educational Value: Course will discuss adjunctive testing throughout clinical setting and the necessity of testing. The common indications for specialty testing will be discussed, including Goldmann visual field, color testing, OCT, keratometry, photography, and exophthalmometry. Course will provide an explanation of how testing is done as well as how to communicate instructions to patients.

Objectives: Attendee will identify multiple categories of specialty testing, explain the tests to the patient, and be able to assist physician in facilitating adjunctive testing.

10:30  Multifocal Intraocular Lenses: Promise and Delivery
Steven Nielsen, MD
Faculty: Min Cheng, COMT
Course Level: Intermediate

Synopsis & Educational Value: Course will discuss multifocal IOLs. The ability to deliver results that match the technology will be emphasized. Dealing with postop care of the patient after multifocal IOL implantation will be presented, including side effects, potential complications, and unexpected outcomes.

Objectives: Attendees will gain a greater understanding of multifocal IOLs and how to best provide postop care of patients after IOL implantation.

1:00 PM  Anterior Segment Testing: An Eye Opener
Amy V. Jost, COT, CCRC*
Course Level: Intermediate

Synopsis & Educational Value: Course will introduce attendees to various options for axial length measurements using optical biometry as well as ultrasound. The benefits and indications will be reviewed.

Objectives: Attendees will be able to identify various anterior segment diagnostic tests, differentiate between various optical biometry devices, and discuss UBM and its benefits.

*SDenotes financial interest; see Financial Interest Index for full listing
2:15 **Coding for Eye Exams**

*Mary Pat Johnson, COMT, COE, CPC, CPMA*

Course Level: Intermediate

**Synopsis & Educational Value:** Course will review both E/M codes and eye codes in CPT to report office visits performed by ophthalmologists and optometrists. Discussions will include recording the patient’s chief complaint and medical history, documenting all elements of the examination, assessing the complexity of medical decision-making within an E/M service, and scoring the elements of an office visit. A number of vignettes will be provided so attendees can test their skill in selecting an appropriate CPT code.

**Objectives:** Attendee will identify various components of the medical record, its completeness, and the reason for the visit, and be able to select appropriate CPT codes based on the chart documentation.

3:30 **ICD-10 Overview: How the Change Will Impact Technicians and Nurses**

*Ann Rose*

Course Level: Intermediate

**Synopsis & Educational Value:** Converting to ICD-10 diagnosis coding could be the most difficult challenge facing ophthalmology ever. Knowing what is involved in converting from ICD-9 to ICD-10 and understanding the need for additional training and improved chart documentation is critical. Course will identify the importance of the technician’s and nurse’s role in the conversion process with regard to chart documentation and avoiding costly documentation errors that could result in claim denials.

**Objectives:** Attendee will identify differences between ICD-9 and ICD-10 and determine timeframes for when additional training may be needed to comply with ICD-10 requirements.

9:15 **What’s New in Glaucoma Surgery?**

*Ike K. Ahmed, MD*

Course Level: Intermediate

**Synopsis & Educational Value:** Course will review what’s new in diagnostic, therapeutic, and surgical innovations in glaucoma.

**Objectives:** Attendees will learn the rationale for new glaucoma surgical approaches, the role and limitations of diagnostics, and recognize future developments in glaucoma.

10:30 **Latest Corneal Transplant Techniques: Practical Workup, Surgical, and Postop Issues for the Technician**

*Kashif Baig, MD, MBA*

Course Level: Advanced

**Synopsis & Educational Value:** Course will describe various corneal transplant techniques (PK, DALK, SALK, DSAEK, UT-DSAEK, DMEK, KPro) and lead the audience through practical issues involved in the workup, operating room, and postoperative management of these transplant patients. Video-based presentation will focus on high-yield issues that can be incorporated immediately into practice.

**Objectives:** Attendees will be able to describe various corneal transplant techniques and how to manage patients preoperatively, intraoperatively, and postoperatively.

*Denotes financial interest; see Financial Interest Index for full listing*
1:00 PM  Retina Clinical Trials Update 2014
William F. Mieler, MD*
Course Level: Advanced

Synopsis & Educational Value: Course will present the results of new clinical trials in the treatment of age-related macular degeneration (AMD), diabetic macular edema (DME), retinal venous occlusive (RVO) disease, and diseases affecting the vitreomacular interface. Complications of treatment will be thoroughly reviewed. The results will be compared with pre-existing treatment modalities, and a discussion will ensue regarding how the results of the new trials fit into our current treatment patterns.

Objectives: Attendees will be able to list new treatments for AMD, DME, and RVO, and recognize how these new treatment modalities fit into current practices.

2:15  Premium IOLs: Good Candidate or Not?
Stephen V. Scoper, MD*
Course Level: Intermediate

Synopsis & Educational Value: Recommending the right IOL to a patient is an important responsibility. Course will describe the detailed workup necessary for cataract patients to make this recommendation. The mechanism of action of toric, multifocal, and accommodating IOLs will be discussed. Problem-solving postoperatively will also be outlined.

Objectives: Attendee will describe components of preoperative testing, identify best candidates for IOLs, and how to discuss with patients realistic expectations with various IOLs.

3:30  Corneal Collagen Crosslinking
Peter S. Hersh, MD*
Course Level: Advanced

Synopsis & Educational Value: Course will discuss signs/symptoms of keratoconus, define the scientific basis of collagen crosslinking (CXL), present the indications for the procedure, explain the method of the procedure, and describe early results.

Objectives: Attendees will identify potential indications for CXL, describe the steps in the procedure and follow-up care, and discuss results of clinical studies to date.

MONDAY, APRIL 28

Session A

8:00 AM  Support Staff’s Role in ASC Documentation
Patricia Kennedy, COMT, CPC, COE*
Course Level: Intermediate

Synopsis & Educational Value: Course will discuss how the documentation requirements for ASCs have changed in the past 5 years. This documentation is rooted in the clinic chart. In most practices, the technician or nurse has a key role in collecting, completing, and transmitting this information for the ASC.

Objectives: Attendee will describe the changes in ASC documentation requirements and discuss what elements of the clinic chart should also be in the ASC chart.

9:15  OSHA Compliance in Ophthalmology
Elethia Dean, BSN, MBA, PhD
Course Level: Intermediate

Synopsis & Educational Value: Course will cover updated OSHA requirements for the ophthalmic team. Hazard communication standard, Safety Data Sheets, global harmonization system, and general OSHA requirements for the ophthalmic industry will be covered.

Objectives: Attendee will describe the difference between Material Safety Data Sheets and Safety Data Sheets and identify items required for annual OSHA training in the office/ASC.
10:30  Using Checklists to Prevent Patient Harm
Anne M. Menke, RN, PhD
Course Level: Intermediate

Synopsis & Educational Value: Course will discuss actual malpractice cases in which careful preparation and coordination did not occur. They will be presented to illustrate the risks to patient safety and the need for safer protocols. Such a protocol was developed specifically for ophthalmology and will be explored in detail. Participants will have ample opportunity to discuss how to implement it where they work.

Objectives: Attendee will determine points in the care process when a surgical checklist is needed and develop a plan to implement protocols in all healthcare settings.

1:00  Which is Worse? Discussion of the Differences Between Common Patient Problems
Dianna E. Graves, BS Ed, COMT
Course Level: Intermediate

Synopsis & Educational Value: Patients arrive at the doctor’s office with a number of eye diagnoses and one question: “Which is Worse?” Course will discuss the anatomical differences between a number of patient concerns including: scleritis versus episcleritis, dry ARMD versus wet ARMD, Fuchs versus bullous keratopathy and OHTN versus POAG. Course will discuss the complaints the patient may present with, as well as the correct exam to provide for the doctor to complete their examination of the patient.

Objectives: Attendees will be able to identify common eye diseases and determine the correct technical exam to perform for each.

2:15  Bridging the Chasm—Paradigm Shift in Source Documentation for Clinical Trials
Cynthia L. Callina, COMT, CCRC
Course Level: Intermediate

Synopsis & Educational Value: Help! The sponsor wants it this way and the FDA says it should be that way. In reality, here is what I have to work with. So, how does it all fit together? With the use of computerized systems for health care and data capture in clinical investigations, it is common to find at least some source data recorded electronically. Course will highlight some of the challenges and benefits of both electronic data capture and paper source documentation and will explore methods of bridging the gap.

Objectives: Attendees will be able to define source documentation, describe various methods for capturing source data, and integrate paper and electronic source documentation.

3:30  Comprehensive Vision Rehabilitation
Mary Lou Jackson, MD*
Course Level: Intermediate

Synopsis & Educational Value: Course will outline critical elements of comprehensive vision rehabilitation and which patients might benefit from referral. Environmental modifications and various tools can be offered to patients such as iPads and eReaders, and these are very important in allowing patients to continue to do tasks that are important to them. Vision rehabilitation supports independence, adjustment to vision loss, patient safety, and continued participation in activities despite vision loss.

Objectives: Attendees will be able to discern which patients might benefit from vision rehab and appreciate the 5 elements that are addressed in comprehensive vision rehabilitation.

*Denotes financial interest; see Financial Interest Index for full listing
Session B
8:00 AM–4:30 PM Room 157ABC

8:00 AM Update on Femtosecond Cataract Surgery
Eric D. Donnenfeld, MD*
Course Level: Intermediate
Synopsis & Educational Value: Course will provide an overview of femtosecond laser-assisted cataract surgery. Surgical techniques, patient selection, and outcomes will be discussed.
Objectives: Attendees will be able to list advantages of femtosecond laser-assisted surgery and understand the differences between it and conventional phacoemulsification.

9:15 Axial Length Biometry and Intraocular Lens Calculations
Robin R. Vann, MD*
Course Level: Intermediate
Synopsis & Educational Value: Course will discuss the principles of A-scan and optical biometry through lecture and slides. A correlation between keratometry, refractometry, and axial length will be explained, as well as tips for obtaining accurate axial length measurements.
Objectives: Attendees will discuss the principals of A-scan and optical biometry and list ways to obtain accurate axial length measurements.

10:30 Drugged Out: Medications Used in Cataract Surgery
Vasudha A. Panday, MD
Course Level: Intermediate
Synopsis & Educational Value: Course will discuss medications used in cataract surgery. Medications in all aspects of surgery, from preop to postop, as well as anesthetics, will be reviewed.
Objectives: Attendee will identify the spectrum and variety of medications used in cataract surgery as well as the potential risks and benefits of these medications.

1:00 PM The Red Eye
S. Akbar Hasan, MD
Course Level: Intermediate
Synopsis & Educational Value: Course will discuss common, and not-so-common causes of red eye. Discussions will include signs, symptoms, diagnosis, and treatment options.
Objectives: Attendees will be able to recognize common causes of red eye, discuss anatomical changes leading to red eyes, and list various treatment options for red eye.

2:15 What’s New in Cataract Surgery?
Gerard D’Aversa, MD
Course Level: Intermediate
Synopsis & Educational Value: Course will describe and discuss the modern technology used in cataract surgery. Discussions will include the advantages of using the femtosecond laser, intraoperative aberrometry to improve refractive results, and the various types of presbyopia-correcting IOLs used to optimize visual results.
Objectives: Attendees will be able to identify how intraoperative procedures improve refractive results, and describe various IOLs used to optimize visual results.

3:30 Managing Dry-Eye Disease
Francis A. D’Ambrosio, MD
Course Level: Intermediate
Synopsis & Educational Value: Course will discuss the symptoms and systemic diseases associated with dry-eye disease and review the recommended treatments and management options for patients with dry eye.
Objectives: Attendees will be able to recognize the symptoms and diseases associated with dry eye and list treatment available options.

*Denotes financial interest; see Financial Interest Index for full listing.
In less than one minute, can you discern which patients have uncompromised optical paths? **NOW** you can.

The OPD-Scan III shows you, and your patient, a clear image of their optical pathway. 2520 data points provide over 20 wavefront diagnostics in 20 seconds. Combined with the TRS-5100, either rapid refinements or full refractions complete the picture of their total visual system.

In addition, you’ll know:

- Which percentage of your patients will still need a full refraction – and why
- Which patients have night driving issues and may require a second Rx
- Which patients have higher-order aberrations that may not be correctable
- How to successfully elevate the total patient experience

**XFRACHTION: WAVEFRONT OPTIMIZED REFRACTION**

When the OPD-Scan III indicates ‘WF’, only a basic refinement is required – saving 5-7 minutes per patient.
Exhibitor Advisory Board

Mission Statement

The ASCRS•ASOA Exhibitor Advisory Board has been designed to enhance the exhibition, programming, and annual meeting experience for attendees, associations, and industry through communication, education, and networking by establishing a continuous dialog between ASCRS•ASOA and its exhibitors on all matters relating to participation in the annual meeting.

It is the goal of ASCRS•ASOA to be the pre-eminent ophthalmic tradeshow in the industry.

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Accutome Inc.

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Oculus, Inc.

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Practice Flow Solutions
The current exhibiting companies for the 2014 ASCRS•ASOA Symposium and Congress are listed below. ASCRS•ASOA is extremely grateful for the constant dedication and support of our corporate participants as they are the reason that ASCRS•ASOA is able to develop and execute one of the largest and most well-rounded programs each year.

The corporations exhibiting at ASCRS•ASOA represent some of the most innovative and dynamic thinking in ophthalmology, and the products and services they showcase are an important part of the cumulative educational experience.

*New exhibitor for 2014

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- Clarity Medical Systems 962
- Tracey Technologies 1811
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- Glacial Multimedia Inc. 606
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- Eyemaginations 141
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- MedNetwoRx* 2146
- TeleVox 1208

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- Compulink Business Systems, Inc. 955
- Demandforce 409
- Doctorsoft Corporation 1912
- Envision Management & Marketing* 1307*
- Eyemaginations 141
- EyeMD EMR Healthcare Systems, Inc. 2133
- FullMonte Data 270
- Glacial Multimedia Inc. 606
- ifa systems AG 570
- iMedicWare, Inc. 2155
- Integrity Digital Solutions, LLC 2233
- IO Practiceware 271
- JCAHPO 479
- KeyMedical Software, Inc. 167
- M&S Technologies Inc. 1310
- ManagementPlus 1611
- MaximEyes by First Insight 909
- MDoffice, Inc. 221
- Medflow Complete 1173
- Medflow, Inc. 1313
- Modernizing Medicine, Inc. 607
- NextGen Healthcare 2039
- Penn Medical/Informatics Systems 400
- Strong Electronics Co., Ltd (Wuhan) 684
- TTI Medical 707
- Visual Clinic 212*

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- Compulink Business Systems, Inc. 955
- ifa systems AG 570

### Computer Systems
- Compulink Business Systems, Inc. 955
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European Society of Ophthalmology (SOE) 579
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**Financial Services**

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**Glaucoma Pressure**

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| **Excel Optics (P) Limited** | 105 |
| **Freedom Ophthalmic** | 1202 |
| **FullMonte Data** | 270 |
| **HOYA Surgical Optics, Inc.** | 1923 |
| **I-MED Pharma** | 1080 |
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| **Medennium, Inc.** | 478 |
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| **Mediphacos, Ltda** | 2040 |
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| **Fashion Optical Displays** | 380 |
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| **Beaver-Visitec International, Inc.** | 1113 |
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| **Eagle Vision, Inc.** | 902 |
| **FCI Ophthalmics** | 973 |
| **HUAIAN FRIMEN CO., LTD.** | 907 |
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| **Surgistar Inc.** | 1000 |
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<p>| <strong>Abbott Medical Optics</strong> | 732, Suite 2 |
| <strong>Bausch &amp; Lomb</strong> | 1533 |
| <strong>DermaMed Solutions</strong> | 302 |</p>
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- Excelsius Medical Inc.*                             2255
- FullMonte Data                                      270
- Sightpath Medical                                   1273
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**LED Light Source**
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Cambrian Medical Inc. 1207
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Crestpoint Management 1419
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Duckworth & Kent 1419
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Feather Safety Razor Co., Ltd. 277
Freedom Ophthalmic 1202
FullMonte Data 270
Geuder AG 1419
Haag-Streit USA 333
Heidelberg Engineering 1133
HEINE 1839
Howard Instruments, Inc. 1302
HUAIAN FRIMEN CO., LTD. 907
Icare USA 705
i-Optics 2225
IRIDEX 804
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Katalyst Surgical 1917
Katena Products Inc. 363
Keeler Instruments Inc. 700
Kirwan Surgical Products LLC 1505
Lambda - X.S.A.* 2049
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# Product Listing

## Sterilization Equipment

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AccuLens products change patient’s lives. To correct disorders, to the simple such as astigmatic myopia, AccuLens offers a multitude of designs that apply to virtually all visual correction needs from keratoconus, and other corneal disorders. AccuLens is a leader in this area and one of the fastest-growing eye care companies worldwide.

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Phone: 631-722-5988
Email: mssawaya@aol.com
www.nanotearseyedrops.com

Altaire is a privately held cGMP pharmaceutical manufacturer located in eastern Long Island, New York. Altaire’s primary focus is the manufacture of sterile ophthalmic products, including both OTC products and NDA/ANDAs.
American Academy of Ophthalmic Executives
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655 Beach Street
San Francisco, CA 94109
Phone: 415-516-8558
www.aoao.org/aaoe

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Email: aurolab@aurolab.com
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Aurolab is not for profit charitable organization dedicated to the graduation of needless blindness. Started in 1992, Aurolab manufactures IOLs, sutures, pharmaceuticals, most of the products are CE marked. Aurolab currently exports to over 130 countries worldwide.

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Aurora Surgical is a one stop shop for your hand held ophthalmic surgical instruments needs. Products include Titanium, Stainless Steel and Disposable instruments, as well as, Diamond, Black Diamond, Sapphire, Stainless Steel Knives, Sterilization Trays and Micro Loupes.

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The Academy offers a variety of educational products, as well as online resources including the ONE® Network, the Resident Hub™, the Academy Online Community and EyeSmart®.

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Westervile, OH 43082  
Phone: 800-428-2847  
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www.cophthalmic.com  

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<tr>
<th>Company Name</th>
<th>Booth Number</th>
<th>Address</th>
<th>Contact Details</th>
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<tbody>
<tr>
<td>Peschke Meditrade GmbH</td>
<td>201</td>
<td>Boesch 65, Hunenberg, 06331</td>
<td>Phone: 41-41-783-11-45 Email: <a href="mailto:yv@peschkemed.ch">yv@peschkemed.ch</a> <a href="http://www.peschkemed.ch">www.peschkemed.ch</a></td>
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<tr>
<td>Pharmacos Biopharmaceutical Services, LLC*</td>
<td>213</td>
<td>8105 Irvine Center Dr. Suite 900, Irvine, CA 92618 United States</td>
<td>Phone: 9493573375 Email: <a href="mailto:info@pharmacos.com">info@pharmacos.com</a> <a href="http://www.pharmacos.com">www.pharmacos.com</a></td>
</tr>
<tr>
<td>PhysiOL S.A.</td>
<td>1817</td>
<td>Liege Science Park, 4, Allee des Noisetiers, Angleur, 04031 BELGIUM</td>
<td>Phone: 0032-4-361-05-49 Email: <a href="mailto:info@physiol.be">info@physiol.be</a> <a href="http://www.physiol.eu">www.physiol.eu</a></td>
</tr>
<tr>
<td>PinPoint Optics*</td>
<td>1707</td>
<td>10 Stran Road, Millford, CT 06461 Phone: 203-874-0448 Email: <a href="mailto:jkelman57@aol.com">jkelman57@aol.com</a> <a href="http://www.pinpointoptics.net">www.pinpointoptics.net</a></td>
<td></td>
</tr>
<tr>
<td>Plusoptix*</td>
<td>211</td>
<td>2850 Paces Ferry Road Suite 440, Atlanta, GA 30339 United States</td>
<td>Phone: 8004886436</td>
</tr>
<tr>
<td>Practice Flow Solutions</td>
<td>1409</td>
<td>7742 Spalding Drive, Suite 368 Norcross, GA 30092 Phone: 678-935-7911 <a href="http://www.practiceflowsolutions.com">www.practiceflowsolutions.com</a></td>
<td></td>
</tr>
<tr>
<td>Precision Vision, Inc.</td>
<td>1507</td>
<td>944 First Street, La Salle, IL 61301 Phone: 800-772-9211 Email: <a href="mailto:info@precision-vision.com">info@precision-vision.com</a> <a href="http://www.precision-vision.com">www.precision-vision.com</a></td>
<td></td>
</tr>
<tr>
<td>Prescott’s Inc.</td>
<td>601, 1400</td>
<td>18940 Emigrant Trail E, PO Box 609 Monument, CO 80132 Phone: 719-481-3353 <a href="http://www.surgicalmicroscopes.com">www.surgicalmicroscopes.com</a></td>
<td></td>
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<td>PRN Physician Recommended Nutriceuticals</td>
<td>801</td>
<td>502 W. Germantown Pike, Suite 610 Plymouth Meeting, PA 19462 Phone: 800-900-2303 <a href="http://www.proomegahealth.com">www.proomegahealth.com</a></td>
<td></td>
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<tr>
<td>PRO-PAKS</td>
<td>1802</td>
<td>430 Smith Street, Middletown, CT 06457 Phone: 203-815-1180 Email: <a href="mailto:info@pro-paks.com">info@pro-paks.com</a> <a href="http://www.pro-paks.com">www.pro-paks.com</a></td>
<td></td>
</tr>
<tr>
<td>PST</td>
<td>1500</td>
<td>1520 East Street, Pittsfield, MA 01201 Phone: 413-447-8051 Email: <a href="mailto:psc@bcn.net">psc@bcn.net</a> <a href="http://www.pst-corp.com">www.pst-corp.com</a></td>
<td></td>
</tr>
<tr>
<td>PST</td>
<td>801</td>
<td>502 W. Germantown Pike, Suite 610 Plymouth Meeting, PA 19462 Phone: 800-900-2303 <a href="http://www.proomegahealth.com">www.proomegahealth.com</a></td>
<td></td>
</tr>
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Quantel Medical
Booth: 233
601 Haggerty Lane
Bozeman, MT 59715
Phone: 406-586-6835
Email: promos@quantelusa.com
www.quantel-medical.com

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www.RPSdetectors.com

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UNITED KINGDOM
Phone: 44-0-1273-205-401
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Email: sdeb@sdeb.org
www.sdeb.org

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www.sightlife.org
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www.sightpathmedical.com

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www.healio.com


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Phone: 516-354-0900
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<tr>
<td><strong>SOOFT Italia S.p.a</strong></td>
<td>403</td>
<td>Contrada Molino, 17 Montegiorgio, 63025 ITALY</td>
<td>39-0734-964-096</td>
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<td><a href="http://www.sooft.it">www.sooft.it</a></td>
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<tr>
<td><strong>Southern Eye Bank</strong></td>
<td>116</td>
<td>PO Box 11327 New Orleans, LA 70181</td>
<td>504-891-3937</td>
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<td><a href="http://www.southerneyebank.com">www.southerneyebank.com</a></td>
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<td><strong>Speedway Surgical Co.</strong></td>
<td>301</td>
<td>1586/31, M. J. Building, Bhagirath Palace Delhi, 110006 INDIA</td>
<td>91-11-2386-6379</td>
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<td><a href="http://www.speedwaydelhi.com">www.speedwaydelhi.com</a></td>
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<td>210</td>
<td>155 Chestnut Ridge Road, Ft 1 Montvale, NJ 07645</td>
<td>201-802-1300</td>
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<td><a href="http://www.srssoft.com">www.srssoft.com</a></td>
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<td><strong>STAAR Surgical Co.</strong></td>
<td>613</td>
<td>1911 Walker Avenue Monterey, CA 91016</td>
<td>626-303-7900</td>
<td><a href="mailto:customerservice@staar.com">customerservice@staar.com</a></td>
<td><a href="http://www.staar.com">www.staar.com</a></td>
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<td><strong>Super I-Care</strong></td>
<td>482</td>
<td>1311 Brooks Drive, Suite J Baldwin Park, CA 91706</td>
<td>626-442-8238</td>
<td></td>
<td><a href="http://www.super-i-care.com">www.super-i-care.com</a></td>
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<td><strong>Surgical Eye Expeditions International</strong></td>
<td>119</td>
<td>6950 Hollister Avenue, Suite 250 Goleta, CA 93117</td>
<td>805-963-3303</td>
<td></td>
<td><a href="http://www.seeintl.org">www.seeintl.org</a></td>
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<td>Surgical Eye Expeditions (SEE) International provides sustainable medical, surgical and educational services through volunteer ophthalmic surgeons with objectives of restoring sight and preventing blindness to disadvantaged individuals worldwide.</td>
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<td><strong>Surgilum</strong></td>
<td>1608</td>
<td>1717 Shipyard Boulevard, Suit 140 Wilmington, NC 28403</td>
<td>910-202-2202</td>
<td></td>
<td><a href="http://www.mindskidlabs.com">www.mindskidlabs.com</a></td>
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<td>MindSkid Labs is a virtual medical device company. MindSkid carries out research and development of innovative products for the medical industry.</td>
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<tr>
<td><strong>Surgistar Inc.</strong></td>
<td>1000</td>
<td>820 Corridor Park Boulevard Knoxville, TN 37932</td>
<td>865-671-4300</td>
<td><a href="mailto:customerservice@surgistar.com">customerservice@surgistar.com</a></td>
<td><a href="http://www.surgistar.com">www.surgistar.com</a></td>
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<tr>
<td><strong>Surgistar Inc.</strong></td>
<td>2149</td>
<td>4520 East-West Highway, Suite 30 Bethesda, MD 20814</td>
<td>240- 223-3614</td>
<td></td>
<td><a href="http://www.surgistar.com">www.surgistar.com</a></td>
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<td>Surgistar is a global biopharmaceutical company focused on the development and commercialization of medicines based on prostones, to meet the major unmet medical needs of patients on a global basis.</td>
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TBI/Tissue Banks International
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Phone: 800-858-2020
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- Lobby
- Finishing Kitchen
- Green Room
- Lobby
- The Westin Boston Waterfront

Exhibit Hall B
- Pre-function (19,340 sq ft)
- Low Roof (Outside)

Exhibit Hall C
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Important Product Information for the CENTURION® Vision System

Caution: Federal (USA) law restricts this device to sale by, or on the order of, a physician.

As part of a properly maintained surgical environment, it is recommended that a backup IOL Injector be made available in the event the AutoSert® IOL Injector Handpiece does not perform as expected.

Indication: The CENTURION® Vision system is indicated for emulsification, separation, irrigation, and aspiration of cataracts, residual cortical material and lens epithelial cells, vitreous aspiration and cutting associated with anterior vitrectomy, bipolar coagulation, and intraocular lens injection. The AutoSert® IOL Injector Handpiece is intended to deliver qualified AcrySof® intraocular lenses into the eye following cataract removal.

The AutoSert® IOL Injector Handpiece achieves the functionality of injection of intraocular lenses. The AutoSert® IOL Injector Handpiece is indicated for use with the AcrySof® lenses SN6OWF, SN6AD1, SN6AT3 through SN6AT9, as well as approved AcrySof® lenses that are specifically indicated for use with this inserter, as indicated in the approved labeling of those lenses.

Warnings: Appropriate use of CENTURION® Vision System parameters and accessories is important for successful procedures. Use of low vacuum limits, low flow rates, low bottle heights, high power settings, extended power usage, power usage during occlusion conditions (beeping tones), failure to sufficiently aspirate viscoelastic prior to using power, excessively tight incisions, and combinations of the above actions may result in significant temperature increases at incision site and inside the eye, and lead to severe thermal eye tissue damage.

Good clinical practice dictates the testing for adequate irrigation and aspiration flow prior to entering the eye. Ensure that tubings are not occluded or pinched during any phase of operation.

The consumables used in conjunction with ALCON® instrument products constitute a complete surgical system. Use of consumables and handpieces other than those manufactured by Alcon may affect system performance and create potential hazards.

AEs/Complications: Inadvertent actuation of Prime or Tune while a handpiece is in the eye can create a hazardous condition that may result in patient injury. During any ultrasonic procedure, metal particles may result from inadvertent touching of the ultrasonic tip with a second instrument. Another potential source of metal particles resulting from any ultrasonic handpiece may be the result of ultrasonic energy causing micro abrasion of the ultrasonic tip.

ATTENTION: Refer to the Directions for Use and Operator’s Manual for a complete listing of indications, warnings, cautions and notes.
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April 25-28, 2014 | Boston, MA

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Saturday, April 26 – Monday, April 28, 2014
9:00 am – 5:00 pm

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- CENTURION® Vision System, Changing the Game in Fluidics
- Tips on Managing Astigmatism at the Time of Cataract Surgery
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Please note that attendance at this meeting is limited to healthcare professionals.

As a part of Alcon’s commitment to complying with relevant legal requirements, we regret that we cannot provide meals for the healthcare professionals licensed in Vermont.

In addition, we may be unable to provide meals for healthcare professionals affiliated with state or federal institutions. If you are licensed in Vermont, affiliated with a state or federal institution, or are otherwise unable to accept a meal, other options may be available.

These programs are not affiliated with the ASCRS•ASOA Symposium & Congress.

Please refer to the adjacent page for important product information about the CENTURION® Vision System.

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Importantly, the WaveLight® Excimer Laser Systems have not been studied for patients with:

- progressive myopia, hyperopia, astigmatism and/or mixed astigmatism, ocular disease, previous corneal or intraocular surgery, or trauma in the ablation zone;
- corneal abnormalities including, but not limited to, scars, irregular astigmatism and central corneal thickness < 500 microns;
- residual corneal thickness after ablation of less than 250 microns due to the increased risk for corneal ectasia;
- anisometropia; or
- a poor quality preoperative topography map that precludes topography-guided LASIK treatment.

Topography-guided LASIK procedures require accurate and reliable data from the wavefront examination. Every step of every wavefront measurement should be based on the asphericity of the wavefront-guided LASIK procedure must be validated by the user. Inaccurate or unreliable data from the wavefront examination will lead to inaccurate treatment.

Topography-guided LASIK requires preoperative topographic maps of sufficient quality to use for planning a topography-guided LASIK treatment. Poor quality topography maps may affect the accuracy of the topography-guided LASIK treatment and may result in poor vision after topography-guided LASIK.

Precautions:

- the safety and effectiveness of the WaveLight® Excimer Laser Systems have not been established for patients with:
  - progressive myopia, hyperopia, astigmatism and/or mixed astigmatism, ocular disease, previous corneal or intraocular surgery, or trauma in the ablation zone;
  - corneal abnormalities including, but not limited to, scars, irregular astigmatism and central corneal thickness < 500 microns;
  - residual corneal thickness after ablation of less than 250 microns due to the increased risk for corneal ectasia;
  - pupillary size below 7.0 mm after mydriasis where applied for wavefront-guided ablation planning;
  - history of glaucoma or ocular hypertension of > 21 mmHg;
  - taking the medication sulfonamide suscitate (metres®);
  - normal, lens and/or vitreous opacities including, but not limited to, cataract;
  - iridial problems including, but not limited to, uveitis and previous iridial surgery compromising open eye tracking;
  - taking medications likely to affect wound healing including (but not limited to) anticoagulants;

In addition, safety and effectiveness of the WaveLight® Excimer Laser System have not been established for:

- treatments with an optical zone < 6.0 mm or ≥ 6.5 mm in diameter; or
- an ablation zone > 9.0 mm in diameter; or
- wavefront-guided treatment targets different from emmetropia (prisms) in which the wavefront calculated defocus (spherical terms) has been adjusted;

In the WaveLight® Excimer Laser System clinical studies, there were few subjects with cylinder amounts: ≥ 4.0 and ≤ 4.0. Not all complications, adverse events, and levels of effectiveness may have been determined for this population.

Pupil sizes should be evaluated under mesopic illumination conditions. Effects of treatment on vision under poor illumination cannot be predicted prior to surgery.

Adverse Events and Complications

Myopia: In the myopia clinical study, 0.2% (2/876) of the eyes had a lost, misplaced, or misaligned flap reported at the 1 month examination.

The following complications were reported 6 months after LASIK: 0.0% (7/818) had ghosting or double images in the operative eye; 0.1% (8/818) of the eyes had a corneal epithelial defect.

Hyperopia: In the hyperopia clinical study, 0.4% (12/276) of the eyes had a retinal detachment or retinal vascular accident reported at the 3 month examination.

The following complications were reported 6 months after LASIK: 0.8% (2/262) of the eyes had a corneal epithelial defect and 0.8% (2/262) had any epithelial in the interface.

MIXED ASTIGMATISM: In the mixed astigmatism clinical study, two adverse events were reported. The first event involved a patient who postoperatively was subject to blunt trauma to the treatment eye 6 days after surgery. The patient was found to have an intact globe with no rupture, inflammation or any disorganization of the flap. The UCVA was decreased due to this event. The second event involved the treatment of an incorrect axis of astigmatism. The axis was treated at 60 degrees instead of 160 degrees.

The following complications were reported 6 months after LASIK: 1.8% (2/111) of the eyes had ghosting or double images in the operative eye.

Wavefront-Guided Myopia: No adverse events occurred during the postoperative period of the wavefront-guided LASIK procedures. In the Control Cohort (traditional LASIK treatment), one subject undergoing traditional LASIK had the axis of astigmatism programmed as 115 degrees instead of the actual 155 degree axis. This led to cylinder in the left eye.

The following complications were reported 6 months after wavefront-guided LASIK in the Study Cohort (1.2% (2/166) of the eyes had a corneal epithelial defect. 1.2% (2/166) had foreign body sensation, and 0.6% (1/166) had pain. No complications were reported in the Control Cohort.

Topography-Guided Myopia: There were six adverse events reported in the topography-guided myopia study. Four of the eyes experienced transient or temporary decreases in vision prior to the final 3-12 month follow-up, all of which were resolved by the final follow-up visit. One subject suffered from decreased vision in the treated eye, following blunt force trauma 4 days after surgery. One subject experienced retinal detachment, which was concluded to be unrelated to the surgical procedure.

Clinical Data

Myopia: The myopia clinical study included 901 eyes treated, of which 813 of 866 eligible eyes were followed for 12 months. Accountability at 3 months was 99.8%, at 6 months was 99.6%, and at 12 months was 92.4%. Of the 247 eyes that were eligible for the UCVA analysis at the 3-month stability time point, 99.8% were corrected to 20/40 or better, and 93.7% were corrected to 20/20 or better. Of the 166 eyes in the Control Cohort eligible for the UCVA analysis of effectiveness at the 6-month stability time point, 99.4% were corrected to 20/40 or better, and 92.3% were corrected to 20/20.

In the Study Cohort, accountability at 1 month was 96.8%, at 3 months was 96.8%, and at 6 months was 95.9%. In the Control Cohort, accountability at 1 month was 94.6%, at 3 months was 94.6%, and at 6 months was 92.2%.

Of the 166 eyes in the Study Cohort that were eligible for the UCVA analysis of effectiveness at the 6-month stability time point, 99.3% were corrected to 20/40 or better, and 92.3% were corrected to 20/20.

Long term risks of wavefront-guided LASIK for myopia with and without astigmatism have not been studied beyond 6 months.

Topography-Guided Myopia: The topography-guided myopia clinical study included 249 eyes treated, of which 230 eyes were followed for 12 months. Accountability at 3 months was 99.2%, at 6 months was 99.6%, and at 12 months was 92.4%. Of the 247 eyes that were eligible for the UCVA analysis at the 3-month stability time point, 99.8% were corrected to 20/40 or better, and 93.7% were corrected to 20/20 or better. Subjects who responded to a patient satisfaction questionnaire before and after LASIK reported the following visual symptoms as a “moderate” or “severe” level at least 1% higher at 3 months post-treatment than at baseline: light sensitivity (47.6% vs. 37.2% at baseline); halos (45.0% vs. 36.6% at baseline); visual fluctuations (43.0% vs. 32.1% at baseline); and halos (42.6% vs. 37.0% at baseline).

Long term risks of wavefront-guided LASIK for myopia with and without astigmatism have not been studied beyond 6 months.

Information for Patients:

- Prior to undergoing LASIK surgery with a WaveLight® Excimer Laser System, prospective patients must receive a copy of the relevant Patient Information Booklet, and must be informed of the alternatives for correcting their vision, including (but not limited to) eyeglasses, contact lenses, photorefractive keratectomy, and other refractive surgeries.

Attention: Please refer to current WaveLight® Excimer Laser System Procedure Manual for a complete listing of the indications, complications, warnings, precautions, and side effects.

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Ethics of Femtosecond Laser Cataract Surgery

Sunday, April 27, 2014
4:45 - 6:00 PM Program
Course 27-500 – Room 205ABC

Program Chair
Richard S. Hoffman, MD

Panelists
John D. Banja, PhD
Donald N. Serafano, MD
Michael Snyder, MD
Abhay R. Vasavada, MS, FRCS
Sonia H. Yoo, MD

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Join us at the Abbott Medical Optics Speakers Forum in Booth 732 at the 2014 ASCRS in Boston.

VISIT BOOTH 732
**SATURDAY, APRIL 26**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Facilitators</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 am – 10:45 am</td>
<td>Innovative Technologies and Excellent Outcomes in Laser Cataract Surgery</td>
<td>Johnny Gayton MD – Moderator, William Culbertson MD, Burkhard Dick MD, PhD</td>
</tr>
<tr>
<td>11:00 am – 11:45 am</td>
<td>iDesign Dx System: A Science Story of Innovation</td>
<td>Dan Neal PhD – Moderator, Stephen Coleman MD, Sandy Feldman MD</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>2:00 pm – 2:45 pm</td>
<td>Optimizing Premium IOL Outcomes with Laser Cataract Surgery</td>
<td>Mark Blecher MD – Moderator, Subba Gollamudi MD, Keith Walter MD</td>
</tr>
</tbody>
</table>

**SUNDAY, APRIL 27**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Facilitators</th>
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</thead>
<tbody>
<tr>
<td>10:00 am – 10:45 am</td>
<td>Deliver the Best Refractive Outcomes to Build a Successful Business</td>
<td>Steven Schallhorn MD – Moderator, Derek Cunningham OD, FAAO, James Loden MD</td>
</tr>
<tr>
<td>11:00 am – 11:45 am</td>
<td>Astigmatism Correction and Outcomes with Toric IOLs</td>
<td>Kevin Waltz MD – Moderator, Ike Ahmed MD, Tal Raviv MD</td>
</tr>
<tr>
<td>12:00 pm – 12:45 pm</td>
<td>Clinical Pearls for Success with Premium IOLs</td>
<td>Kerry Assil MD – Moderator, Rex Hamilton MD, Jeff Martin MD</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Facilitators</th>
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</thead>
<tbody>
<tr>
<td>2:00 pm – 2:45 pm</td>
<td>Customized Premium Lens Outcomes Combined with a New Preloaded Delivery System</td>
<td>Doug Koch MD – Moderator, Oliver Findl MD</td>
</tr>
<tr>
<td>3:00 pm – 3:45 pm</td>
<td>Routine and Challenging Cases in Laser Cataract Surgery</td>
<td>Shachar Tauber MD – Moderator, Juan Batlle MD, Barry Seibel MD</td>
</tr>
</tbody>
</table>

**MONDAY, APRIL 28**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Facilitators</th>
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</thead>
<tbody>
<tr>
<td>10:00 am – 10:45 am</td>
<td>Practice Integration and Patient Adoption Pearls for Laser Cataract Surgery</td>
<td>George Waring IV MD – Moderator, James Khodabakhsh MD, Paul Mann MD</td>
</tr>
<tr>
<td>11:00 am – 11:45 am</td>
<td>Premium Lens Design for High Quality Visual Outcomes with a New Preloaded Delivery System</td>
<td>David Hardten MD – Moderator, Daniel Black MD, Daniel Chang MD</td>
</tr>
</tbody>
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<table>
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Facilitators</th>
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</thead>
<tbody>
<tr>
<td>12:00 pm – 12:45 pm</td>
<td>Phaco Techniques and Fluidics Measurement in Laser Cataract Surgery</td>
<td>Jason Jones MD – Moderator, Robert Rivera MD, William Wiley MD</td>
</tr>
</tbody>
</table>

Speakers subject to change. Booth presentations are not affiliated with the official program of the meeting.
EIDOLON Photo-Bluminator
Ophthalmic Illuminator
for the Apple iPhone 5/5s

View and photograph the cornea with blue LED illumination and fluorescein

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- Slips over the iPhone 5/5s to create a close-up digital imaging system
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- Effortlessly email or store results directly in the cloud
- US Patent No. 6,547,394 and other Patents Pending
Friday, April 25

**Refractive Technology Symposium**

*Boston Convention and Exhibition Center*

**EyeWorld Theatre, Hall C**

- 4:00 pm - 4:30 pm – Registration & Refreshments
- 4:30 pm - 5:30 pm – Symposium
  
  **Moderator:** Stephen Slade, MD

Saturday, April 26

**Live Cataract Surgery**

*Westin Convention Center, Grand Ballroom*

- 6:30 am - 7:00 am – Registration & Breakfast
- 7:00 am - 9:00 am – Live Surgery
  
  Telecast live from Main Line Surgery Center in Bala Cynwyd, PA
  
  **Moderator:** Donald N. Serafano, MD

**Dealing with the Unexpected: Complex Cataract Surgery in the Era of CENTURION® Vision System**

*Boston Convention Center and Exhibition Center*

**EyeWorld Theatre, Hall C**

- 4:45 pm - 5:15 pm – Registration & Refreshments
- 5:15 pm - 6:30 pm – Symposium
  
  **Moderator:** Richard Lindstrom, MD

Sunday, April 27

**Quality Outcomes for Today’s Cataract Patient**

*Boston Convention Center and Exhibition Center*

**EyeWorld Theatre, Hall C**

- 11:30 am - 12:00 pm – Registration & Lunch
- 12:00 pm - 1:00 pm – Symposium
  
  **Moderator:** Kerry Solomon, MD

Register at: [http://www.eyeworld.org/meetings/alcon](http://www.eyeworld.org/meetings/alcon)

Please note that attendance at this meeting is limited to healthcare professionals.

As a part of Alcon’s commitment to complying with relevant legal requirements, we regret that we cannot provide meals for the healthcare professionals licensed in Vermont.

In addition, we may be unable to provide meals for healthcare professionals affiliated with state or federal institutions. If you are licensed in Vermont, affiliated with a state or federal institution, or are otherwise unable to accept a meal, other options may be available.

These programs are not affiliated with the ASCRS-ASOA Symposium & Congress.

Please refer to the adjacent page for important product information about the CENTURION® Vision System.

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Important Product Information for the CENTURION® Vision System

**Caution:** Federal (USA) law restricts this device to sale by, or on the order of, a physician.

As part of a properly maintained surgical environment, it is recommended that a backup IOL Injector be made available in the event the AutoSert® IOL Injector Handpiece does not perform as expected.

**Indication:** The CENTURION® Vision system is indicated for emulsification, separation, irrigation, and aspiration of cataracts, residual cortical material and lens epithelial cells, vitreous aspiration and cutting associated with anterior vitrectomy, bipolar coagulation, and intraocular lens injection. The AutoSert® IOL Injector Handpiece is intended to deliver qualified AcrySof® intraocular lenses into the eye following cataract removal.

The AutoSert® IOL Injector Handpiece achieves the functionality of injection of intraocular lenses. The AutoSert® IOL Injector Handpiece is indicated for use with the AcrySof® lenses SN6OWF, SN6AD1, SN6AT3 through SN6AT9, as well as approved AcrySof® lenses that are specifically indicated for use with this inserter, as indicated in the approved labeling of those lenses.

**Warnings:** Appropriate use of CENTURION® Vision System parameters and accessories is important for successful procedures. Use of low vacuum limits, low flow rates, low bottle heights, high power settings, extended power usage, power usage during occlusion conditions (beeping tones), failure to sufficiently aspirate viscoelastic prior to using power, excessively tight incisions, and combinations of the above actions may result in significant temperature increases at incision site and inside the eye, and lead to severe thermal eye tissue damage.

Good clinical practice dictates the testing for adequate irrigation and aspiration flow prior to entering the eye. Ensure that tubings are not occluded or pinched during any phase of operation.

The consumables used in conjunction with ALCON® instrument products constitute a complete surgical system. Use of consumables and handpieces other than those manufactured by Alcon may affect system performance and create potential hazards.

**AEs/Complications:** Inadvertent actuation of Prime or Tune while a handpiece is in the eye can create a hazardous condition that may result in patient injury. During any ultrasonic procedure, metal particles may result from inadvertent touching of the ultrasonic tip with a second instrument. Another potential source of metal particles resulting from any ultrasonic handpiece may be the result of ultrasonic energy causing micro abrasion of the ultrasonic tip.

**ATTENTION:** Refer to the Directions for Use and Operator’s Manual for a complete listing of indications, warnings, cautions and notes.
2-100T  $45
Braunstein Fixed Caliper

3-192  $150
Lum LRI Gravity Axis Marker

4-0331T  $250
Utrata Capsulorhexis Forceps

4-0541T  $150
Castroviejo Collibri
Corneal Forceps

5-032  $80
Sinskey Hook

6-322/6-0531
Universal Three-Step Diamond Knife with preset depth settings

7-065  $100
Rosen Phaco Chopper

8-031T  $190
Barraquer Needle Holder

14-040T  $150
Lieberman Temporal Speculum

11-052S  $170
Vannas Capsulotomy Scissors

15-129-0.3  $90
Simcoe I/A Cannula, 23/23G

The price is valid only for purchasing two or more instruments of the same model.
PLAN YOUR HOTEL ACCOMMODATIONS EARLY
San Diego 2015 Hotel Deals Become Available Friday, April 25, 2014

Online Reservations
www.ascrs.org/gethousing

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Stop by the onsite housing desk for hotel assistance, now or for 2015.
Attendees: BCEC North Lobby
Exhibitors: BCEC Level 0, Exhibit Hall AB Foyer

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**ZEISS Cataract Suite:**
Maximizing Your Toric IOL Practice

11:30 AM – 12:00 PM Registration and Lunch
12:00 – 1:00 PM Program

Join our panel of experts as they discuss how the ZEISS Cataract Suite substantially improves workflow from the office through to the OR. Learn how the IOLMaster® 500, CALLISTO eye® and OPMI LUMERA® 700 empower surgeons to achieve the expert outcomes patients expect.

**Moderator:** Roger F. Steinert, MD
Professor and Director
The Gavin Herbert Eye Institute
UCI School of Medicine

**Faculty:**
Mitchell A. Jackson, MD
Founder/Director
Jackson Eye

Jonathan D. Solomon, MD
Surgical/Refractive Director
Solomon Eye Associates

Liem Trinh, MD
Ophthalmic Surgeon
Liem Trinh
32nd Film Festival Awards
Boston Convention & Exhibition Center

Who will be the People’s Choice Award Winner?

Your last chance to vote is Sunday, April 27, 5:00 PM.
View the films at the meeting kiosks or online.

www.annualmeeting.ascrs.org

Monday, April 28
Grand Ballroom

Reception
4:30–5:00 PM

Awards Ceremony
5:00–6:30 PM

Tuesday, April 29
Room 150

Final Screening
8:00 AM–4:30 PM
Visit the Film Festival Theatre to watch the award-winning entries.

Opening General Session
Saturday, April 26
10:00 AM–12:00 PM
Binkhorst Lecture
Microinvasive Glaucoma Surgery: An Idea Whose Time Has Come
Ike K. Ahmed, MD

Science and Medicine Lecture
Sunday, April 27
10:00–11:00 AM
Creation: The History and Future of Life, DNA and Genes
Adam Rutherford, PhD

Innovators Session
Monday, April 28
10:00–11:30 AM
2014 Charles D. Kelman Innovator’s Lecture
Something Borrowed, Something New: Improved Accuracy for IOL Power Selection
Warren E. Hill, MD, FACS

Discover the latest surgical techniques and technologies for the anterior segment specialist.

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AMERICAN SOCIETY OF CATARACT AND REFRACTIVE SURGERY
Sen. Rand Paul, MD (R-KY), an ophthalmologist, serves on the Senate Health, Education, Labor and Pensions Committee and will share his perspective on healthcare policy as a physician serving in Congress. He is well-known as an independent voice on many issues and is an original co-sponsor of legislation to provide a viable Medicare private contracting option and to delay the implementation of ICD-10. He is also a co-sponsor of legislation to repeal the Independent Payment Advisory Board. Prior to serving in the Senate, he owned his own ophthalmology practice and performed surgery for 18 years. He is the founder of the Southern Kentucky Lions Eye Clinic, an organization that provides eye exams and surgery to needy families and individuals.
Register Onsite!

Saturday, April 26, 2014
7:00 – 9:30 AM
Boston Convention and Exhibition Center

CME credit is not available for Corporate Mornings programs.

www.eyeworld.org
### SCHEDULE AT A GLANCE

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<tr>
<th>Event</th>
<th>Description</th>
<th>Venue</th>
<th>Registration</th>
<th>Program</th>
<th>Hosts/Leaders</th>
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</thead>
<tbody>
<tr>
<td><strong>Alcon Laboratories Inc.</strong>&lt;br&gt;Live Surgery in High Definition</td>
<td>Westin Boston Waterfront – Grand Ballroom (adjacent to the Boston Convention &amp; Exhibition Center)</td>
<td></td>
<td>6:30 – 7:00 AM</td>
<td>7:00 – 9:30 AM</td>
<td>Richard Tipperman, MD&lt;br&gt;Michael Jones, MD&lt;br&gt;Richard Mackool, MD&lt;br&gt;Lisa Cibik, MD&lt;br&gt;RJ Mackool, MD&lt;br&gt;Donald N. Serafano, MD</td>
</tr>
<tr>
<td><strong>Optovue Inc.</strong>&lt;br&gt;The New Avanti OCT for the Cataract/Refractive Surgeon</td>
<td>Boston Convention &amp; Exhibition Center – Room 258 A</td>
<td>7:30 – 8:00 AM</td>
<td>8:00 – 9:00 AM</td>
<td>Farrell “Toby” Tyson, MD, FACS&lt;br&gt;A. John Kanellopoulos, MD</td>
<td></td>
</tr>
<tr>
<td><strong>OCULUS Inc.</strong>&lt;br&gt;Optimizing the Outcome of Cataract Surgery with the OCULUS Pentacam</td>
<td>Boston Convention &amp; Exhibition Center – Room 257 AB</td>
<td>8:00 – 8:30 AM</td>
<td>8:30 – 9:30 AM</td>
<td>H. John Shammas, MD&lt;br&gt;Thomas Kohnen, MD</td>
<td></td>
</tr>
<tr>
<td><strong>TearScience Inc.</strong>&lt;br&gt;Improving Outcomes and Patient Satisfaction</td>
<td>Boston Convention &amp; Exhibition Center – Room 259 AB</td>
<td>8:00 – 8:30 AM</td>
<td>8:30 – 9:30 AM</td>
<td>Eric D. Donnenfeld, MD</td>
<td>Edward J. Holland, MD&lt;br&gt;Stephen S. Lane, MD</td>
</tr>
</tbody>
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We gratefully acknowledge the following companies for their participation in corporate sponsorships at the 2014 ASCRS•ASOA Symposium and Congress:

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ASCRS Acknowledges the Generous Contributions by the Following Industry Partners to Support the Skills Transfer Sessions:

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Frontier Vision
Gulden Ophthalmics
Katena Products, Inc.
MST – MicroSurgical Technology
Mastel Precision
Oasis Medical, Inc.
Rhein Medical, Inc.
Rumex International Co.
SIS Magnum Diamond
Hot Topics in Cataract Surgery: The Femto-Cataract Procedure

Westin Boston Waterfront Hotel
– Grand Ballroom (concourse level)
425 Summer Street – adjacent to the
Boston Convention and Exhibition Center
(Skybridge located on level 2 of convention center)

11:30 AM – 12:00 PM  Registration and Lunch
12:00 – 1:00 PM  Program
Register Onsite!
Sunday, April 27, 2014

Managing Complex Cataracts –
Approaches to Handling
Challenging Cases with Innovative
Techniques and Technologies

Westin Boston Waterfront Hotel
– Grand Ballroom (concourse level)
425 Summer Street – adjacent to the
Boston Convention and Exhibition Center
(Skybridge located on level 2 of convention center)

4:45 – 5:15 PM Registration and Reception
5:15 – 6:30 PM Program

Program Chair  R. Bruce Wallace, MD
Faculty  Johnny L. Gayton, MD
         Douglas A. Katsev, MD
         Robert J. Weinstock, MD
         Jeffrey Whitman, MD

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• Responsive design to work across all devices

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ASOA CELEBRATION
SUNDAY, APRIL 27, 2014, 8:00 PM–12:00 AM

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PRIVATE EVENT—ASCRS-ASOA BADGE REQUIRED FOR ADMISSION

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SYMPOSIUM & CONGRESS
2015
SAN DIEGO
APRIL 17–21

THE ONLY U.S. MEETING DEDICATED TO THE ANTERIOR SEGMENT SPECIALIST

THE LEADING PRACTICE MANAGEMENT PROGRAM IN OPHTHALMOLOGY

HOUSING OPENS
FRIDAY, APRIL 25, 2014

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All ASCRS and ASOA programming will be held in the San Diego Convention Center.
IMPORTANT SAFETY INFORMATION

CAUTION: United States Federal Law restricts this device to sale and use by or on the order of a physician or licensed eye care practitioners.

INDICATION: The LenSx® Laser is indicated for use in patients undergoing cataract surgery for removal of the crystalline lens. Intended uses in cataract surgery include anterior capsulotomy, phacofragmentation, and the creation of single plane and multi-plane arc cuts/incisions in the cornea, each of which may be performed either individually or consecutively during the same procedure.

RESTRICTIONS:
• Patients must be able to lie flat and motionless in a supine position.
• Patient must be able to understand and give an informed consent.
• Patients must be able to tolerate local or topical anesthesia.
• Patients with elevated IOP should use topical steroids only under close medical supervision.

Contraindications:
• Corneal disease that precludes application of the cornea or transmission of laser light at 1030 nm wavelength:
  • Descemet's with impending corneal rupture
  • Presence of blood or other material in the anterior chamber
• Poorly dilating pupil, such that the iris is not peripheral to the intended diameter for the capsulotomy
• Conditions which would cause inadequate clearance between the intended capsulotomy depth and the endothelium (applicable to capsulotomy only)
• Previous corneal incisions that might provide a potential space into which the gas produced by the procedure can escape
• Corneal thickness requirements that are beyond the range of the system
• Corneal opacity that would interfere with the laser beam
• Hypopyon or the presence of a corneal implant
• Residual, recurrent, active ocular or eyelid disease, including any corneal abnormality (for example, recurrent corneal erosion, severe basement membrane disease)
• History of lens or zonular instability
• Any contraindication to cataract or keratoplasty
• This device is not intended for use in pediatric surgery.

WARNINGS: The LenSx® Laser System should only be operated by a physician trained in its use. The LenSx® Laser delivery system employs one sterile disposable LenSx® Laser Patient Interface consisting of an annulotomy lens and suction ring. The Patient Interface is intended for single use only. The disposables used in conjunction with ALCON® instrument products constitute a complete surgical system. Use of disposables other than those manufactured by Alcon may affect system performance and create potential hazards.

The physician should base patient selection criteria on professional experience, published literature, and educational courses. Adult patients should be scheduled to undergo cataract extraction.

PRECAUTIONS:
• Do not use cell phones or pagers of any kind in the same room as the LenSx® Laser.
• Discard used Patient Interfaces as medical waste.

AES/COMPlications:
• Capsulotomy, phacofragmentation, or cut or incision decentration
• Incomplete or interrupted capsulotomy, fragmentation, or corneal incision procedure
• Capsular tear
• Corneal abrasion or defect
• Pain
• Infection
• Bleeding
• Damage to intraocular structures
• Anterior chamber fluid leakage, anterior chamber collapse
• Elevated pressure to the eye

ATTENTION: Refer to the LenSx® Laser Operator's Manual for a complete listing of indications, warnings and precautions.

IMPORTANT SAFETY INFORMATION FOR THE VERION™ REFERENCE UNIT AND VERION™ DIGITAL MARKER

CAUTION: Federal (USA) law restricts this device to sale by, or on the order of, a physician.

INTENDED USES: The VERION™ Reference Unit is a preoperative measurement device that captures and utilizes a high-resolution reference image of a patient’s eye in order to determine the relative position of the cornea, lenticular curvature of the cornea, pupil position and diameter, and corneal reflex position. In addition, the VERION™ Reference Unit provides preoperative surgical planning functions that utilize the reference image and preoperative measurements to assist with planning cataract surgical procedures that utilize the corneal alignment and preoperative measurements. The VERION™ Reference Unit also supports the expert of the high-resolution reference image, preoperative measurement data, and surgical plans for use with the VERION™ Digital Marker and other compatible devices through the use of a USB memory stick.

The VERION™ Digital Marker links to compatible surgical microscopes to display concurrently the reference and microscope images, allowing the surgeon to account for lateral and rotational eye movements. In addition, the planned capsulorhexis position and radius, IOL positioning, and implantation axis from the VERION™ Reference Unit surgical plan can be overlaid on a computer screen or the physician’s microscope view.

CONTRAINDICATIONS: The following contraindications may affect the accuracy of surgical plans prepared with the VERION™ Reference Unit: a pseudophakic eye, eye fixation problems, a non-intact cornea, or an irregular cornea. In addition, patients should refrain from wearing contact lenses during the reference measurement as this may interfere with the accuracy of the measurements.

Only trained personnel familiar with the process of IOL power calculation and astigmatism correction planning should use the VERION™ Reference Unit. Poor quality or inadequate biometer measurements will affect the accuracy of surgical plans prepared with the VERION™ Reference Unit.

The following contraindications may affect the proper functioning of the VERION™ Reference Unit: changes in a patient’s eye between preoperative measurement and surgery, an irregular elliptic limbus (e.g., due to eye fixation during surgery, and blebing or bladed conjunctiva due to anesthesia). In addition, the use of eye drops that constrict the pupil during surgery or during surgery should be avoided.

WARNINGS: Only properly trained personnel should operate the VERION™ Reference Unit and VERION™ Digital Marker.

Only use the provided medical power supplies and data communication cable. The power supplies for the VERION™ Reference Unit and the VERION™ Digital Marker must be uninterruptible. Do not use these devices in combination with an extension cord. Do not cover any of the components while turned on.

Only use a VERION™ USB stick to transfer data. The VERION™ USB stick should only be connected to the VERION™ Reference Unit, the VERION™ Digital Marker, and other compatible devices. Do not disconnect the VERION™ USB stick from the VERION™ Reference Unit during shutdown of the system.

The VERION™ Reference Unit uses infrared light. Unless necessary, medical personnel and patients should avoid direct eye exposure to the emitted or reflected beam.

PRECAUTIONS: To ensure the accuracy of VERION™ Reference Unit measurements, device calibration and the reference measurement should be conducted in dimmed ambient light conditions. Only use the VERION™ Digital Marker in conjunction with compatible surgical microscopes.

ATTENTION: Refer to the user manuals for the VERION™ Reference Unit and the VERION™ Digital Marker for a complete description of proper use and maintenance of these devices, as well as a complete list of contraindications, warnings and precautions.
LISTEN TO INDEPENDENT THINKING IN BOSTON.

Allergan Booth 414
Where industry leaders share their ideas

Saturday, April 26, 2014

9:00 AM
Detecting and Managing Glaucoma Progression
Robert Noecker, MD

10:00 AM
DSEK to DMEK…Hype or Reality?
Neda Shamiie, MD

11:00 AM
Strategies for Adjunctive Therapy in IOP Management
Nathan Radcliffe, MD

12:00 PM
Focus on Dry Eye Disease
Christopher Starr, MD

12:30 PM
HELP! Rescue Techniques for Surgical Complications
Robert Osher, MD

1:00 PM
Benchmarking—A Critical Discipline in Today’s Environment
Bob Teale, COE, OCS, Senior Eye Care Business Advisor, Allergan, Inc.
Derek Preece, Principal and Senior Consultant, BSM Consulting

2:00 PM
Protecting Your Practice From Theft: Lessons Learned
Jill Maher, MA, COE, OCS, Senior Eye Care Business Advisor, Allergan, Inc.
Candy Simerson, COE, President and CMO, Minnesota Eye Consultants

3:00 PM
Managing IOP in Clinical Practice
Robert Rothman, MD

3:30 PM
Epi-Bowman’s Keratectomy (EBK): A New Approach to Surface Ablation
Marguerite McDonald, MD

4:00 PM
Strategies for PC Rupture and Descending Nucleus
David Chang, MD

Sunday, April 27, 2014

9:00 AM
Online Marketing: Focused Strategies on Femtosecond Technology
Greg Raeman, COE, CCOA, OCS, Senior Eye Care Business Advisor, Allergan, Inc.
Rajesh Rajpal, MD

10:00 AM
Managing IOP in Clinical Practice
Jason Bacharach, MD

11:00 AM
Strategic Payor Relations: How to Prepare for ACOs
Sherri Boston, MBA, COE, OCS, Eye Care Business Advisor, Allergan, Inc.
Laurie Brown, CMOT, COE, OSA, OCS, CPSS, Administrator, Doctors Fine, Hoffman, and Sims

12:00 PM
Surgical Considerations of Premium IOLs for Residents and Fellows
Rajesh Rajpal, MD

1:00 PM
Video Management of Complex Cataract Cases
Eric Donnenfeld, MD

3:00 PM
Managing Multiple Practice Locations: Successful Strategies and Execution
Jim Rienzo, OCS, Senior Eye Care Business Advisor, Allergan, Inc.
Tom Pannullo, COO, Ophthalmic Consultants of Long Island

Monday, April 28, 2014

11:00 AM
Effective Patient Flow—Innovative Approaches
Rob Grim, OCS, Eye Care Business Advisor, Allergan, Inc.
Dan Chambers, COE, Executive Director, Key Whitman Eye Centers
Brett Chambers, CEO and Senior Consultant, KoreNetics

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AGNO 414

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Presentation times and speakers are subject to change.

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