The Premier Event in Eye Care Education

46th Annual Continuing Education Program

October 26-28, 2018
Hyatt Regency Chicago

www.jcahpo.org/ACE
Allergan: 70 Years Advancing Eye Care

On our 70th anniversary, we would like to thank and honor the healthcare professionals around the globe who have partnered with Allergan in caring for patients.

Seventy years ago, Gavin S. Herbert, Sr, and his son, Gavin Herbert, Jr, brought Allergan to life with a droplet and a dream in a small laboratory above their Los Angeles drugstore. Seeing the potential to bring novel medications to patients around the world, Gavin Jr provided the leadership for Allergan to become a leading global eye care company. Their lifelong commitment to advancing eye care and improving the lives of patients remains at the heart of our organization.

Over the last 70 years, Allergan has discovered, developed, and delivered some of the most innovative products in the industry. Allergan has launched 125 eye care products and invested billions of dollars in new treatments for the most prevalent eye conditions including glaucoma, ocular surface disease, and retinal diseases such as diabetic macular edema and retinal vein occlusion. Our eye care pipeline includes 12 additional agents for multiple ocular conditions.

Our commitment to the well-being of patients is also reflected in philanthropy. Allergan and The Allergan Foundation support more than 150 organizations around the world working to improve lives and communities.

Allergan contributes significantly to the eye care community. We work closely with eye care clinicians, research leaders, and managed care organizations to stay abreast of their needs. We provide support for continuing education programs and academic institutions, as well as for recent graduates. For patients, we offer a variety of patient savings and assistance programs to ensure greater access to Allergan medications.

As a leader in eye care, we remain committed to helping eye care providers deliver the best in patient care through innovative products and outreach programs. Thank you, again, to the many healthcare professionals who have trusted Allergan for excellence in patient care. We look forward to working with you on this important mission for many years to come.
Welcome to Chicago

Join us in Chicago Friday to Sunday, Oct. 26-28, 2018, for the PREMIER EVENT IN EYE CARE EDUCATION!

On behalf of the International Joint Commission on Allied Health Personnel in Ophthalmology (IJCAHPO), the Association of Technical Personnel in Ophthalmology (ATPO), and the Contact Lens Society of America (CLSA), we invite you to attend our 46th Annual Continuing Education (ACE) Program, the 33rd Annual Scientific Session and 2nd Annual CLSA Contact Lens Symposium. We are delighted to return to the Hyatt Regency Chicago to present the PREMIER Event in Eye Care Education.

ACE Highlights

• Harold A. Stein, MD Lecture, “Information Technology and Big Data in Eye Care.” Michael F. Chiang, MD will present the advancements in information technology, how big data affects the practice of ophthalmology and the potential to improve quality, cost and delivery of eye care.

• ATPO’s keynote address, “Volunteering in Ophthalmology: Decades of Experience,” presented by speaker, Elizabeth Affel, COA, ROUB, CDOS, OCT-C, provides tips for technicians on how to apply basic to advanced-level skills outside of the standard clinical environment.

• The 2nd Annual CLSA Contact Lens Symposium will present a one-day program with two educational sessions. The morning session will cover soft and corneal rigid gas permeable contact lens evaluations in the office, as well as important tips and pearls for evaluating and dispensing contact lenses in an ophthalmology practice. The afternoon session will delve into more advanced contact lens topics including corneal topography in a contact lens practice and specialty contact lenses. Faculty: Wendy Ford, FCLSA, COMT; Jane Beeman, FCLSA; Phyllis Rakow, FCLSA, COMT; and Buddy Russell, FCLSA, COMT.

INNOVATIVE AND VALUE-ADDED PROGRAMS

• 56 New Courses and Learning Labs—Including Advanced and Masters Levels.

• Learning Labs—Hands-on workshops that offer a unique educational experience.

• Basic Track—Designed for new allied ophthalmic personnel, this track provides the fundamentals of becoming a valuable member of the eye care team.

• Train the Trainer—ATPO's highly skilled experts provide insight on how to effectively engage your team.

• Certification Examination Review Sessions—Attend one of the certification examination preparation review sessions and gain knowledge and confidence to test.

• Bookstore—Visit the on-site IJCAHPO Bookstore for our most popular titles and products.

• Exhibitor Tables—Visit with our exhibitors showcasing their latest products and services in the Grand Ballroom Foyer.

Stay Connected!
ACE App—Download the interactive mobile app for answers to all of your questions, updates and links.

Thank You!
Thank you to all of our speakers and Learning Lab instructors who have graciously volunteered their time and expertise, as well as our corporate supporters who are committed to Allied Ophthalmic Personnel (AOP) education.

We look forward to welcoming you in Chicago!

Future ACE Dates/Locations

<table>
<thead>
<tr>
<th>Year</th>
<th>October 11-13</th>
<th>November 13-15</th>
<th>November 12-14</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>San Francisco</td>
<td>Las Vegas</td>
<td>New Orleans</td>
</tr>
<tr>
<td>2020</td>
<td></td>
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<tr>
<td>2021</td>
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</tbody>
</table>

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IJCAHPO’s 46th ACE Program
Planning Committee
Michael Stewart, MD—Chair
Karl Golnik, MD, MEd
Suzanne Hansen, MEd, COMT, OSC
Christine McDonald, COA, ROUB, COE
William Mieler, MD
Elizabeth Palkovacs, MD, FRCSC
Jade Schifferman, MD, FAAO, FAAN
Frank Scribbrick, MD

IJCAHPO’s 46th ACE Program
Planning Committee

ATPO’s 33rd Annual
Scientific Session Committee
Jessica Barr, COMT, ROUB—Chair
Amy Jost, BS, COMT, CCRC, CTC
Jacqueline Pullos, COMT, OSC
Veronica Plessinger, COT
Beth Koch, COT, ROUB
Roel Chapa, COT, OSA
Rhonda Ullom, COMT, OSC, FLCSA
Jennifer Boush, COA, OSC
Sergina Flaherty, COMT
Lisa Rovick, MHSc, COMT, CO

2018 ACE Faculty Awards
IJCAHPO would like to congratulate and thank the following instructors for their dedication and participation.

25 Years
• Carol Pollack-Rundle, BS, COMT, COE
• Paul Larson, MBA, MMSc, COMT, COE

15 Years
• Hilary Beaver, MD
• Femida Kherani, MD, FRCSC, Dipl. ABO
• Anndrea Grant, COMT, OSC

10 Years
• Sharon Alamalhodaei, COMT
• Richard Allen, MD, PhD, FACS
• Barbara Krzeszowski, COT, LPN, OSA

5 Years
• Eydie Miller-Ellis, MD
• Sandra Mohring
• James Tsai, MD, MBA, FACS

ACE 2018 MOBILE APP: Stay informed with access to all of the latest ACE 2018 conference information. Download IJCAHPO’s mobile conference app at jcahpo.mosaic-mobile.net/share-app.aspx.
General Information

Program Site
IJCAHPO, ATPO and CLSA: Courses for allied ophthalmic personnel will be held at the Hyatt Regency Chicago, 151 East Upper Wacker Drive, Chicago, IL 60601.

American Academy of Ophthalmology: The exhibit hall and courses for physicians will be located at McCormick Place, 2301 S. Martin Luther King Drive, Chicago, IL 60616.

ACE Program Website
Visit www.jcahpo.org/ACE for up-to-date information related to the ACE Program, including sold-out courses.

ACE App
Beginning July 1, the app will be available to download at jcahpo.mosaic-mobile.net/share-app.aspx.

Accommodations
Hotel reservations must be made through the AAO Housing Bureau. Housing opened on June 13 to Academy and AAOE members and on June 27 to allied ophthalmic personnel. Visit www.aaao.org for more information.

Parking—Hyatt Regency Chicago parking facilities accommodate vehicles up to 6 feet 8 inches tall. Overnight guest parking is available for a fee. Additional parking options include the Illinois Center Garage.


Airport Transportation
Visit the respective airport’s website (O’Hare, Midway) for options and fares.

Ground Transportation
Always check with your hotel regarding complimentary transportation to and from the airport.

From O’Hare International Airport (ORD) 17 miles (Downtown)
Taxi, Towncar, Luxury Vehicle and Limousine Service—Taxi stands are located at each terminal on the lower level, at the curb outside of Baggage Claim.
Rideshare (Uber, Lyft, etc.)—Loading zones for rideshare services are on the upper level between Terminal 1 and Terminal 2, upper level between Terminal 2 and Terminal 3, and lower level Terminal 5 across from exit Door 5C. Uber Black and Uber Taxi will pick up on the lower level.
CTA trains (The ‘L’)—The O’Hare station is located on the lower level concourse, which connects Airline Terminals 1, 2 and 3. Visit the www.transitchicago.com/planatrip for more information about getting to and from the airport.

From Midway Airport (MDW) 10 miles (Downtown)
Taxi, Towncar, Luxury Vehicle and Limousine Service—Taxi stands are located on the lower level, at the curb outside of the terminals. All Chicago taxis are licensed and recognizable by the numbered metal medallions attached to their hoods.
Rideshare (Uber, Lyft, etc.)—The loading zone for rideshare services is on the upper level near Door 1.
CTA trains (the ‘L’)—The Midway station is located east of the airport terminal, connected via a walkway. Visit www.transitchicago.com/planatrip for more information about getting to and from the airport.

Pick up Tickets, Name Badge and Tote Bag
On-Site in the Grand Ballroom
Barcoded tickets are issued for ALL courses to ensure your admission. Pick up your meeting packets on-site. If you register:
• Before October 12—at the “PRE-REGISTRATION” desk.
• On or after October 13—at the “REGISTRATION” desk.

On-Site Registration Hours
Hyatt Regency Chicago IJCAHPO—Riverside Room
Thursday, October 25 . . . . . . . . . 6:00 pm-9:00 pm
(Limited hours for ticket and tote pick up ONLY for those that registered before Oct. 12)
Grand Ballroom Pre-Registration Desk and Registration Desk
Friday, October 26 . . . . . . . . . . . . . . . . 6:30 am-4:00 pm
Saturday, October 27 . . . . . . . . . . . . . . . . 6:30 am-4:00 pm
Sunday, October 28 . . . . . . . . . . . . . . . . 6:30 am-3:00 pm

AAO Shuttle Service
Shuttle bus service is provided for meeting attendees during meeting hours from Saturday, October 27, through Sunday, October 28. All shuttles stop at McCormick Place where attendees can transfer to the Hyatt Regency Chicago route. If you plan to use the AAO shuttle service, allow PLENTY of time for travel – the shuttle buses stops at several hotels in addition to the transfer at McCormick Place, located three miles from downtown. Attendees staying downtown might consider walking, taxis, or ride-share services to save time. There is very limited service on Friday, October 26.

The City of Chicago
Visit www.choosechicago.com for local information, including where to eat and what to do in Chicago.

Cell Phone and Smoking Policies
Cell phones must be set to “silent” during lectures and Learning Labs. Phone conversations in the classroom are strictly prohibited and you will be asked to leave the room. Smoking is prohibited in the hotel.

IJCAHPO Bookstore
Grand Suite 3 (Grand Ballroom level)—IJCAHPO sells the most popular products and books on-site. On-site bookstore orders receive FREE SHIPPING and will be shipped to you following the conference.

Exhibitors at Hyatt Regency Chicago
IJCAHPO hosts a variety of exhibitors during the ACE program. Visit the exhibits on Saturday and Sunday from 7:30 am-4:30 pm in the Grand Ballroom Foyer.

AAO Exhibit Hall Hours—
McCormick Place, South Hall, Level 3
Attendees may purchase an AAO exhibit hall pass at a reduced fee of $100.00 which is good for the entire 3.5 days of the exhibition.
Saturday, October 27 . . . . . . . . . . . . . . . . 9:00 am-5:00 pm
Sunday, October 28 . . . . . . . . . . . . . . . . 9:00 am-5:00 pm
Monday, October 29 . . . . . . . . . . . . . . . . 9:00 am-5:00 pm
Tuesday, October 30 . . . . . . . . . . . . . . . . 9:00 am-1:00 pm
Visit IJCAHPO in booth #1505 at the AAO Exhibit Hall.
**Registration Information**

### Registration Deadlines

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Early Registration Closes</td>
<td>August 31</td>
</tr>
<tr>
<td>Registration Price Increase</td>
<td>September 1</td>
</tr>
<tr>
<td>Changes/Cancellations/Refunds Deadline</td>
<td>October 12</td>
</tr>
<tr>
<td>Registration Price Increase</td>
<td>October 25</td>
</tr>
<tr>
<td>On-Site Registration at Hyatt Regency Chicago</td>
<td>October 26-28</td>
</tr>
</tbody>
</table>

### Registration Online, by Fax, or Mail

On-site registration fees are significantly higher and Learning Labs sell out fast. To avoid long lines at the on-site registration desk, and reduce the risk of not getting your first choice of classes, be sure to pre-register.

Registrations received without payment will not be processed. **Save the $50 processing fee by registering online.**

- **Online Registration** at [www.jcahpo.org/ACE](http://www.jcahpo.org/ACE) and click on REGISTER (preferred)
- **Fax** your registration form and selections to 651-731-0410
- **Mail** your registration form and selections to:
  
  **IJCAHPO**, 2025 Woodlane Drive
  
  St. Paul, MN 55125-2998

*Registrations received by fax or mail will be assessed a $50 processing fee.

### Cancellations and Refunds

- Cancellations must be received in writing. If registration is cancelled by October 12, the amount will be refunded less $100.
- If you become certified prior to the program, and initially paid the non-certified registration fee, you may request an appropriate refund by October 12. No refunds will be offered for changes after October 12.
- ATPO and CLSA memberships are non-transferable and non-refundable.

### Registration Changes

Changes to your initial registration may be made online through October 12, and on-site in Chicago. You may add or delete LECTURES by logging into your account at [www.jcahpo.org](http://www.jcahpo.org).

Changes involving a financial transaction must be received in writing at the IJCAHPO office by October 12, or handled by an IJCAHPO staff member in Chicago. Email change requests to registrations@jcahpo.org or FAX to 651-731-0410.

### Please Note:

- Transfer of courses from one registrant to another is not permissible.
- No refunds resulting from a registration change will be issued after the October 12 cancellation deadline.

### Registration Confirmations

Online registrants will receive an automated email confirmation at their preferred email address. Attendees who register by mail or fax will be mailed a confirmation to the home address listed on the registration form. If no home address is listed, the work address will apply. Carefully review the confirmation when you receive it. If a course was sold out at the time you registered, it will **NOT** appear on your confirmation. If you have not received a confirmation by October 25, call IJCAHPO at 800-284-3937 or email registrations@jcahpo.org.

### Group Discounts Available

Group discounts apply to the IJCAHPO Full Package Only. Group discounts are **NOT** available for ATPO and CLSA registrations.

When two or more people from the same office register for the Full Package, only one person pays the regular fee. The additional registrants receive a $25 discount for each additional Full Package registration. The name of the person paying the non-discounted fee must be written on the registration form under “Full Package” for verification. Group discount must be requested when completing the registration form—no retroactive discounts will be granted.

### Contact Lens Society of America

We are excited to offer the 2nd Annual Continuing Education Contact Lens Symposium in collaboration with the Contact Lens Society of America. Registration for the full day Contact Lens Symposium (Saturday, October 27) is listed on page 6 of the Registration Form.

See page 28 for the Symposium information.

A half-day contact lens skills transfer lab simulation will be held on Friday, October 26 as part of the IJCAHPO program. Course details provided on page 50.

### ACE 2018 Mobile App

Don’t miss out! Stay informed with access to all of the latest ACE 2018 conference information. Download IJCAHPO’s mobile conference app at jcahpo.mosaic-mobile.net/share-app.aspx.

**Features:**

- View your custom conference schedule
- Interactive hotel map
- Conference news, alerts and updates
- Course/Learning Lab descriptions and handouts
- Faculty listing
- Post conference hot topics to IJCAHPO’s Facebook and LinkedIn pages

### Photography Release

By attending the IJCAHPO/ATPO/CLSA 46th Annual Continuing Education Program, attendees agree to allow their names, likenesses and images (photographic) to be used by IJCAHPO, ATPO and CLSA for educational and promotional purposes.
**REGISTRANT INFORMATION**

Please list the credentials you want to appear on your name badge (limit two)

<table>
<thead>
<tr>
<th>Name</th>
<th>Ms.</th>
<th>Mrs.</th>
<th>Mr.</th>
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<tbody>
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Date of Birth (mm/dd/yy) / / 

<table>
<thead>
<tr>
<th>First</th>
<th>M.I.</th>
<th>Last</th>
<th>Former name, if applicable</th>
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</table>

Home Address

Preferred Telephone - - Preferred Email Address

**IN CASE OF EMERGENCY, PLEASE NOTIFY**

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone Number</th>
</tr>
</thead>
<tbody>
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</table>

Have you previously attended a IJCAHPO Annual CE Program?  □ YES  □ NO

Which category best describes your professional activities? (Check all that apply)

- Administration/Management
- Clinical/Diagnostic Testing
- Clinical Research
- Coding Specialist
- Contact Lens
- Cornea and External Disease
- Cataract and IOL
- Comprehensive Ophthalmology
- Contact Lenses
- Front Office
- Laser Technology
- Low Vision
- Oculoplastics/Reconstructive Surgery
- Ophthalmic Photography
- Ophthalmic Pathology
- Optical
- Orthoptics
- Pediatric Ophthalmology/Strabismus
- Retina and Vitreous Disease
- Refractive Surgery
- Surgical Assisting
- Surgical Coordinator
- Neuro-Ophthalmology
- Pediatric Ophthalmology/Strabismus
- Other

Number of years worked in ophthalmology: 

Number of years with current employer:

**EMPLOYER INFORMATION**

<table>
<thead>
<tr>
<th>Name of Practice</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

Business Address

Preferred Telephone - - Ext. Fax Number - -

<table>
<thead>
<tr>
<th>Business Telephone</th>
<th>City</th>
<th>State</th>
<th>Zip</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**METHOD OF PAYMENT**

Registrations received without payment will NOT be processed.

- Check
- Money Order
- VISA
- MasterCard
- Discover
- American Express

If paying by check or money order, please make payable to JCAHPO. Checks must be in U.S. dollars. If paying with a credit card, please complete the information below. A $25 fee will be assessed for declined checks and declined credit cards.

<table>
<thead>
<tr>
<th>Card #</th>
<th>Expiration Date</th>
<th>Security Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Payer’s Name (Please PRINT) 

Payer’s Billing Address

Authorized Signature X

---

**IJCAHPO ID # | ATPO Member # | Government Facility/Duty Location**

Type or print clearly. Use one form per registrant. Duplicate this form for additional registrants.

**IJCAHPO reserves the right to adjust registration charges originally paid with a credit card via fax, mail, or internet if the amount originally paid was deficient or excessive. The credit card account will be charged or credited and the cardholder will be provided with a notice of the adjustment.**

Please indicate registration selections on reverse side.

- Register online at www.jcahpo.org/ACE and click on REGISTER
- Send registration form with payment to: JCAHPO, 2025 Woodlane Drive, St. Paul, MN 55125-2998
- Fax: 651-731-0410

Questions 800-284-3937. To avoid duplication, please do not mail and fax registrations.

October 26 - 28, 2018 • Hyatt Regency Chicago
# Registration Form

## IJCAHPO

<table>
<thead>
<tr>
<th>Full Package (Any lectures Friday through Sunday)</th>
<th>Certified</th>
<th>Non-Certified</th>
</tr>
</thead>
<tbody>
<tr>
<td>List course codes below. $25 Group Discount for Full Package: See page 4 for details. Discount must be requested at this time—no retroactive discounts will be granted. Name of registrant with the non-discounted fee:</td>
<td>Early Reg by Aug. 31</td>
<td>Reg by Oct. 25</td>
</tr>
<tr>
<td></td>
<td>$350</td>
<td>$420</td>
</tr>
<tr>
<td>1-Day Package (Any lectures on ONE day of your choice)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>List course codes below. Check ONE: FR SA SU</td>
<td>$220</td>
<td>$290</td>
</tr>
<tr>
<td>Military and Veteran Full Package</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Any lectures Friday through Sunday) List course codes below.</td>
<td>$220</td>
<td>$290</td>
</tr>
<tr>
<td>Learning Labs Sold only in conjunction with packages above. You MUST register below for the required prerequisite lecture if one is listed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>List Course Codes to Register</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barcoded tickets will be issued for pick up on-site.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lecture course codes end with a number, e.g., 01SU3.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>You MUST also register for the required prerequisite lecture if listed.</td>
<td></td>
<td></td>
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<tr>
<td>Prerequisite Courses:</td>
<td></td>
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</tbody>
</table>

## ATPO

<table>
<thead>
<tr>
<th>Join or renew your ATPO membership and receive member registration pricing.</th>
<th>New</th>
<th>Renewing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$75 (1 year)</td>
<td>$175 (3 years)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scientific Session + Grand Rounds (Saturday &amp; Sunday) Includes: Lunch, refreshment breaks both days, and &quot;Who Wants to Be a Super Tech?&quot; on Saturday.</th>
<th>ATPO Member</th>
<th>Non-Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early Reg</td>
<td>Reg</td>
<td>On-site</td>
</tr>
<tr>
<td></td>
<td>$300</td>
<td>$355</td>
</tr>
</tbody>
</table>

| Scientific Session + Grand Rounds (Saturday & Sunday) Plus IJCAHPO Lectures on Friday List course codes in IJCAHPO’s registration section above. | | | | | | | |
| | $460 | $580 | $605 | $635 | $760 | $865 | $ |

| Military and Veteran Scientific Session + Grand Rounds (Saturday & Sunday) | | | | | | | |
| | $200 | $255 | $290 | $275 | $330 | $365 | $ |

<table>
<thead>
<tr>
<th>Written Exam Review (Friday—see course times)</th>
<th>COA</th>
<th>COT</th>
<th>COMT</th>
<th>ROUB</th>
<th>COA</th>
<th>COT</th>
<th>COMT</th>
<th>ROUB</th>
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<tbody>
<tr>
<td>Early Reg</td>
<td>Reg</td>
<td>On-site</td>
<td>Early Reg</td>
<td>Reg</td>
<td>On-site</td>
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<tr>
<td></td>
<td>$55</td>
<td>$75</td>
<td>$75</td>
<td>$55</td>
<td>$75</td>
<td>$90</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

| Practical Exam Review (Friday—see course times) | | | | | | | |
|---|---|---|---|---|---|---|
| Early Reg | Reg | On-site | Early Reg | Reg | On-site |
| | N/A | $75 | N/A | $130 | $150 | $130 | $ |

| Train the Trainer (Friday—see course times) | | | | | | | |
|---|---|---|---|---|---|---|
| | $150 | $200 | | | | |

| Super Tech Program and Reception only | | | | | | | |
|---|---|---|---|---|---|---|
| | $40 | | | | $55 | $ |

| Career Branding | FREE | FREE | |
|---|---|---|

## CLSA

<table>
<thead>
<tr>
<th>Join or renew your CLSA membership and receive member registration pricing.</th>
<th>New</th>
<th>Renewing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CLSA Member ($155/year)</td>
<td>Joint CLSA/ATPO Member ($170/year)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>CLSA Member/Certified</th>
<th>Non-Member/Non-Certified</th>
</tr>
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<tbody>
<tr>
<td>Early Reg</td>
<td>Reg</td>
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<tr>
<td></td>
<td>$160</td>
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</table>

| Half-Day Package (Saturday) Check ONE: AM Session PM Session | | | | | | | |
|---|---|---|---|---|---|---|
| Early Reg | Reg | On-site | Early Reg | Reg | On-site |
| | $90 | $100 | $110 | $105 | $115 | $125 | $ |

<table>
<thead>
<tr>
<th>If you are a CLSA member or IJCAHPO certified, you are eligible for “Certified” pricing options. IJCAHPO and NCLE CE credits available.</th>
<th></th>
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<tbody>
<tr>
<td></td>
<td>Full-Day Package (Saturday) Plus IJCAHPO Lectures on Friday &amp; Sunday List course codes in IJCAHPO’s registration section above.</td>
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<td></td>
<td></td>
<td>$385</td>
<td>$455</td>
<td>$525</td>
<td>$475</td>
<td>$555</td>
<td>$615</td>
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</table>

## MISCELLANEOUS

<table>
<thead>
<tr>
<th>AAO Four-Day Exhibit Hall Pass (Sold only to IJCAHPO, ATPO and CLSA registrants. See page 3.)</th>
<th>YES! Sign me up. FREE</th>
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</thead>
<tbody>
<tr>
<td>Harold A. Stein, MD Lecture (Registration required)</td>
<td>FREE</td>
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</tr>
<tr>
<td>Foundation Donation</td>
<td>$1</td>
<td>$5</td>
</tr>
<tr>
<td>Register Online and SAVE $50! Processing Fee</td>
<td>$50.00</td>
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IJCAHPO reserves the right to adjust registration charges originally paid with a credit card via fax, mail, or internet if the amount originally paid was deficient or excessive. The credit card account will be charged or credited and the cardholder will be provided with a notice of the adjustment. (Make all checks payable to JCAHPO)
### Prerequisite Lectures Online

Introductory courses are now offered in advance of the conference at www.EyeCareCE.org. They will NOT be offered on-site in Chicago.

The Learning Labs below require prerequisite lectures which are being offered online at no extra cost in advance of the Annual CE Meeting beginning July 15 through November 26. Upon completion of each course and completion of the evaluation, you will earn one CE Credit. Completion of the course requires an 80% or higher passing grade on a short quiz and the completion of the course evaluation.

You may also register for these online lectures without purchasing Learning Labs.

After registering for the Learning Lab, you will also need to register for the introductory course to access it online.

**To access the online course(s):**

2. Click the “My Courses” button.
3. If prompted, log on using your IJCAHPO username and password.
4. Under “Purchased Courses” find the title of the prerequisite course.
5. Click the “Launch Course” button.

### Sub-Specialty Sessions

Sub-specialty sessions are held each day. Sessions offered are: Retina, Practice Management, Scribing, Low Vision, Cornea and Refractive, and Neuro-Ophthalmology. See the Day-at-a-Glance pages and page 11 for details.

### Continuing Education (CE) Credit*

CE credits awarded are listed in the Course Descriptions section starting on page 34. Along with CE credits awarded by IJCAHPO, each course lists CE credits awarded by the following organizations:

- American Orthoptic Council: Core (AOC-C), Non-core (AOC-NC)
- Ophthalmic Photographers’ Society: (OPS 1:1), (OPS 1:2)
- California Board of Registered Nursing (CA BRN)
  Provider approved by the California Board of Registered Nursing, Provider Number 13516 for 135 contact hours.

**ATPO Program**—Please refer to pages 19-25 for information on CE credits awarded by IJCAHPO and AOC.

**CLSA Program**—Please refer to pages 27-28 for information on CE credits awarded by IJCAHPO. Courses have been submitted to the ABO-NCLE for continuing education credit.

Courses are monitored and attendees arriving late or leaving early from a course are documented. If you miss more than 15 minutes of a course hour, CE credit will be denied for the entire hour.

* Disclaimer: In granting continuing education credit to a course or materials, IJCAHPO, ATPO and CLSA do not warrant or express an opinion regarding the content of the continuing education courses or materials, the accuracy of information presented, or the skills and qualifications of the course presenters, sponsors, or authors.

### Verification of CE Credits Earned

Attendees can access CE credits earned through their IJCAHPO online account approximately 8-10 weeks after the program. No statements will be mailed. It is every registrant’s responsibility to check posted CE credits. **You must submit written correction requests to IJCAHPO by January 31, 2019.**

### Handouts Online

IJCAHPO, ATPO and CLSA do not provide handouts on-site. We will email you a link and instructions for downloading and printing handouts in September. Handouts for courses purchased on-site may also be viewed on your mobile device using the IJCAHPO mobile app, and can be printed in the hotel business center; however, be advised that hotels may charge a fee for internet access and printing. Handouts will also be available for one month following the ACE program.

<table>
<thead>
<tr>
<th>Learning Labs Offered at ACE Program in Chicago</th>
<th>Prerequisite, Introductory Courses—Offered Online</th>
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<tbody>
<tr>
<td>Keratometry</td>
<td>Introduction to Keratometry</td>
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<td>Tonometry</td>
<td>Introduction to Tonometry</td>
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<tr>
<td>Ultrasound Biometry (A-Scan)</td>
<td>Introduction to the Use of the Slit Lamp Microscope</td>
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<tr>
<td>Slit Lamp Microscopy</td>
<td>Introduction to Contact B-Scan Ultrasonography</td>
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<tr>
<td>Refraction: Minus Cylinder</td>
<td>Introduction to Practical Refraction: Minus Cylinder</td>
</tr>
<tr>
<td>Refraction: Plus Cylinder</td>
<td>Introduction to Practical Refraction: Plus Cylinder</td>
</tr>
<tr>
<td>UBM</td>
<td>Introduction to UBM</td>
</tr>
<tr>
<td>Retinoscopy: Plus and Minus Cylinder</td>
<td>Learning Systems: Retinoscopy and Refinement</td>
</tr>
<tr>
<td>Corneal Topography with the Pentacam</td>
<td>Introduction to Corneal Topography</td>
</tr>
</tbody>
</table>
Join fellow technicians during the 2018 IJCAHPO ACE Program as highly regarded experts in the field talk about clinical options in eye care and the role of today's ophthalmic technicians in patient care.

Saturday, October 27, 2018

Hyatt Regency Chicago
Grand Ballroom E/F
151 E. Upper Wacker Drive
Chicago, IL 60601

4:00pm – 4:30pm - Registration
4:30pm – 6:00pm - Presentation and Interactive Discussion
(food and beverages will be served)

There are 2 ways to register for this event:

Web registration:  www.medforcereg.com/talg181019
Phone registration: 888-339-8383

A confirmation of your registration will be sent to you within 48 hours. This event will be filled on a first-come, first-served basis and once it is closed you will be placed on the waiting list.

This event complies with PhRMA guidelines. Attendance is limited to eye care professionals. Accordingly, we appreciate your support in not bringing a spouse or guest to this program. Healthcare professionals licensed in Vermont may not attend this event due to their respective state laws and regulations that restrict the provision of meals to healthcare professionals. Minnesota state law permits technicians only to attend this event. No other healthcare professionals licensed in Minnesota may attend. Government employees may not attend this event due to Federal restrictions on providing meals to government personnel.

This event is not affiliated with the official 2018 IJCAHPO ACE Program.
Welcome to the 46th Annual Continuing Education Program in Chicago

PROGRAM HIGHLIGHTS:

- Michael Chiang, MD, will be the featured keynote speaker to deliver the 16th Annual Harold A. Stein, MD, Lecture on “Information technology and big data in eye care: Promises, challenges, and solutions.”

- **6 SUB-SPECIALTY SESSIONS** featuring in-depth learning with a panel of experts in a variety of specialties each day.

- **206 courses** featuring:
  - 56 NEW COURSES and Learning Labs
  - 14 MASTER LEVEL courses for the more experienced eye care team members
  - 42 ADVANCED level courses
  - 111 INTERMEDIATE level courses
  - 39 BASIC LEVEL courses

- **19 COURSES FOR THE NEW HIRE** in one convenient track in Columbus KL

www.jcahpo.org/ACE
We are pleased to present Michael Chiang, MD, as the keynote speaker for the Harold A. Stein, MD Lecture, on Saturday, October 27, 2018 at 8:00 am in Grand Ballroom EF.

Join Dr. Chiang as he discusses how advances in information technology and big data affect the practice of ophthalmology. Learn about the potential for these technologies to improve the quality, cost, and delivery of eye care; understand the challenges that current medical computing technologies have created for clinical workflow and documentation; and how emerging technologies may address these challenges.

Dr. Chiang is a clinician-scientist and is the Knowles Professor of Ophthalmology and Medical Informatics at the Oregon Health and Science University (OHSU) Casey Eye Institute and Vice-Chair (Research) in the ophthalmology department. His clinical practice focuses on pediatric ophthalmology, and he is board-certified in clinical informatics. Dr. Chiang’s research focuses on the application of biomedical informatics to clinical ophthalmology, telemedicine, clinical information systems and computer-based image analysis to improve health care delivery. He has published more than 120 peer-reviewed journal papers, and has directed training programs in ophthalmology and biomedical informatics.

Dr. Chiang earned his MD from Harvard Medical School, an MA in Biomedical Informatics from Columbia University, and a BS in Electrical Engineering from Stanford University, and completed residency and fellowship training at the Johns Hopkins Wilmer Eye Institute. He is past chair of the AAO Medical Information Technology Committee, and chair of the AAO IRIS Registry Data Analytics Committee. He is also Associate Editor for the Journal of the American Medical Informatics Association, Associate Editor for the Journal of AAPOS and serves on the Editorial Boards for Ophthalmology and Ophthalmology Retina. He has received numerous clinical, research and teaching awards, and has mentored more than 40 postdoctoral fellows, medical students and graduate students.

You won’t want to miss his lecture! For more information and to register, please visit: www.jcahpo.org/ace.

The Harold A. Stein, MD Lecture

This year marks the 16th Annual Harold A. Stein, MD Lecture, created to honor Harold A. Stein, MD, FRCSC. The JCAHPO Education and Research Foundation established the Harold A. Stein, MD, FRCSC Endowed Lectureship in 2000 to support the Keynote Session.

In 1968, he wrote his first textbook, the Ophthalmic Assistant, which is in its 10th edition. Dr. Stein generously donates his book sales proceeds to the Foundation to support technician education and certification.

Dr. Stein was instrumental in organizing the first Plenary (Keynote) Session held in San Francisco, CA, in 1985, and one of the early organizing commissioners of IJCAHPO. He served as IJCAHPO’s President from 1986-1987, and served as a Commissioner from 1972-1992.

Dr. Stein is Director of the Bochner Eye Institute in Toronto, Ontario, Canada, and a Professor of Ophthalmology at the University of Toronto.

Dr. Stein and his wife, Anne, reside in Toronto, where Dr. Stein continues to practice.

SEATING IS LIMITED. Admission ticket required. If you plan to attend, check the appropriate box on your registration form. 1 GROUP A IJCAHPO CREDIT
SUB-SPECIALTY SESSIONS

CORNEA AND REFRACTIVE
NEW! Cornea and Refractive Sub-Specialty Session (02FR23)
Friday, Oct. 26, 9:10 am-11:10 am
Derek DelMonte, MD, Aurora, CO—Chair
Francis Mah, MD, La Jolla, CA

This sub-specialty session will address the latest cornea disease treatments and refractive surgery technologies. These leading faculty will discuss current treatments and surgical technologies of corneal cross-linking, DSAEK and DMEK, and other key topics. They will present best practices and important roles that technicians have in patient care.

LOW VISION
NEW! Low Vision Sub-Specialty Session (02FR56)
Friday, Oct. 26, 12:40 pm-2:40 pm
Walter Jay, MD, Maywood, IL—Chair
Gregg Pusateri, OD, Wheaton, IL—Chair
Ashley Alexander, COMT, ROUB, CDOS, Kingston, ON, Canada
Joseph Fontenot, MD, Mobile, AL
Thomas Porter, OD, FAAO, Saint Louis, MO
John Shepherd, MD, Omaha, NE

Low vision has a great impact on our patients and society. Understanding what our patients experience gives us greater insight into how we can best assist them. This session will address the latest low vision technologies and devices, resources and rehabilitation, and the role technicians have with patient care. The faculty will present: 1) Low Vision Clinic: Stepping Up Your Game; 2) There is Something You Can Do; 3) Driving with Low Vision; and 4) Smart Devices and Smart Homes for the Low Vision Patient.

SCRIBING
Scribing Sub-Specialty Session: The Physician’s Partner in Delivering Efficient Patient Care (02SA23)
Saturday, Oct. 27, 9:10 am-11:10 am
Martha Tello, COMT, OSC, Plantation, FL—Chair
Roel Chapa, Jr., COT, OSA, San Antonio, TX
Andreea Grant, COMT, OSC, Bellingham, WA
Paul Larson, MBA, MMSc, COMT, COE, Avondale Estates, GA

This session will jump-start your scribing career the “write way!” The course will give an overview of the best practices and the importance of scribes in clinic practice. Learn about the role of a scribe, how to scribe, documentation, and coding. Experts will bring you the “Top Ten Errors and Tips & Techniques,” how to prevent and correct errors, and improving the quality of EHR documentation. Attendees will see a demonstration first-hand on a clinic’s EMR training environment to demonstrate the correct way of documenting physician actions during the exam.

Financial interest disclosed

PRACTICE MANAGEMENT
Practice Management Sub-Specialty Session (02SA67)
Saturday, Oct. 27, 1:50 pm-3:50 pm
Christine McDonald, COA, ROUB, COE—Chair
Laurie Brown, MBA, COMT, OCS, COE, Marana, AZ
Cindy Diogo COT, OSA, OSC, Mississauga, PA
Chris Dean, St. Cloud, MN
Maureen Waddle, MBA, Wilton, CA

Prerequisite: A minimum of two years in the ophthalmic practice.

This session will focus on practice management trends for a high functioning practice to increase practice productivity and profitability. The session will address balancing clinical efficiency with quality care using best practices. Topics include: 1) The Most Common Mistakes in Chart Documentation, What Auditors Look for and How to Prevent Them; 2) Tips for developing an efficient patient schedule—schedules are essential components to patient satisfaction as well as maximizing physician and staff productivity, including the methodology to analyze and design the clinic schedule to meet these objectives; 3) Staying current with government regulations: Years 2 and 3 of MIPS/MACRA, Compliance, OSHA, HIPAA and how to get staff on board; 4) Best practices for EHR, patient security and confidentiality; and 5) Increasing staff morale through training; how effective training can change practice culture. Lessons learned, cases and examples will be shared, as well as the presenters will participate in a question and answer session.

RETINA
Retina Sub-Specialty Session (02SU12)
Sunday, Oct. 28, 8:00 am-10:00 am
Michael Stewart, MD, Jacksonville, FL—Chair
Kelly Mitchell, MD, Lubbock, TX
Lawrence Morse, MD, Sacramento, CA
Stephen Schwartz, MD, Naples, FL

Prerequisite: A minimum of one year experience in a retina practice.

This session will provide an update on current concepts and technologies; new and emerging imaging technologies; treatments and new therapeutics; and surgical procedures and practices in the retina sub-specialty. Key retina topics will be covered such as advances in treatment of diabetic retinopathy; Swept Source Optical Coherence Tomography; advances in vitreoretinal surgery; and genetics in AMD, vein occlusions and the latest in retinal surgery procedures.

NEURO-OPHTHALMOLOGY
Neuro-Ophthalmology Sub-Specialty Session (02SU45)
Sunday, Oct. 28, 11:30 am-1:30 pm
Jonathan Collins, MD, Kensington, MD
Richard Allen, MD, PhD, FACS, Houston, TX
Rosa Tang, MD, FAAO, MPH, MBA, Houston, TX
Michael Vaphiades, DO, Birmingham, AL

The Neuro-Ophthalmology Sub-Specialty Session will feature common neuro-ophthalmic conditions and treatment options. The session will present the following topics: 1) I Have a Headache; 2) Horner’s Syndrome; 3) Optic Neuritis; and 4) Facial Nerve Palsy: Time Bomb for the Eye!
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<tr>
<th>Room</th>
<th>8:00 am-8:50 am</th>
<th>9:10 am-10:00 am</th>
<th>10:20 am-11:10 am</th>
<th>11:30 am-12:00 pm</th>
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<tr>
<td>Grand Ballroom A</td>
<td><strong>01FR1</strong> Get the 411 on Billing Testing Services</td>
<td><strong>01FR2</strong> Making ICD-10 Your BFF for Payment</td>
<td><strong>01FR3</strong> Updates on Minimally Invasive Glaucoma</td>
<td><strong>01FR4</strong> Grand Rounds Case Presentation: Optics</td>
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<td>Grand Ballroom B</td>
<td><strong>NEW! 02FR1</strong> ReLex SMILE (Advanced) Manche</td>
<td><strong>NEW! 02FR23</strong> Cornea and Refractive Sub-Specialty</td>
<td><strong>NEW! 03FR4</strong> The Evaluation of the Patient with</td>
<td><strong>NEW! 03FR4</strong> Corneal Procedures for Today and</td>
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<td>Grand Ballroom CD</td>
<td><strong>03FR1</strong> To Treat or Not to Treat: Evaluation of</td>
<td><strong>NEW! 03FR2</strong> Master Mystery: Glaucoma Suspect</td>
<td><strong>NEW! 04FR3</strong> OCT: Anatomy of a Scan (Intermediate)</td>
<td><strong>NEW! 04FR4</strong> Integrating Artificial Intelligence</td>
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<tr>
<td>(North)</td>
<td>the Glaucoma Suspect (Advanced) Miller-Ellis</td>
<td>Investigations (Masters) Miller-Ellis</td>
<td>(Intermediate) Bennett</td>
<td>to Advance Ophthalmic Care (Masters) Chiang</td>
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<td>Grand Ballroom CD</td>
<td><strong>NEW! 04FR1</strong> The Red Eye (Advanced) Rolain</td>
<td><strong>NEW! 04FR2</strong> Anterior Segment Imaging with</td>
<td><strong>NEW! 05FR3</strong> Extended Depth of Focus (Intermediate)</td>
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<td>(South)</td>
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<td>Retinal Cameras (Intermediate) Bennett</td>
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<td>Grand Ballroom EF</td>
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<td><strong>05FR2</strong> Top 10 Reasons Not to Dilate a Patient</td>
<td><strong>NEW! 06FR3</strong> For the Love of Lensometry (Intermediate)</td>
<td><strong>NEW! 06FR4</strong> Middle Management: Now What? (Intermediate)\n</td>
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<td><strong>06FR1</strong> Equipment Repair and Maintenance (Basic)</td>
<td><strong>06FR2</strong> Repair and Maintenance of Phoropters</td>
<td><strong>NEW! 07FR2</strong> Optics Review: The Fun and Necessary</td>
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<td>Hunter</td>
<td>(Intermediate) Hunter</td>
<td>Optical Concepts (Intermediate) Hansen</td>
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<td>Columbus KL</td>
<td><strong>07FR1</strong> Visual Field Testing (Intermediate)</td>
<td><strong>NEW! 07FR2</strong> Optics Review: The Fun and Necessary</td>
<td><strong>NEW! 07FR3</strong> Getting to the Root of the Matter:</td>
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<td>Hansen</td>
<td>Optical Concepts (Intermediate) Hansen</td>
<td>Growing Your Ophthalmology Vocabulary (Basic)</td>
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<td>Columbus EF</td>
<td><strong>NEW! 08FR1</strong> Neuroimaging in Ophthalmology</td>
<td><strong>08FR2</strong> Facial Paralysis and Facial Dystonias</td>
<td><strong>08FR3</strong> Neuro-Ophthalmology Testing (Intermediate)</td>
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<td>Columbus A</td>
<td><strong>09FR12W</strong>—LEARNING LAB Lenstar Optical Biometry</td>
<td><strong>09FR2W</strong>—LEARNING LAB Ultrasound Biometry (A-Scan)</td>
<td><strong>09FR4W</strong>—LEARNING LAB Keratometry (Basic) Gill</td>
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<td><strong>10FR2W</strong>—LEARNING LAB Ultrasound Biometry (A-Scan)</td>
<td><strong>10FR45W</strong>—LEARNING LAB Neuro-Tech (Intermediate)</td>
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<td>(Basic) Loyacano</td>
<td>(Intermediate) Schmits</td>
<td>Shukla (Page 57)</td>
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<td>Columbus G</td>
<td>**11FR12—LEARNING LAB Soft Contact Lens Skills</td>
<td><strong>11FR3 (10:15 am-11:45 am)</strong> Ophthalmic Study</td>
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<td>Transfer Lab (Intermediate) Donshik</td>
<td>Coordinator Roundtable (Intermediate) Hatis</td>
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<td>Columbus H</td>
<td><strong>12FR2W</strong>—LEARNING LAB Ultrasound Biometry (A-Scan)</td>
<td><strong>12FR3W</strong>—LEARNING LAB Ultrasound Biometry (A-Scan)</td>
<td><strong>12FR4W</strong>—LEARNING LAB Ultrasound Biometry (A-Scan)</td>
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<td><strong>13FR12W</strong>—LEARNING LAB Retinoscopy: Plus Cylinder</td>
<td><strong>13FR45W</strong>—LEARNING LAB Retinoscopy: Plus Cylinder</td>
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<td>12:40 pm-1:30 pm</td>
<td>01FR5 Pump Up Your Techs! (Basic) Delaney (Page 34)</td>
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<td>1:50 pm-2:40 pm</td>
<td>NEW! 01FR6 One Camera: 9 Imaging Modalities (Intermediate) Gilman (Page 48)</td>
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<td>NEW! 02FR56 Low Vision Sub-Specialty Session (Basic) Pusateri (Page 53)</td>
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<td>NEW! 03FR5 Silt Lamp Biomicrography (Intermediate) Gilman (Page 50)</td>
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<td>04FR5 Intraocular Tumors Ultrasound Evaluation (Advanced) Bretana (Page 49)</td>
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<td>3:00 pm-3:50 pm</td>
<td>NEW! 06FR5 Wacky Eye Movements: Dangerous, Debilitating or Dubious? (Advanced) Golnik (Page 44)</td>
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<td>06FR6 History Taking in a Retina Specialty Practice (Intermediate) Busch (Page 36)</td>
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<td>NEW! 07FR6 The Importance of the Technician's Role in the Ophthalmic Exam (Intermediate) Stewart (Page 36)</td>
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<td>NEW! 08FR5 The Technician's Role in Eye Banking (Intermediate) Carter (Page 40)</td>
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<td>09FR5W—LEARNING LAB Keratometry (Basic) Crabtree (Page 54)</td>
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<td>09FR67W—LEARNING LAB Comprehensive Lensoemetry Lecture and Lab (Basic) Johnson (Page 54)</td>
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<td>10FR7W—LEARNING LAB Overview of Low Vision Devices: Avoid the Pain, Enjoy the Gain! (Basic) Porter (Page 55)</td>
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<td>12FR5W—LEARNING LAB Ultrasound Biometry (A-Scan) (Intermediate) Boush (Page 58)</td>
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<td>12FR6W—LEARNING LAB Ultrasound Biometry (A-Scan) (Intermediate) Schmidt (Page 58)</td>
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<td>13FR67W—LEARNING LAB Retinoscopy: Minus Cylinder (Intermediate) Norath (Page 57)</td>
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Friday Day-at-a-Glance

10/26/18

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# Saturday Day-at-a-Glance

## Information Technology and Big Data in Eye Care

**Featuring Michael Chiang, MD**

Join Dr. Chiang as he discusses how advances in information technology and big data affect the practice of ophthalmology and learn about the potential for these technologies to improve the quality, cost, and delivery of eye care.

*Seating is limited and an admission ticket is required. If you plan to attend, check the appropriate box on your registration form.*

1 **GROUP A**  
IJCAHPO CREDIT  
Grand Ballroom EF

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<td>Electrophysiology for Technicians: What is ERG, VEP, and EOG? (Intermediate) Zhu (Page 46)</td>
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<td>01SAS6 OCT Angiography with Cirrus HD-OCT (Intermediate) McKeehen (Page 48)</td>
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NEW! 03SAS6 I’m Tearing: How Can This be Dry Eye? (Advanced) Massaro-Giordano (Page 38)

NEW! 03SAS7 DISASTER STRIKES! Prepare, Respond then Face the Music (Basic) Hartsis (Page 34)

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NEW! 04SAS7 Clinical Efficiency Through Lean Six Sigma Methodology (Basic) Hunter (Page 34)

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12SAS6W—LEARNING LAB UBM (Basic) Simms (Page 56)

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<td>NEW! 01SU2 Testing for Premium IOls</td>
<td>01SU3 Technician Clinical Efficiency</td>
<td>01SU4 Finding Your Inner Child: Tips for</td>
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<td>Perimetry Phobia: Don’t Fear the Field (Intermediate) Turman (Page 49)</td>
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Pine Brook, NJ 07058
www.diopsys.com

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www.ellex.com

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Elgin, IL 60123
www.good-lite.com

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3222 Phoenixville Pike, Building #50
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Arlington, WA 98223
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3362 Walden Ave., Suite 100
Depew, NY 14043
www.reichert.com
Welcome to the 33rd Annual Scientific Session, Grand Rounds, Certification Examination Review Courses and Train the Trainer

ATPO is devoted exclusively to the education and professional growth of Allied Ophthalmic Personnel (AOP). Our success is due to the strength of our members who work through ATPO to meet the demands of their careers as the field of ophthalmology continues to evolve and expand. Become a member today and enjoy a discounted rate to attend the Scientific Session/Grand Rounds.

Our program is designed to provide a full range of continuing education, from basics to leading-edge updates in a two-day format, complete with meals and refreshments.

When you register for our program, you will enjoy our keynote speaker, fellow lecturer and our much-loved Super Tech game show with complimentary appetizers and drinks.

Let our team of expert lecturers help you accelerate your ophthalmic education. Register today.
VOLUNTEERING IN OPHTHALMOLOGY: DECADES OF EXPERIENCE

Elizabeth “Libba” Affel, COA, ROUB, CDOS, OCT-C has dedicated her life’s work and mission to ophthalmology regionally, nationally and internationally. In her current role, Libba is a Clinical Applications Specialist for the Phoenix Technology Group and brings widefield imaging to NICUs around the world.

Join Libba as she discusses her experiences volunteering in the field of eye care and ophthalmology, highlighting the challenges she has faced while supporting ophthalmic care in suboptimal conditions. Attendees will gain a greater understanding of how to apply basic to advanced-level skills outside of the standard clinical environment, and learn tips for interacting with patients, and provide visual assessments when language barriers are present. Libba’s keynote address will cover her decades of volunteer experiences and a lifetime of leadership as an allied ophthalmic professional.

A true philanthropist, Libba has been a regular volunteer at the annual Give Kids Sight Day in Philadelphia since the program’s inception along with the “Wills on Wheels” bus that provides eye screening in the Greater Philadelphia community. Libba has been a volunteer instructor for the Philadelphia Regional Ophthalmic Society, Wills Eye Hospital, OPS, ASORN, IJCAHPO and for many other causes. She has also volunteered for the past decade as an Advisory Board Member for the COT program at Camden College, and was a clinical site supervisor.

In recent years, she has expanded her scope of volunteerism to include international causes during a mission trip to Ecuador to help examine patients in need of surgeries. She also recently joined the team at Orbis for an educational mission to Yaoundé, Cameroon.

In her community, Libba has volunteered regularly to help homeless families through the NP Interfaith Hospitality Network. She has been a volunteer for Hosts for Hospitals for the past 15 years; opening up her home to more than 100 families from around the world who need to be near their sick loved ones.

You won’t want to miss Libba’s inspirational lecture!

ATPO Keynote Address
Saturday, October 27, 2018
9:30 am-10:30 am, Water Tower Room

TRAIN THE TRAINER: DEVELOPING TRAINING STRATEGIES THAT WORK

By attending this course, you will have the opportunity to learn from our faculty of highly skilled trainers with diverse training histories, experiences and leadership in the field of ophthalmology.

Learn how to:
• Get started in technician training
• Create value through training
• Be an effective trainer
• Increase student understanding
• Enhance training techniques

Friday, October 26, 8:00 am-4:30 pm
Gold Coast Suite
### Friday, October 26

<table>
<thead>
<tr>
<th>Time</th>
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| 8:00 am-9:00 am | **Your Next Career Step: Branding & Networking**  
MCDONALD, MCCORKLE  
Wrigley         |
| 8:00 am-11:00 am | **COA Written Certification Exam Review**  
PLESSINGER, BOHNER  
Columbian       |
| 8:00 am-11:30 am | **COT Written Certification Exam Review**  
LYKINS, WILSON  
Water Tower     |
| 8:00 am-11:30 am | **COMT Practical Exam Review**  
BUSCH, FOLEY, SHEA, WILLIS, WILSON  
Picasso         |
| 12:00 noon-2:00 pm | **COT Practical Certification Exam Review**  
DAKIN, CARPENTER  
Columbus G      |
| 12:00 noon-3:30 pm | **ROUB Written Certification Exam Review**  
KOCH  
Haymarket       |
| 12:00 noon-4:30 pm | **COMT Written Certification Exam Review**  
LAMELL, HANSEN  
Picasso         |
| 8:00 am-4:30 pm | **Train the Trainer: Developing Training Strategies That Work**  
BARR, FLAHERTY, JOST, MCDONALD, PARKER, SIMMS  
Gold Coast     |

### Saturday, October 27—Scientific Session

**Supported by Essilor of America, Inc.**

<table>
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<tr>
<th>Time</th>
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<tr>
<td>9:00 am-9:30 am</td>
<td><strong>Registration and Refreshments</strong></td>
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</table>
| 9:30 am-10:30 am | **Keynote Lecture—Volunteering in Ophthalmology: Decades of Experience**  
AFFEL            |
| 10:30 am-11:30 am | **IOL Calculations in the Premium Lens Environment: Before, During and After**  
GANS, KOCH, MAGAZZENI |
| 11:30 am-12:00 noon | **Oculofacial Surgery**  
BEARDEN          |
| 12:00 noon-1:00 pm | **Membership Luncheon**  
Comiskey         |
| 1:00 pm-1:30 pm | **Kenneth E. Woodworth, Jr. Fellow Lecture—Tales from a Full Eye Exam: The Art of the Skill**  
SHUKLA          |
| 1:30 pm-2:00 pm | **Who is On Your Team? Interprofessional Teams in Eye Care**  
ROVICK           |
| 2:00 pm-2:30 pm | **Glaucoma Surgical Update: Experience with Xen and Cypass**  
AEY             |
| 2:30 pm-3:00 pm | **Tips for Performing an Efficient Ophthalmic Work Up**  
CHAPA           |
| 3:00 pm-3:15 pm | **Break**                                                                                 |
| 3:15 pm-4:15 pm | **Chronic Dry Eye Disease: 80's Dance Party Style**  
PERIMAN          |
| 4:30 pm-6:00 pm | **Who Wants to be a Super Tech?**  
JOST             |

### Sunday, October 28—Grand Rounds

**Water Tower Room**

<table>
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<tr>
<td>7:30 am-8:00 am</td>
<td><strong>Continental Breakfast and Town Hall</strong></td>
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</table>
| 8:00 am-8:30 am | **A-B-See of Pediatric Exams**  
COLON          |
| 8:30 am-9:00 am | **OCT Angiography: What We've Learned**  
LANDRY         |
| 9:00 am-9:30 am | **Ophthalmic Innovations**  
GUYTON          |
| 9:30 am-10:00 am | **Update on Subretinal Umbilical Cell Therapy**  
RIEMANN        |
| 10:00 am-10:15 am | **Break**                                                                                 |
| 10:15 am-10:45 am | **Best Practices: A Formula for Success**  
ULLOM          |
| 10:45 am-11:15 am | **You've Gotta Lot of Nerve!**  
JOST           |
| 11:15 am-11:45 am | **Focusing on the Veteran: Teleretina in the VA**  
BLEDSAW        |
| 11:45 am-1:00 pm | **Lunch**                                                                                 |
| 2:00 pm-2:30 pm | **Glaucoma Surgical Update: Experience with Xen and Cypass**  
AEY             |
| 2:30 pm-3:00 pm | **Tips for Performing an Efficient Ophthalmic Work Up**  
CHAPA           |
| 3:00 pm-3:15 pm | **Break**                                                                                 |
| 3:15 pm-4:15 pm | **Chronic Dry Eye Disease: 80's Dance Party Style**  
PERIMAN          |
| 4:30 pm-6:00 pm | **Who Wants to be a Super Tech?**  
JOST             |

**ATPO’s Written and Practical Certification Exam Reviews**

- **Friday, October 26**
  - ATPO's Written and Practical Certification Exam Reviews
  - Train the Trainer: Developing Training Strategies That Work
  - CAN'T MISS EVENT!

**Kenneth E. Woodworth, Jr. Fellow Lecture**

**Tales from a Full Eye Exam: The Art of the Skill**
Saturday, October 27
1:00 pm

Featuring Aaron Shukla, PhD, COMT
Your Next Career Step: Branding & Networking (15FR1A)
Christine McDonald, COA, COE, ROUB, OSC, Fenton, MO
Brad McCorkle, Raleigh, NC
Friday, 8:00 am-9:00 am

Description: This course will educate participants on the topic of personal branding. How to cultivate and advance careers and stand out from competition in the ophthalmic industry will be explored. Participants will learn techniques to create a strong personal brand, how to build and maintain professional networks and the best way to represent themselves and their employer.

COA Written Certification Exam Review (AT-COA)
Veronica Plessinger, COT, Salem, OH
Jessica Brown, COT, Mohnton, PA
Friday, 8:00 am-11:00 am

Prerequisite: Basic knowledge of eye anatomy and physiology with a minimum of one year in ophthalmology is helpful. Participants should be able to demonstrate knowledge and comprehension of IJCAHPO COA content areas.

Description: IJCAHPO COA content areas will be reviewed and discussed in classroom format with the use of a PowerPoint® presentation, ending with a question and answer session. This course is meant to be a general review and is not designed to provide initial instruction in content areas. It is intended for those who anticipate taking the COA certification examination in the near future. This course is not intended for recertification credits.

COT Written Certification Exam Review (AT-COT)
Stephani Lykins, COT, Blanchester, OH
Joan Wilson, BS, COMT, OSC, Miamisburg, OH
Friday, 8:00 am-11:30 am

Prerequisite: COA certification required unless participant is a student enrolled in a COT program. Verification from the program director will be required.

Description: IJCAHPO COT content areas will be reviewed and discussed in classroom format with the use of a PowerPoint® presentation, ending with a question and answer session. Participants should be able to demonstrate knowledge and comprehension of IJCAHPO COT content areas.

COMT Practical Certification Exam Review (AT-COMT-P1)
Susan Busch, BA, COMT, Sarasota, FL
Elizabeth Foley, COMT, OSC, Mohrsville, PA
Jennifer Holt Wilson, COMT, Garden City, MI
Michelle Willis, COMT, OSA, OSC, Spring Hill, TN
Friday, 8:00 am-11:30 am

Prerequisite: Experience and understanding of testing procedures and equipment needed for the COMT level of certification. COMT certification is required, unless the participant is a student enrolled in a COMT program. Verification from the program director will be required.

Description: IJCAHPO COMT examination content areas will be reviewed and discussed. This course is designed to review selected testing procedures and skills equivalent to the areas for the COMT level of certification. Areas covered will include version/duction, measuring strabismus, pupil function, fundus photography and neutralizing spectacles. This course is intended to be a review of the above skills and equipment used. It is not an introductory workshop and will not cover every procedure and skill equivalent for the COMT level of certification.

COT Practical Certification Exam Review (AT-COT-P1)
Sonya Dakin, COT, West End, NC
Mona Carpenter, BS, COMT, Frankfort, KY
Friday, 12:00 pm-2:00 pm

Prerequisite: IJCAHPO COT examination content will be reviewed and discussed. COA certification required unless participant is a student enrolled in a COT program. Verification from the program director will be required.

Description: This course is designed to familiarize candidates for certification at the technician level with the computer-based skill simulation process currently utilized by IJCAHPO. Participants should be familiar with performing the following skills in clinical practice: keratometry, lensometry, tonometry and visual fields, in addition to having basic computer navigational skills. This workshop is intended to be a review of skills and equipment equivalent for the COT level of certification and is not an introductory workshop.

ROUB Written Certification Exam Review (AT-ROUB)
Beth Koch, COT, ROUB, Willoughby, OH
Friday, 12:00 pm-3:30 pm

Prerequisite: IJCAHPO ROUB content areas will be reviewed and discussed in classroom format with the use of a PowerPoint® presentation, ending with a question and answer session. Participants should be able to demonstrate knowledge and comprehension of IJCAHPO ROUB content areas. Areas covered will include the physics and exam techniques for biometry and the formulas to calculate intraocular lenses. It is intended to assist attendees who anticipate taking their ROUB exam in the near future.

COMT Written Certification Exam Review (AT-COMT)
Patricia Lamell, MEd, COMT, CO, OSC, Jacksonville, FL
Suzanne Hansen, MEd, COMT, OSC, Frisco, TX
Friday, 12:00 pm-4:30 pm

Prerequisite: IJCAHPO COMT content areas will be reviewed and discussed in classroom format with the use of a PowerPoint® presentation, ending with a question and answer session. Participants should be able to demonstrate knowledge and comprehension of IJCAHPO COMT content areas.
Train the Trainer: Developing Training Strategies that Work (16FR17A)

Jessica Barr, COMT, ROUB, Belmont Hills, PA
Sergina Flaherty, COMT, San Antonio, TX
Amy Jost, BS, COMT, CCRC, CTC, Cincinnati, OH
Christine McDonald, COA, ROUB, COE, Fenton, MO
Matthew Parker, PhD, COMT, LSSMBB, OSC, Durham, NC
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada

Friday, 8:00 am-4:30 pm  Credits: 2.5 A IJCAHPO*
Description: You will be provided with an organized strategy to help you create and implement effective, ophthalmic specific training methods in your practice. Topics will include identifying a good trainer, matching learning styles, utilizing effective training techniques, developing a systematic approach and evaluating the success of your training methods.

Financial interest disclosed

*IThe Train the Trainer course has been approved for 6.5 credit hours in Category A of the Certified Ophthalmic Executive (COE) credits by the National Board for the Certification of Ophthalmic Executives (NBCOE). The COE credential is the property of the American Society of Ophthalmic Administrators (ASOA) and is administered by the NBCOE.

Keynote Speaker—Volunteering in Ophthalmology: Decades of Experience (14SA2A)

Elizabeth Affel, COA, ROUB, CDOS, OCT-C, Wyndmoor, PA
Saturday, 9:30 am-10:30 am  Credits: 1 A IJCAHPO, AOC-NC, OPS 1:2
Description: Ms. Affels’s keynote address will highlight her experiences volunteering in the field of eye care and ophthalmology. By outlining the challenges faced while delivering ophthalmic care in sub-optimal conditions, the attendee will gain a greater understanding of how to apply basic to advanced level skills outside of the normal clinical environment, including visual assessment and patient care in non-English speakers.

Her accomplishments are amazing, her contributions are many and her impact has had an exponential impact on a global level.

Financial interest disclosed

IOL Calculations in the Premium Lens Environment: Before, During and After (14SA3A)

Richard Gans, MD, Cleveland, OH
Beth Koch, COT, ROUB, Willoughby, OH
Anna Magazzini, COMT, Lakewood, OH

Saturday, 10:30 am-11:30 am  Credits: 1 A IJCAHPO, AOC-NC
Description: This course will present different surgical cases and their management for premium lenses. Important steps in the diagnosis process and how the doctor determines a qualifying patient, what measurements are needed to calculate premium lenses, as well as pre-operative and patient management will be discussed.

Oculofacial Surgery (14SA4A)

William Bearden III, MD, FACS, Richmond, VA

Saturday, 11:30 am-12:00 pm  Credits: .5 A IJCAHPO, AOC-NC
Description: This course will provide an overview of important aspects related to the oculofacial exam and visit. Attendees will be able to recognize common oculofacial patient complaints.

Kenneth E. Woodworth, Jr. Fellow Lecture—Tales from a Full Eye Exam: The Art of the Skill (14SA5A1)

Aaron Shukla, PhD, COMT, Saint Paul, MN

Saturday, 1:00 pm-1:30 pm  Credits: .5 A IJCAHPO, AOC-NC
Description: This lecture will introduce advanced techniques in refraction and ocular motility, including use of the Dynamic Cross Cylinder Lens and Conoid of Sturm. Attendees will learn how to properly perform objective tests for Tropia and Phoria, as well as how to properly identify eye deviations using subjective patient responses.

Who is On Your Team? Interprofessional Teams in Eye Care (14SA5A2)

Lisa Rovick, MHSc, COMT, CO, Minneapolis, MN

Saturday, 1:30 pm-2:00 pm  Credits: .5 A IJCAHPO, AOC-NC, OPS 1:2
Description: This presentation will outline the basic features of interprofessional health care teams in the context of eye care. Cases will be described to illustrate how teams can improve the patient experience while improving efficiency. The roles and responsibilities of professionals and how they interact in different situations will be provided. Examples of conditions where interprofessional teams benefit patients include: diabetes; traumatic brain injury; prematurity and developmental delay; macular degeneration and others.

Glaucoma Surgical Update: Experience with Xen and Cypass (14SA6A1)

John Aey, MD, Youngstown, OH

Saturday, 2:00 pm-2:30 pm  Credits: .5 A IJCAHPO, AOC-NC
Description: This course will provide a review of the two newer MIGS procedures, Xen and Cypass. Attendees will be able to identify patients who might be potential surgical candidates; identify potential side effects and complications, and become familiar with postoperative management for these procedures.

THANK YOU 2018 CORPORATE AND ORGANIZATIONAL DONORS
Tips for Performing an Efficient Ophthalmic Work Up (14SA6A2)
Roel Chapa Jr., COT, OSA, San Antonio, TX
Saturday, 2:30 pm-3:00 pm Credits: .5 A IJCAHPO, AOC-NC
Description: In this course, the instructor will present the easiest ways for technicians to perform their tasks without losing quality of patient care. These tips and shortcuts will allow most technicians to streamline the harder tasks of their work up process. Aspects of a typical ophthalmic work up will be covered as well as key pointers for special testing.

Chronic Dry Eye Disease: 80’s Dance Party Style (14SA7A)
Laura Periman, MD, Seattle, WA
Saturday, 3:15 pm-4:15 pm Credits: 1 A IJCAHPO, AOC-NC
Description: This session will explore the fascinating subject of chronic dry eye disease. Dry eye concepts will be presented through fun analogies and relevant, thematic musical highlights. Attendees will learn dry eye disease processes and how to communicate with patients. Education and compliance issues related to the disease will also be discussed.

Who Wants to be a Super Tech? (AT-SUP)
Amy Jost, BS, COMT, CCRC, CTC, Cincinnati, OH
Saturday, 4:30 pm-6:00 pm Credits: 1.5 IJCAHPO, AOC-NC
Description: This session is a fun game-show like event that features questions from various areas of the IJCAHPO certification examination content. This year’s session will have an 80’s theme. All levels of difficulty will be covered. Prizes and recognition will be awarded to all participants.

OCT Angiography: What We’ve Learned (14SU1A2)
Darrin Landry, COA, CRA, OCT-C, Saco, ME
Sunday, 8:30 am-9:00 am Credits: .5 A IJCAHPO, AOC-NC
Description: OCT Angiography is still a relatively new imaging modality. Much about how images are created and how it relates to other standard imaging is not well known in wider ophthalmic circles. This lecture will discuss the science behind OCT-A and typical findings of anatomy and pathology found on OCT-A.

Ophthalmic Innovations (14SU2A1)
David Guyton, MD, Baltimore, MD
Sunday, 9:00 am-9:30 am Credits: .5 A IJCAHPO, AOC-NC
Description: Innovative optical techniques and devices will be described and illustrated to enable improved examination of patients. How to identify dragged-fovea diplopia syndrome and causes of bag-of-glasses syndrome will be discussed. Attendees will learn how to refract patients with subnormal vision and acquire optical tricks for better examination of patients.
Behind the Nerve of it All (14SU6A2)
Richard Johnson, COA, OPS, Joliet, IL
Sunday, 2:45 pm-3:15 pm
Credits: .5 A IJCAHPO, AOC-NC, OPS 1:1
Description: This course will cover interesting and unusual retinal and optic nerve cases, showing a multitude of images from optic nerve head drusen, papilledema and retinal drusen. Attendees will learn how to clearly lend information to their doctor and understand the significance of history taking and photography.

Cornea Conundrums: Interesting Clinical Cases (14SU7A1)
Kasey Pierson, MD, Richmond, VA
Sunday, 3:15 pm-3:45 pm
Credits: .5 A IJCAHPO, AOC-NC
Description: This course will present cases of interesting corneal disease processes. How to formulate an appropriate differential diagnosis for corneal diseases will be discussed. Attendees will also learn how to identify key clinical signs and symptoms of corneal disease processes.

Roles and Functions of the Ophthalmic Technician in the Dry Eye Clinic (14SU7A2)
Martha Tello, COMT, OSC, Aventura, FL
Roel Chapa Jr., COT, OSA, San Antonio, TX
Sunday, 3:45 pm-4:15 pm
Credits: .5 A IJCAHPO, AOC-NC
Description: With this course, participants will get a clear view of what goes on in the dry eye therapy clinic. Instructors will give a thorough definition of Dry Eye Syndrome and Meibomian Gland Dysfunction. Attendees will learn how to identify the need to perform a dry eye evaluation and which diagnostic tests to use for Dry Eye Syndrome and Meibomian Gland Disease.
Take the guesswork out of pupil testing with our NEW APD Tester™

WHAT IS GOOD-LITE’S APD TESTER?
The APD Tester™ is a hand-held, portable, unit that magnifies both eyes and superimposes them for the examiner. Sequentially shine the built-in LED lights, and easily detect relative afferent pupillary defects.

If a positive APD is found, step-wise decrease in the light level directed to the normal eye determines the level of log units that best neutralizes the defect.

The built-in UV lights help in differential diagnosis of corneal abrasions versus foreign body or corneal ulcer, where a slit lamp is not readily available.

A great tool for teaching pupil testing to a new technician, or a doctor in training!

Learn More; Visit Our Booth Today!
CLSA Contact Lens Symposium

CLSA’s mission is dedicated to the education, promotion and advancement of the contact lens profession.

This one-day symposium will feature world-renowned faculty, providing two educational sessions.

The morning session will cover soft and corneal rigid gas permeable contact lens evaluations in the office, as well as important tips and pearls for evaluating and dispensing contact lenses in an ophthalmology practice. The afternoon session will delve into more advanced contact lens topics including corneal topography in a contact lens practice and specialty contact lenses.

Become a member today and enjoy a discounted rate on CLSA’s Contact Lens Symposium. Register for the morning, afternoon, or both Saturday sessions.

Register for CLSA Contact Lens Symposium using the registration form (pages 5-6) or online at www.jcahpo.org/ACE.
Registration Available for Half Day (Morning or Afternoon) or Full Day

Lunch not provided.

Register today! The CLSA Contact Lens Symposium provides valuable information on contact lenses that you can take back and apply in your workplace.

9:10 am-12:45 pm  
Credits: 4 A IJCAHPO*

50 Shades of Contact Lenses: Part 1  
Columbian

Wendy Ford, FCLSA, COMT, Springfield, VA
Jane Beeman, FCLSA, Fairport, NY
Phyllis Rakow, FCLSA, COMT, Kendall Park, NJ
Buddy Russell, FCLSA, COMT, Loganville, GA

Description: This session will cover soft and corneal rigid gas permeable contact lens evaluations in the office, as well as important tips and pearls for evaluating and dispensing contact lenses in an ophthalmology practice. Learn how size matters in choosing the right custom soft contact lens, and how not to be afraid of interpreting that fluorescein pattern.

9:10 am-10:00 am  
Custom Soft Lenses: Size Matters

10:05 am-10:55 am  
Fluorescein Patterns and Fitters Who Love Them

11:00 am-11:50 am  
Improving Lubricity: Material, Coating and Solution Update

11:55 am-12:45 pm  
Nothing but Pearls: Successful Contact Lens Patients

12:45 pm-1:20 pm  
Break

1:20 pm-5:00 pm  
Credits: 4 A IJCAHPO*

50 Shades of Contact Lenses: Part 2  
Columbian

Wendy Ford, FCLSA, COMT, Springfield, VA
Jane Beeman, FCLSA, Fairport, NY
Phyllis Rakow, FCLSA, COMT, Kendall Park, NJ
Buddy Russell, FCLSA, COMT, Loganville, GA

Description: This session will delve into more advanced contact lens topics including corneal topography in a contact lens practice and specialty contact lenses. Interesting case studies and practical applications of orthokeratology, scleral and hybrid contact lenses will be discussed.

1:20 pm-2:10 pm  
How to use Topography in a Contact Lens Practice

2:15 pm-3:05 pm  
Hot New Kid on the Block: RGP’s & Ortho-K

3:10 pm-4:00 pm  
Slip into Something Comfortable: Scleral Lenses

4:05 pm-4:55 pm  
Bonded with Hybrids

*These courses have been submitted to IJCAHPO and ABO-NCLE for continuing education credit.

CLSA Faculty Presenters

Wendy Ford, FCLSA, COMT  
President, CLSA  
Contact Lens Specialist  
Eye Consultants of Northern Virginia, Springfield, VA

Jane Beeman, FCLSA  
Immediate Past-President, CLSA  
Director of Professional Services  
Euclid Systems Corporation, Rochester, NY

Phyllis Rakow, FCLSA, COMT  
Contact Lens Technician  
The Princeton Eye Group, Princeton, NJ

Buddy Russell, FCLSA, COMT  
Contact Lens Technologist  
The Thomas Eye Group, Atlanta, GA

CLSA is more than a membership society. It is a group of focused, passionate, and knowledgeable individuals, who share their experiences and learn from one another. CLSA holds educational meetings, provides online continuing education courses, publishes textbooks, has a quarterly journal on contact lens topics, and offers career development through the Fellow Program, CLSA’s most prestigious level of achievement.

Join a community, increase your knowledge, expand your career, and much more.

www.clsa.info
## 2018 Faculty

Thank you!

IJAHPHO, ATPO and CLSA gratefully acknowledge the following instructors and co-instructors, and thank them for sharing their time, talent, and knowledge.

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<td><strong>CAJARES, CAROL, DNP, CRNA</strong></td>
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<td><strong>ABRAMOFF, MICHAEL, MD, PHD,</strong></td>
<td><strong>BARRIS, JESSICA, COT,</strong></td>
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<td><strong>AYE, JOHN, MD,</strong></td>
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<td><strong>ALACCI, NICOLE, COT,</strong></td>
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## Categories-at-a-Glance

### 1. Administrative/Practice Management

**BASIC**
- **Fri, 12:40-1:30** 01FR5: Pump Up Your Techs! 34
- **Fri, 3:00-3:50** 02FR7: Ten Steps to a Phenomenal Patient Experience 34
- **Sat, 11:30-12:20** 07SA4: NEW! Setting Up an Office Procedure Room: A Primer 34

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- **Fri, 11:30-12:20** 06FR4: NEW! Middle Management: Now What? 35
- **Fri, 3:00-3:50** 04FR7: NEW! Maximizing Clinical Efficiency for Maximum Results 35

**ADVANCED**
- **Fri, 8:00-8:50** 05FR1: NEW! Optimizing Patient Flow for Technicians and Nurses 35
- **Sat, 11:30-12:20** 04SA7: NEW! MIPS: The Nuts and Bolts of Quality Measures 35

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- **Sun, 8:00-8:50** 03SU1: Name That Modifier! 36
- **Sun, 10:20-11:10** 03SU3: Tips for An Effective Billing Office 36
- **Sun, 12:40-1:30** 07SU5: Eye Evaluation and Triage 35

**INTERMEDIATE**
- **Fri, 8:00-8:50** 01FR1: Get the 411 on Billing Testing Services 36
- **Fri, 9:10-10:00** 01FR2: Making ICD-10 Your BFF for Payment 36
- **Sun, 11:30-12:20** 03SU4: Technician’s Role in Internal Chart Audits 36
- **Sun, 15:0-3:50** 13SU67: Intermediate Coding Session 36

**ADVANCED**
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- **Fri, 12:40-2:40** 07FR56: The Importance of the Technician’s Role in the Ophthalmic Exam 36
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- **Sun, 3:00-3:50** 06SU7: If You Had a Broken Leg, I Could Help You 36

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**BASIC**
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- **Fri, 11:30-12:20** 03FR4: NEW! The Evaluation of the Patient with Double Vision 38
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<td>Fri, 12:40-1:30</td>
<td>06FR5</td>
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<td>Sat, 12:40-1:30</td>
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<td>Sun, 3:00-3:50</td>
<td>08SU7</td>
</tr>
<tr>
<td>13. Pediatrics</td>
<td>BASIC</td>
<td>Sat, 3:00-3:50</td>
<td>07SA7</td>
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<td>INTERMEDIATE</td>
<td>Sat, 10:20-11:10</td>
<td>01SA3</td>
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<td>Sat, 3:00-3:50</td>
<td>01SA7</td>
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<td>Sun, 11:30-12:20</td>
<td>01SU4</td>
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<td>ADVANCED</td>
<td>Fri, 10:20-11:10</td>
<td>03FR3</td>
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### 14. Ocular/Systemic Diseases

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<tr>
<th>DAY &amp; TIME</th>
<th>COURSE CODE</th>
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<tbody>
<tr>
<td>Fri, 3:00-3:50</td>
<td>06FR7</td>
<td>Ocular Manifestations of Sleep Apnea</td>
<td>45</td>
</tr>
<tr>
<td>Fri, 3:00-3:50</td>
<td>07FR7</td>
<td><strong>NEW!</strong> AIDS and the Ophthalmic Practice</td>
<td>45</td>
</tr>
<tr>
<td>Sat, 9:10-10:00</td>
<td>08SA2</td>
<td>Ophthalmic Pathology &amp; Oncology</td>
<td>45</td>
</tr>
<tr>
<td>Sat, 12:40-1:30</td>
<td>03SA5</td>
<td>What Is This? Ocular Findings in Systemic Disease</td>
<td>45</td>
</tr>
<tr>
<td>Sun, 9:10-10:00</td>
<td>04SU2</td>
<td>The Effect of Non-Ocular Cancers in the Eye and Ocular Adnexa</td>
<td>45</td>
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</table>

**ADVANCED**

| Sun, 3:00-3:50 | 03SU7 | Ocular Toxicity from Systemic Medications               | 45 |

### 15. Diagnostic Testing/Imaging

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<thead>
<tr>
<th>DAY &amp; TIME</th>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
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<tbody>
<tr>
<td>Fri, 9:10-10:00</td>
<td>04FR2</td>
<td><strong>NEW!</strong> Anterior Segment Imaging with Retinal Cameras</td>
<td>46</td>
</tr>
<tr>
<td>Fri, 10:20-11:10</td>
<td>04FR3</td>
<td><strong>NEW!</strong> OCT: Anatomy of a Scan</td>
<td>48</td>
</tr>
<tr>
<td>Fri, 10:20-11:10</td>
<td>06FR3</td>
<td><strong>NEW!</strong> For the Love of Lensometry</td>
<td>46</td>
</tr>
<tr>
<td>Fri, 1:50-2:40</td>
<td>01FR6</td>
<td><strong>NEW!</strong> One Camera: 9 Imaging Modalities</td>
<td>48</td>
</tr>
<tr>
<td>Fri, 3:00-3:50</td>
<td>01FR7</td>
<td>Better One or Two?</td>
<td>46</td>
</tr>
<tr>
<td>Fri, 3:00-3:50</td>
<td>03FR7</td>
<td><strong>NEW!</strong> Slit Lamp Biomicroscopy: Do you really understand how your slit lamp works?</td>
<td>48</td>
</tr>
<tr>
<td>Sat, 10:20-11:10</td>
<td>08SA3</td>
<td>Electrophysiology for Technicians: What is ERG, VEP and EOG?</td>
<td>46</td>
</tr>
<tr>
<td>Sat, 1:50-2:40</td>
<td>01SA6</td>
<td>OCT Angiography with Cirrus HD-OCT</td>
<td>48</td>
</tr>
<tr>
<td>Sun, 9:10-10:00</td>
<td>01SU2</td>
<td><strong>NEW!</strong> Testing for Premium IOLs with OCT and Topography</td>
<td>48</td>
</tr>
<tr>
<td>Sun, 10:20-11:10</td>
<td>04SU3</td>
<td><strong>NEW!</strong> Comparing Diagnostic Function and Structure Tests and Electrophysiology</td>
<td>46</td>
</tr>
<tr>
<td>Sun, 1:50-2:40</td>
<td>04SU6</td>
<td><strong>NEW!</strong> B-Scan Probe Positioning Protocol for a Comprehensive Screening Ultrasound Exam</td>
<td>46</td>
</tr>
<tr>
<td>Sun, 1:50-2:40</td>
<td>06SU6</td>
<td><strong>NEW!</strong> Angiography</td>
<td>46</td>
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</table>

**ADVANCED**

| Fri, 12:40-1:30 | 04FR5 | Intraocular Tumors Ultrasound Evaluation                | 49 |
| Sat, 9:10-10:00  | 04SA2 | **NEW!** The Dawn of OCT-A: Is Sodium Fluorescein Angiography Dead? | 49 |
| Sat, 11:30-12:20 | 08SA4 | **NEW!** Demystifying Intracocular Tumors Ultrasound: Principles and Pearls to Success | 48 |
| Sat, 12:40-1:30  | 08SA5 | Fundamentals of UBM Imaging: A Practical Approach for the Technician | 48 |
| Sat, 1:50-2:40  | 04SA6 | Descriptive Interpretation of FA                       | 48 |
| Sun, 11:30-12:20 | 04SU4 | Anterior Segment Pathology Imaged with UBM              | 48 |

### 16. Visual Fields

<table>
<thead>
<tr>
<th>DAY &amp; TIME</th>
<th>COURSE CODE</th>
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<tbody>
<tr>
<td>Sun, 1:50-2:40</td>
<td>07SU6</td>
<td>Visual Pathway and the Visual Field</td>
<td>49</td>
</tr>
</tbody>
</table>

**INTERMEDIATE**

| Fri, 8:00-8:50  | 07FR1 | Visual Field Testing                                    | 49 |
| Sun, 10:20-11:10 | 08SU3 | **NEW!** Goldmann Visual Field Testing                  | 49 |
| Sun, 3:00-3:50  | 04SU7 | Perimetry Phobia: Don't Fear the Field                  | 49 |

### 17. Instruments and Specialized Tests

**INTERMEDIATE**

| Fri, 12:40-1:30 | 03FR5 | Slit Lamp Biomicrography                                 | 50 |

### 18. Contact Lenses/Spectacles/Optical Dispensing

**INTERMEDIATE**

| Fri, 8:00-10:00  | 11FR12 | Soft Contact Lens Skills Transfer Lab                  | 50 |
| Fri, 11:30-12:20 | 08FR4 | Specialty Contact Lenses and Ophthalmology             | 50 |
| Sun, 10:20-11:10 | 06SU3 | What?? I Have an Rx Check?                             | 50 |

### 19. Visual Assessment and Therapy

**INTERMEDIATE**

| Fri, 1:50-2:40  | 05FR6 | Pupils: What is Normal and What is Not                  | 51 |
| Sat, 12:40-1:30 | 07SA5 | What They See is What YOU Should Get! Tips on Measuring Visual Acuity | 51 |
| Sun, 12:40-1:30 | 05SU5 | **NEW!** RAPD: How to Do It and What It Means            | 51 |

### 20. Masters Courses

**MASTER LEVEL**

| Fri, 9:10-10:00  | 03FR2 | **NEW!** Master Mystery: Glaucoma Case Investigations   | 52 |
| Fri, 9:10-10:00  | 08FR2 | Facial Paralysis and Facial Dystonias                   | 52 |
| Fri, 10:20-11:10 | 05FR3 | **NEW!** Extended Depth of Field Optics in the Symfony Intraocular Lens | 52 |
| Fri, 11:30-12:20 | 01FR4 | Grand Rounds Case Presentation: Optics and Difficult Refractions | 52 |
| Fri, 11:30-12:20 | 04FR4 | **NEW!** Integrating Artificial Intelligence to Advance Ophthalmic Care | 52 |
| Fri, 11:30-12:20 | 05FR4 | Grand Rounds Case Presentation: Retina                  | 52 |
| Fri, 1:50-2:40  | 03FR6 | **NEW!** We See, But Do We Observe? Solving Challenging Neuro-Op Cases | 53 |
| Fri, 1:50-2:40  | 08FR6 | Grand Rounds Case Presentation: Neuro-Ophthalmology     | 52 |
| Sat, 9:10-10:00  | 03SA2 | Mystery Retina 2018: Interactive Discussion of Challenging Cases | 53 |
| Sat, 10:20-11:10 | 03SA3 | Clinical Trials Update 2018                            | 51 |
| Sat, 12:40-1:30 | 02SA5 | **NEW!** Insights and Innovation: Current Trends and Topics in Ophthalmology | 52 |
| Sat, 1:50-2:40  | 08SA6 | Investigational Pharmacotherapy for Chorioretinal Vascular Conditions | 52 |
| Sun, 3:00-3:50  | 08SA7 | Grand Rounds: Case Studies in Ophthalmic Ultrasound     | 52 |
| Sun, 3:00-3:50  | 05SU7 | My Vision Goes In and Out: So What Does That Mean?      | 53 |
### Categories-at-a-Glance

**21. Sub-Specialty Sessions**

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<th>DAY &amp; TIME</th>
<th>COURSE CODE</th>
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<tr>
<td>Fri, 12:40-2:40</td>
<td>02FR56</td>
<td><strong>NEW!</strong> Low Vision</td>
<td>53</td>
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<tr>
<td>Sat, 9:10-11:10</td>
<td>02SA23</td>
<td>Scribing: The Physician’s Partner in Delivering Efficient Patient Care</td>
<td>53</td>
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<td><strong>INTERMEDIATE</strong></td>
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<tr>
<td>Fri, 9:10-11:10</td>
<td>02FR23</td>
<td><strong>NEW!</strong> Cornea and Refractive</td>
<td>53</td>
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<tr>
<td>Sat, 1:50-3:50</td>
<td>02SA67</td>
<td>Practice Management</td>
<td>53</td>
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<tr>
<td>Sun, 8:00-10:00</td>
<td>02SU12</td>
<td>Retina</td>
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<tr>
<td>Sun, 11:30-1:30</td>
<td>02SU45</td>
<td>Neuro-Ophthalmology</td>
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### 22. Learning Labs (continued)

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<tr>
<td>Fri, 8:00-10:00</td>
<td>10FR12W</td>
<td>Surgical Assisting</td>
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<tr>
<td>Fri, 11:30-12:20</td>
<td>09FR4W</td>
<td>Keratometry</td>
<td>54</td>
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<tr>
<td>Fri, 12:40-1:30</td>
<td>09FR5W</td>
<td>Keratometry</td>
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<tr>
<td>Fri, 1:50-3:50</td>
<td>09FR67W</td>
<td>Comprehensive Lensometry Lecture and Lab</td>
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<tr>
<td>Fri, 3:00-5:00</td>
<td>10FR7W</td>
<td>Overview of Low Vision Devices: Avoid the Pain, Enjoy the Gain!</td>
<td>55</td>
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<tr>
<td>Sat, 9:10-10:00</td>
<td>10SA2W</td>
<td>Anatomy and Dissection of the Eye</td>
<td>54</td>
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<tr>
<td>Sat, 10:20-11:10</td>
<td>10SA3W</td>
<td>Anatomy and Dissection of the Eye</td>
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<td>Sat, 11:30-12:20</td>
<td>10SA4W</td>
<td>Anatomy and Dissection of the Eye</td>
<td>54</td>
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<tr>
<td>Sat, 12:40-1:30</td>
<td>10SA5W</td>
<td>Anatomy and Dissection of the Eye</td>
<td>54</td>
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<td>Sat, 1:50-2:40</td>
<td>12SA6W</td>
<td>UBM</td>
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<td>UBM</td>
<td>56</td>
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<tr>
<td>Sun, 8:00-8:50</td>
<td>09SU1W</td>
<td>Tonometry</td>
<td>55</td>
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<tr>
<td>Sun, 8:00-10:00</td>
<td>10SU12W</td>
<td>Ocular Motility: Identifying and Measuring Deviations</td>
<td>54</td>
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<tr>
<td>Sun, 8:00-10:00</td>
<td>12SU12W</td>
<td>Refraction: Plus Cylinder</td>
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<tr>
<td>Sun, 10:20-12:20</td>
<td>12SU34W</td>
<td>Refraction: Minus Cylinder</td>
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<tr>
<td>Sun, 12:40-1:30</td>
<td>10SU5W</td>
<td><strong>NEW!</strong> Pupil Exam</td>
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<td>Sun, 1:50-2:40</td>
<td>09SU6W</td>
<td>Tonometry</td>
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<tr>
<td>Fri, 8:00-10:00</td>
<td>09FR12W</td>
<td>Lenstar Optical Biometry</td>
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<tr>
<td>Fri, 8:00-10:00</td>
<td>13FR12W</td>
<td>Retinoscopy: Plus Cylinder</td>
<td>57</td>
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<tr>
<td>Fri, 9:10-10:00</td>
<td>12FR2W</td>
<td>Ultrasound Biometry (A-Scan)</td>
<td>58</td>
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<tr>
<td>Fri, 10:20-11:10</td>
<td>12FR3W</td>
<td>Ultrasound Biometry (A-Scan)</td>
<td>58</td>
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<tr>
<td>Fri, 11:30-1:30</td>
<td>10FR45W</td>
<td>Neuro-Tech</td>
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<tr>
<td>Fri, 11:30-12:20</td>
<td>12FR4W</td>
<td>Ultrasound Biometry (A-Scan)</td>
<td>58</td>
</tr>
<tr>
<td>Fri, 11:30-1:30</td>
<td>13FR45W</td>
<td>Retinoscopy: Plus Cylinder</td>
<td>57</td>
</tr>
<tr>
<td>Fri, 12:40-1:30</td>
<td>12FR5W</td>
<td>Ultrasound Biometry (A-Scan)</td>
<td>58</td>
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1. Administrative/Practice Management

**BASIC**

**Becoming the Best Technician for Your Patients (07SU3)**
Adrienne Campos, COA, Bronx, NY
Sunday, 10:20 am-11:10 am  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

Description: Patient rapport and proper history taking: How are you approaching your patient in terms of questioning? What questions are you asking? Learn to determine what diagnostic tests will be required, depending on what the patient complaint is. Become more observant in the patient’s characteristics by reading body language and mannerisms.

**NEW! Clinical Efficiency Through Lean Six Sigma Methodology (04SA7)**
Janet Hunter, BS, COMT, Brooklyn, NY
Saturday, 3:00 pm-3:50 pm  
Credits: 1 IJCAHPO

Description: Building an efficient, successful ophthalmic technical team is similar to running a factory assembly line. All units need to work together seamlessly in order to produce a superior product. This course is targeted to allied health personnel (front desk and technicians) who need to develop a general awareness of Lean Six Sigma clinical efficiency, concepts and techniques.

**NEW! DISASTER STRIKES! Prepare, Respond then Face the Music (03SA7)**
Diana Hatsis, RN, BSN, COT, Boynton Beach, FL
Saturday, 3:00 pm-3:50 pm  
Credits: 1 A IJCAHPO, CEP: CABRN-1

Description: This course will help ensure your ophthalmic practice staff are ready to respond to almost any emergency. It will describe the organizations available to assist with disaster preparedness and response and discuss how to prepare office equipment and unstable medications for any impending power outage.

**Pump Up Your Techs! (01FR5)**
Nickole Delaney, COA, OSC, Columbus, OH
Friday, 12:40 pm-1:30 pm  
Credits: 1 A IJCAHPO, AOC-NC

Description: In this course, we will review a progressive training program with tips and techniques that will help your technicians maximize their full potential.

**NEW! Setting Up an Office Procedure Room: A Primer (07SA4)**
Roshni Vasaiwala, MD, Maywood, IL  
David Yoo, MD, Hines, IL
Saturday, 11:30 am-12:20 pm  
Credits: 1 A IJCAHPO, AOC-NC

Description: Ophthalmic personnel may be asked to assist in setting up an office space for various procedures. This course aims to help orient the attendee to various procedures that may be encountered.

**Ten Steps to a Phenomenal Patient Experience (02FR7)**
Sharon Alamibodei, COMT, Palm Coast, FL
Friday, 3:00 pm-3:50 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2

Description: Products are consumed, services are EXPERIENCED. Learn strategies for providing your patients with a phenomenal experience. The ten steps to providing that experience will be discussed, including: common causes for delays in clinic flow and how to prevent them, a new way of looking at appointment templating, how to express yourself using positive language rather than negative language, the keys to outstanding telephone skills, the keys to team work, how to manage difficult patients with finesse and tips for dealing with patients with special needs.

**The Ophthalmic Technician’s Critical Role in Medical Quality and Patient Safety (07SU4)**
Thomasine Gorry, MD, Philadelphia, PA
Sunday, 11:30 am-12:20 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

Description: This course will discuss the importance of healthcare quality and patient safety and the role the ophthalmic technician plays in it. We will look at data and discuss the results and their implication for daily practice.

**INTERMEDIATE**

**Leading Your Tech Team (05SU2)**
Savory Turman, COMT, OCS, Fort Collins, CO
Sunday, 9:10 am-10:00 am  
Credits: 1 A IJCAHPO, AOC-NC

Description: Staff management is challenging, and managing technicians presents a unique challenge. We’ll discuss building a training program, staff efficiency, clinical flow, and improving management skills. We will also have a discussion about difficult staff situations and include audience participation for complicated scenarios in technician management and training.
Teaching Skills for Successful Technicians (02SU7)
Sharon Brown, COT, Sandwich, MA
Sunday, 3:00 pm-3:50 pm
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: With increasing overhead and constant reimbursement cuts, it is more important than ever that technicians are well trained. This course is designed to present an overview of how to develop in-house training for technicians to increase their efficiency and knowledge. Discussions will include skill testing to designate various levels of technical staff, as well as ways to improve office flow using doctor-specific, complaint-specific protocols to produce complete work ups.

Technician Clinical Efficiency and Patient Flow Pearls (01SU3)
Kenneth Woodworth Jr., COMT, COE, FASOA, Lexington, KY
Sunday, 10:20 am-11:10 am
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1-2
Description: This course will offer technicians tips and pearls for providing efficient, quality patient care. Common clinical inefficiencies will be discussed, including bottleneck identification and resolution, patient flow, facility design and utilization. Equipment-related issues will be presented. The synergistic relationship between the technician and physician components of patient encounters will be discussed. Coding and certification from an efficiency perspective will be presented.

Eye Evaluation and Triage (07SU5)
John Bussa, MD, Janesville, WI
Sunday, 12:40 pm-1:30 pm
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: This course teaches assessment of telephonically received eye complaints to include urgency of evaluation. It uses symptoms of pain and decreased vision as well as duration, age, tempo and binocularity as assessment tools of acute vision loss, chronic vision loss, red eye, injuries and referrals. Excellent clinical slides supplement a well-organized plan for removal of technician anxiety regarding telephone evaluation of eye concerns.

IJCAHPO Course Descriptions

NEW! Maximizing Clinical Efficiency for Maximum Results (04FR7)
Melissa Dowden, COA, OSC, Greenfield, IN
Friday, 3:00 pm-3:50 pm
Credits: 1 A IJCAHPO, CEP: CABRN-1
Description: This course will provide technicians and other support staff with tips and strategies for minimizing the perceived inconsistencies in efficiency and quality of care. We will address common concerns such as wait times, clinic structure, scheduling and proper upkeep techniques for maximum results.

NEW! Middle Management: Now What? (06FR4)
Natalie Loyacano, COMT, CRA, OSA, Mandeville, LA
Christine McDonald, COA, COE, ROUB, OSC, Fenton, MO
Friday, 11:30 am-12:20 pm
Credits: 1 A IJCAHPO
Description: This course will discuss issues, duties and responsibilities of lead technicians. It will explain how to move from working with your peers to managing your peers. Information, suggestions and ideas will be presented to assist with the delegation of duties and assist with supervisory skills.

Ophthalmic Study Coordinator Roundtable (11FR3)
Diana Hatsis, RN, BSN, COT, Boyton Beach, FL
Cheryl Kiesel, COA, ROUB, CDOS, Fort Myers, FL
Friday, 10:15 am-11:45 am
Credits: 1.5 A IJCAHPO
Prerequisite: Participation in ophthalmic research as a study coordinator.
Description: This course is an interactive discussion with multiple faculty. Course will include panel and group discussions about common misconceptions and concerns of the clinical study coordinator. Share the do's, don'ts, and tips related to the effective management of clinical trials at your site with other study coordinators, directors, and assistants. Improve the overall safety for your subjects and ensure the quality of the data while following study time lines without becoming stressed and overburdened.
Financial interest disclosed

Rock Star Tech: Channeling Your Inner Bon Jovi (05SU1)
Savory Turman, COMT, OCS, Fort Collins, CO
Sunday, 8:00 am-8:50 am
Credits: 1 A IJCAHPO, AOC-NC
Description: Beginning with the chief complaint, we will move through the elements of an examination and go more in depth with gathering patient information and testing techniques. We will also review tips and pearls for working with challenging patient situations and medical conditions. Use your newfound knowledge to enter the “rock star arena” for technicians!

Vision Care in a Changing Healthcare Environment (07SU7)
James Tsai, MD, MBA, FACS, New York, NY
Sunday, 3:00 pm-3:50 pm
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: This course will offer attendees a better understanding of current landscape, potential trends and anticipated future changes in healthcare. The future integrated eye care team will be discussed. Financial interest disclosed

NEW! MIPS: The Nuts and Bolts of Quality Measures (04SA4)
Jessica Peterson, MD, MPH, Washington, DC
Saturday, 11:30 am-12:20 pm
Credits: 1 A IJCAHPO
Description: The Merit-Based Incentive Payment System (MIPS) includes significant changes that will impact your 2020 payments. This advanced-level course will give you an overview of MIPS with the nuts and bolts, what’s new for 2018 reporting and gives an in-depth look at quality measures, calculating quality scores, reporting, and CMS calculation of bonuses and penalties.

NEW! Optimizing Patient Flow for Technicians and Nurses (05FR1)
Andrew Livingston, MS, COA, PMP, Aurora, CO
Friday, 8:00 am-8:50 am
Credits: 1 A IJCAHPO
Description: Patient flow can be a challenge for most; however, by applying a thought out and systematic approach, one can achieve their practice goals. This course will assist the technician and clinical staff with team collaboration to formulate simple solutions to complex problems, such as patient flow, while increasing morale, thinking outside the box and learning how to use simple project management tools and techniques to achieve success.

2. Chart Documentation/Coding/Scribing/Triage

BASIC

Eye Evaluation and Triage (07SU5)
John Bussa, MD, Janesville, WI
Sunday, 12:40 pm-1:30 pm
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: This course teaches assessment of telephonically received eye complaints to include urgency of evaluation. It uses symptoms of pain and decreased vision as well as duration, age, tempo and binocularity as assessment tools of acute vision loss, chronic vision loss, red eye, injuries and referrals. Excellent clinical slides supplement a well-organized plan for removal of technician anxiety regarding telephone evaluation of eye concerns.
**Tips for An Effective Billing Office (03SU3)**

Paul Larson, MBA, MMSc, COMT, COE, Avondale Estates, GA  
Sunday, 10:20 am-11:10 am  
Credits: 1 A IJCAHPO, AOC-NC

Description: This course will discuss the vital role that technicians play in supporting the physician's compliant chart documentation and coding. It will cover the basic rules of documentation to support coding to become an integral part of the billing team.

Financial interest disclosed

**Intermediate Coding Session (13SU67)**

Paul Larson, MBA, MMSc, COMT, COE, Avondale Estates, GA  
Sunday, 1:50 pm-3:50 pm  
Credits: 2 A IJCAHPO, AOC-NC

Description: In this interactive lecture and lab, the basics of CPT coding for in-office services will be discussed. Topics addressed will include the differences between evaluation, management and eye codes, the required elements for comprehensive and intermediate eye codes, chart requirements for diagnostic testing and the requirements for modifiers 24, 25 and 57.

Financial interest disclosed

**Making ICD-10 Your BFF for Payment (01FR2)**

Sue Vicchrilli, COT, OCS, OCSR, Salt Lake City, UT  
Heather Dunn, COA, OCS, Southern Pines, NC  
Friday, 9:10 am-10:00 am  
Credits: 1 A IJCAHPO, AOC-NC

Description: Proper documentation plus the link between CPT and ICD-10 codes creates the award-winning combination for claim accuracy and payment. This course will discuss the latest round of new ICD-10 codes and their nuances and offer valuable tips to assist the physician in this confusing process.

**Medicolegal Issues of the Electronic Health Record (03SU5)**

Michelle Pineda, MBA, San Francisco, CA  
Sunday, 12:40 pm-1:30 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2

Description: This course will discuss electronic healthcare record challenges and provide examples of where documentation can go wrong. Using actual claims and lawsuits, the instructor will present examples of the pitfalls relating to the use of EHRs and provide recommendations on how to better utilize your system to reduce the risk of patient harm.

Financial interest disclosed

**Intermediate Taking**

**History Taking in a Retina Specialty Practice (06FR6)**

Susan Busch, BA, COMT, Sarasota, FL  
Friday, 1:50 pm-2:40 pm  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1

Description: History taking basics provide the foundation for all subspecialty practices. However, there are subtleties that make a difference in a retina practice, such as knowing how to triage phone calls and how soon a patient needs to be seen. Become the expert by learning detailed questions to ask a patient about their symptoms and disease to make your retina doctor more efficient.

**The Importance of the Technician’s Role in the Ophthalmic Exam (07FR56)**

Michael Stewart, MD, Jacksonville, FL  
Friday, 12:40 pm-2:40 pm  
Credits: 2 A IJCAHPO, AOC-NC, OPS 1:2

Description: This course will cover the finer points and pitfalls of the history and examination (pupils, confrontation fields, vision testing, motility, etc.) in preparing the patient for the ophthalmologist.

Financial interest disclosed
IJCAHPO Course Descriptions

4. General Ophthalmic Knowledge

**BASIC**

**Equipment Repair and Maintenance (06FR1)**
Jeffery Hunter, COT, Streetsboro, OH
Friday, 8:00 am-8:50 am  
Credits: 1 A IJCAHPO, AOC-NC, OPS 1:2

Description: This course will provide information on how to care for and maintain your ophthalmic instruments and save your office on costly repairs.

**NEW! Getting to the Root of the Matter: Growing Your Ophthalmology Vocabulary (07FR3)**
Jacqueline Whinery, COA, OCS, OSC, Bakersfield, CA
Friday, 10:20 am-11:10 am  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2

Description: This course will explore the Latin and Greek roots of ophthalmology terms and their relationships with other words from the same root, with the goal of improving the technician or scribe’s working knowledge of ocular anatomy and medical terminology.

**Medical Ethics (07SA3)**
Hon-Vu Duong, MD, Las Vegas, NV
Saturday, 10:20 am-11:10 am  
Credits: 1 A IJCAHPO, AOC-C

Description: This course will discuss the definition of medical ethics, scope of ethics in the medical practice, theories and principles of ethics and the professional duties associated with ethics.

**Second Chance Genetics You Can Really Understand! (07SA2)**
William Lloyd III, MD, FACS, Sacramento, CA
Saturday, 9:10 am-10:00 am  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:2

Description: Many groundbreaking discoveries about the powerful role of genetics in human health and disease came from studying inherited eye disease – and the tradition continues. Unlike other specialties, molecular medicine has already entered mainstream ophthalmology. Did you have problems understanding genetics in school? Here’s a second chance to learn it for good! This informative and clinically-relevant presentation will update your understanding of DNA and how the principles of genetics are revolutionizing eye care.

**INTERMEDIATE**

**Ophthalmic Instrument Care and Sterilization (02SU6)**
Elethia Dean, PhD, MBA, RN, BSN, Columbus, OH
Sunday, 1:50 pm-2:40 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

Description: This course will cover the care and handling of ophthalmic instruments. It will include requirements for cleaning, disinfection, as well as sterilization. Care of autoclaves, logs, peel pouches, wraps, maintenance and other aspects associated with care of ophthalmic instruments will be discussed.

NEW! **Optics Review: The Fun and Necessary Optical Concepts (07FR2)**
Suzanne Hansen, MEd, COMT, OSC, Frisco, TX
Friday, 9:10 am-10:00 am  
Credits: 1 A IJCAHPO, AOC-C

Description: Clinical optics play a major role in the eye clinic and the measurements obtained by allied ophthalmic personnel. This course will review some of the more exciting optics concepts as well as some of the necessary concepts for working effectively in the ophthalmology clinic.

**Repair and Maintenance of Phoropters (06FR2)**
Jeffery Hunter, COT, Streetsboro, OH
Friday, 9:10 am-10:00 am  
Credits: 1 A IJCAHPO, AOC-NC

Description: This course is designed to give instruction of simple repairs and maintenance of phoropters that can help save your office time and money.

5. Comprehensive Clinical Ophthalmology

**BASIC**

**Ocular Infections: Bugs and Drugs—Diagnosis and Management (02SA4)**
Francis Mah, MD, La Jolla, CA
Saturday, 11:30 am-12:20 pm  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1

Description: This course will discuss the different preparations of amniotic membrane, how it is stored, theories on how it works and multiple uses for amniotic membrane on the eyelids and ocular surfaces.

**INTERMEDIATE**

**Amniotic Membrane (06SA3)**
James Townley III, MD, Lackland AFB, TX
Saturday, 10:20 am-11:10 am  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

Description: This course will discuss the different preparations of amniotic membrane, how it is stored, theories on how it works and multiple uses for amniotic membrane on the eyelids and ocular surfaces.

**Color Vision Testing (07FR4)**
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON Canada
Friday, 11:30 pm-12:20 pm  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1

Description: This course will cover color vision and color vision defects before moving on to the different ways to test color vision. A review of pseudoisochromatic plates, the D-15 and the 100 Hue will be covered. A case study of a family with color vision defects will be presented. The different testing methods will be shown in an attempt to determine the type of color vision defect present.

**Diet, Nutrition, and the Eye (07SU2)**
James McDonnell, MD, Maywood, IL
Sunday, 9:10 am-10:00 am  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:1

Description: Ever wonder how your diet REALLY affects your health, eye, brain, and overall vision? Specific dietary and nutritional interventions will be presented that can have dramatic effects on vision and general health.
### IJCAHPO Course Descriptions

#### NEW! The Evaluation of the Patient with Double Vision (03FR4)
Sarah Whitecross, MMedSci, OC(C), CO  
Friday, 11:30 am-12:20 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

**Description:** This course will assist technicians with how to work up the patient who presents with diplopia. Techniques used to determine the difference between blurred and double vision, and between monocular and binocular diplopia will be presented.

#### Top 10 Reasons Not to Dilate a Patient (05FR2)
Sally Ellen Scanlon, COT, OSA, Fort Myers, FL  
Friday, 9:10 am-10:00 am  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

**Description:** Often a patient’s eyes are dilated as part of a work up. Knowing when and when not to dilate is important because certain signs or symptoms could be overlooked, inconvenience could be put on the patient to come back, or worse, a serious problem could be missed. Using case-based history examples, this course will discuss the importance of a thorough pupil assessment before dilation.

#### You Saw What? A Curious Compendium of Ocular Oddities (05FR5)
William Ehlers, MD, Avon, CT  
Friday, 12:40 pm-1:30 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

**Description:** A collection of cases that demonstrate some rare and fascinating ocular maladies. It will feature a mix of history, case presentations and epidemiology that covers unusual diagnoses from around the world, running the gamut from Acanthameoba Kertatitis through Zelwegger Syndrome. Attendees will be invited to share unusual cases they have seen.

#### NEW! The Patient with Strabismus: Double Trouble? (01SU5)
Douglas Fredrick, MD, Santa Clara, CA  
Sunday, 12:40 pm-1:30 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

**Description:** Patients presenting to the eye clinic with strabismus require a systematic approach when being evaluated by the technician and physician. Participants of the course will learn vital questions to ask when obtaining the history and diagnostic testing modalities specific for children and adults with strabismus and or diplopia. Careful examination will often identify underlying medical conditions previously unrecognized, facilitating prompt medical attention and alleviation of disease.

### 6. General Surgery

#### BASIC

**Basic Surgical Assisting (07SA6)**  
Diana Hatsis, RN, BSN, COT, Boynton Beach, FL  
Saturday, 1:50 pm-2:40 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

**Description:** This course will review causes of red eye, including but not limited to infections and inflammation. The pertinent aspects of the patient work up for the ophthalmic technician will be covered. The course will discuss the differential diagnosis for the red eye and various treatments depending on the cause.

#### INTERMEDIATE

**NEW! Anesthesia in the ASC (08FR7)**  
Caren Cajares, DNP, CRNA, Virginia Beach, VA  
Friday, 3:00 pm-3:50 pm  
Credits: 1 A IJCAHPO

**Description:** Course will focus on the entire spectrum of anesthetic management of eye surgery candidates in the ASC. Participants will understand the patient selection process, choice of anesthetic type, and safety in anesthesia as it pertains to the ambulatory eye surgery patient. Peri-operative management of the ambulatory patient will be discussed.

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**NEW! The Myopia Epidemic: Public Health Implications and Interventions (06SU5)**  
Bobek Modjtabahi, MD, Baldwin Park, CA  
Sunday, 12:40 pm-1:30 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

**Description:** Myopia is a growing epidemic, reaching near ubiquitous levels in certain populations. This course will examine causes of myopia as well as associated causes of visual impairment including retinal detachments, choroidal neovascular membranes, and myopic degeneration which can lead to blindness. Possible interventions to decrease the progression and severity will be examined including increasing outdoor time, pharmacologic interventions, and orthokeratology (reshaping the cornea with contact lenses).

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**NEW! I’m Tearing: How Can This be Dry Eye? (03SA6)**  
Mina Massaro-Giordano, MD, Philadelphia, PA  
Saturday, 1:50 pm-2:40 pm  
Credits: 1 A IJCAHPO

**Description:** Dry eye can cause a myriad of symptoms that can have a profound impact on an individual’s ability to perform daily tasks. This course will discuss the typical symptoms and causes of dry eye including autoimmune conditions, blepharitis, demodex, and meibomian gland dysfunction. Illustration of ways to exclude other surface issues (viral, allergic, etc.) will precede novel diagnostic techniques and treatment options.
7. Cornea

**NEW! Compliance in the Ophthalmic ASC in 2018 (08SU5)**
Elethia Dean, PhD, MBA, RN, BSN, Columbus, OH
Sunday, 12:40 pm-1:30 pm \(\text{Credits: 1 A IJCAHPO, CEP: CABRN-1}\)
**Description:** This course will cover content from surveys focused on how to achieve compliance in 2018, including – but not limited to – instrument sterilization in the ophthalmic ASC, medication administration, infection control and more.

**NEW! The Evolution of the Cornea Practice (01SU1)**
Bennie Jeng, MD, Baltimore, MD
Sunday, 8:00 am-8:50 am \(\text{Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1}\)
**Description:** The course will review the significant advancements in medical and surgical cornea over the last 25 years. We will highlight important changes in practice and management of patients with various conditions.

**Corneal Procedures for Today and Tomorrow (02FR4)**
Derek DelMonte, MD, Aurora, CO
Friday, 11:30 am-12:20 pm \(\text{Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1}\)
**Description:** The course will update attendees on the latest corneal surgical procedures being performed today. We will discuss new transplant techniques including DSEK, DMEK and lamellar grafting. We will also discuss new therapies for corneal ectasia including corneal ring segments and collagen cross-linking. Indications for these new procedures, decision making about who are good candidates and the timing of intervention will be touched upon.

**Depth of Focus and Multifocality (08SU1)**
Pankaj Gupta, MD, MS, Cleveland, OH
Sunday, 8:00 am-8:50 am \(\text{Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1}\)
**Description:** Attendees will learn the definitions associated with depth of focus, aberrations and multifocality. With this framework, attendees will be able to use these principles to understand their clinical applications including pinhole testing and how it affects patients in their day-to-day life. Finally, these principles will be expanded to understand their implications in intraocular lens design and selection for cataract surgery, providing improved patient counseling.

**NEW! The Technician’s Role in Eye Banking (08FR5)**
Gordon Carter, COMT, Calgary, AB, Canada
Friday, 12:40 pm-1:30 pm \(\text{Credits: 1 A IJCAHPO}\)
**Description:** This course will examine the technician’s role in all aspects of ocular recovery for transplant. Medical records review, blood draw, enucleation, and excision of corneas will be covered.

**8. Glaucoma**

**NEW! Empowering Glaucoma Patients to Take Care of Themselves (13SU45)**
Paula Newman-Casey, MD, Ann Arbor, MI
Kelly Muir, MD, MHS, Durham, NC
Gary Novack, PhD, San Rafael, CA
Alan Robin, MD, Baltimore, MD
Julia Rosdahl, MD, PhD, Durham, NC
Sunday, 11:30 am-1:30 pm \(\text{Credits: 2 A IJCAHPO, CEP: CABRN-1}\)
**Description:** Many patients using chronic ocular medication do not take their medication as prescribed—either at incorrect times, more or less often, or fail to correctly use eye drops. Much of this lack of treatment is invisible to the ophthalmologist. We will discuss the magnitude and nature of this problem, and some evidence-based behavioral strategies to educate and problem solve in a way that enhances patients’ motivation to take control of their health. The course will provide case based examples so that technicians can practice new behavioral techniques such as reflective listening, summarizing and supporting change talk.

**Current Concepts in Glaucoma: Management of the Glaucoma Patient (06SA6)**
Neil Choplin, MD, San Diego, CA
Saturday, 1:50 pm-2:40 pm \(\text{Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1}\)
**Description:** Current thinking about open angle glaucoma, based upon landmark studies that have changed our basic beliefs, will be discussed. Basic concepts about management of glaucoma patients derived from those studies will be included, including medical, laser and surgical approaches.

**NEW! MIGS-Mania: We Need a Better Glaucoma Surgery! Are We There Yet? (05SA2)**
H. George Tanaka, MD, San Francisco, CA
Saturday, 9:10 am-10:00 am \(\text{Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2}\)
**Description:** This course will review the various new glaucoma procedures and devices approved for use and in development. Criteria for qualifying as a “minimally invasive glaucoma surgery,” mechanisms of action, surgical videos and clinical results will be presented. Advantages and disadvantages of the various MIGS relative to each other and traditional glaucoma surgery will be highlighted.
IJCAHPO Course Descriptions

Updates on Minimally Invasive Glaucoma Surgery (01FR3)
Michael Patterson, DO, Crossville, TN
Friday, 10:20 am-11:10 am  Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: This course will offer the new advances and treatments in glaucoma. Highlights will include preoperative patient selection, intraoperative surgical techniques and postoperative data and results. Videos will be used to illustrate the different surgical techniques.

ADVANCED

To Treat or Not to Treat: Evaluation of the Glaucoma Suspect (03FR1)
Eydie Miller-Ellis, MD, Philadelphia, PA
Friday, 8:00 am-8:50 am  Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: This case-based course will review the assessment of patients with clinical findings suspicious for glaucoma. Diagnostic tests and glaucoma risk factors will be discussed.

9. Oculoplastics

INTERMEDIATE

Eyelid and Facial Lesions: The Good, The Bad and Modern Treatments (06SU1)
Donald Hudak, MD, West Chester, OH
Paul Brannan, MD, Sarasota, FL
Sunday, 8:00 am-8:50 am  Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: We will discuss various eyelid and facial lesions that can be seen in a general ophthalmology and oculofacial surgery practice. Symptoms and signs will be presented, as well as various diagnostic and treatment options. The attendee will be able to recognize benign and malignant features of various lesions.

Ocular Trauma and Management (01SU6)
Femida Kherani, MD, FRCS, Dipl. ABO, Burnaby, BC, Canada
Amin Kherani, MD, Calgary, AB, Canada
Sunday, 1:50 pm-2:40 pm  Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: This course will describe the classifications of eye trauma and an overview of treatment options available to manage different types of ocular trauma.

NEW! Oculoplastic Surgical Assisting (06SA2)
John Nguyen, MD, Morgantown, WV
Saturday, 9:10 am-10:00 am  Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: This course will cover aseptic technique, gowning and gloving. Techniques for maintaining a sterile field, oculoplastic surgical instruments, and surgical procedures will be discussed and demonstrated. It will also review patient preparation, surgical timeout, and postoperative instructions.

NEW! Pediatric Oculoplastic Surgery (02SU3)
Richard Allen, MD, PhD, FACS, Houston, TX
Sunday, 10:20 am-11:10 am  Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: Pediatric oculoplastic surgery encompasses eyelid, lacrimal and orbital disease in children. This lecture covers common problems including congenital ptosis, nasolacrimal duct obstruction, and capillary hemangiomas, as well as uncommon problems including genetic syndromes and malignant tumors.

10. Retina

BASIC

DARN IT! What to Consider Before Dilating the Patient (07SU1)
Steven Bennett, MD, Edina, MN
Sunday, 8:00 am-8:50 am  Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: Dilation has an impact on the ability to diagnose certain conditions, such as a relative afferent pupillary defect, ruberosis and third nerve palsy. This lecture will use extensive photos and videos to explain the conditions that are important to understand and identify before dilating the patient.

INTERMEDIATE

AMD Patient Selection and Management with the Implantable Miniature Telescope (04SU5)
Jonathan Rubenstein, MD, Chicago, IL
Sunday, 12:40 pm-1:30 pm  Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: Learn the key aspects and updates of AMD (age-related macular degeneration) and new technologies such as the Implantable Miniature Telescope Lens and how it works. This course will outline patient assessment for telescope implant candidacy, how to maximize your system (such as EMR or billing) to engage with patient candidates, and what your role is in patient acceptance and follow-up. Financial interest disclosed

The Uveitis Patient: Do Not Freak Out! (01SA5)
Nickole Delaney, COA, OSC, Columbus, OH
Saturday, 12:40 pm-1:30 pm  Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: This course will address the complete work up of the uveitis patient. Starting with history taking specific to the uveitis patient and diagnostic testing that would be helpful to your ophthalmologist treating patients with uveitis.

NEW! Updated Guidelines for Intravitreal Injections (08SU2)
Ashvini Reddy, MD
Sunday, 9:10 am - 10:00 am  Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: Best practices for performing intravitreal injections based on current literature will be discussed in this course. Evidence based methods of preparation of the ocular surface, the prevention of infection, as well as the administration of longer acting implants will also be discussed.
Using Artificial Intelligence to Improve Retina Care: The Future is Now (04FR6)
Stephen Odaibo, MD, MS, Dubuque, IA
Friday, 1:50 pm-2:40 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1  
Description: This lecture will review how artificial intelligence and machine learning are being used to improve retina care.
Financial interest disclosed

Diabetic Retinopathy: Learn to be a Certified Ophthalmic Imaging Assistant (10SU67)
Donald Fong, MD, Baldwin Park, CA  
Lupe Cisneros, COA, South Gate, CA  
Bobek Modjtahedi, MD, Baldwin Park, CA  
Jeremy Shaw, MD, Baldwin Park, CA  
Andrea Wong, MHA, Baldwin Park, CA  
Sunday, 1:50 pm-3:50 pm  
Credits: 2 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:1  
Description: Techniques for identifying and documenting lesions will be discussed as part of diabetic retinopathy screening. This combined lecture and workshop teaches the skills necessary to recognize and gauge diabetic eye changes. An algorithmic surveillance system will be presented in the course.

NEW! Eylea, Lucentis and Avastin: History of the Trials That Began the Anti-VEGF Era (01SA4)
Abdhish Bhavsar, MD, Minneapolis, MN  
Saturday, 11:30 am-12:20 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1  
Description: This course will discuss the history of the clinical trials that started the Anti-VEGF era. It will review the results of clinical trials, describe the latest treatments for AMD, and offer suggestions on methods of managing patient expectations and physician expectations with these new treatments. Finally, it will explore what the future may hold for AMD treatment.

NEW! Gene Therapy (05SA3)
Abdhish Bhavsar, MD, Minneapolis, MN  
Saturday, 10:20 am-11:10 am  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1  
Description: The eye is an ideal target for gene therapy due to its accessibility and small size. Gene therapy can be used to target age-related macular degeneration, glaucoma, myopic macular degeneration, retinitis pigmentosa, Stargardt disease, and optic nerve disease such as optic atrophy and optic neuritis. This course will discuss the science behind gene therapy and give examples of its application in ophthalmology.

Macular Degeneration: 2018 and Beyond (01SA2)
Dhar Dhanda, MD, FRCS, New Westminster, BC, Canada  
Saturday, 9:10 am-10:00 am  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:2  
Description: This course will highlight the new advances and treatments for macular degeneration, to include current and future treatments such as stem cells, implants, eye drops and injections.

Retinoblastoma (08SU4)
Brenda Gallie, MD, Toronto, ON, Canada  
Sunday, 11:30 am-12:20 am  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:2  
Description: Retinoblastoma is rare, but the most common form of cancer affecting children’s eyes. Detection of the predisposing mutation before birth identifies offspring at risk of hereditary retinoblastoma and optical coherence tomography finds invisible tumors to laser before they damage vision. This course will discuss the etiology of retinoblastoma including signs, symptoms, diagnostics tests, novel internet strategies, and current and new treatment options.

11. Refractive and Cataract Surgery

INTERMEDIATE

NEW! Cataract Surgery (04SA5)
Christopher Pollock, MD, MSc, FRCS, Vancouver, BC, Canada  
Heather O’Donnell, MD, FRCS, Vancouver, BC, Canada  
Saturday, 12:40 pm-1:30 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1  
Description: This course will discuss informed consent for cataract surgery, steps of cataract surgery, and common and serious complications. Surgical videos will be shown.

Drugged Out: Medications Used in Cataract Surgery (06SA4)
Vasudha Panday, MD, San Antonio, TX  
Saturday, 11:30 am-12:20 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1  
Description: This course will discuss medications used in cataract surgery. Medications in all aspects of surgery, from pre to postoperative, as well as anesthetics, will be reviewed.

Evaluating Patients for Cataract Surgery (06SU2)
Darby Miller, MD, MPH, Jacksonville, FL  
Sunday, 9:10 am-10:00 am  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1  
Description: This course will discuss the signs and symptoms of cataracts, when surgery is indicated, certain limitations to having standard cataract surgery and the risks and benefits of cataract surgery. It will also discuss the latest advancements in cataract surgery including, but not limited to: laser assisted cataract surgery, intraoperative aberrometry, and intraocular lenses.

Presbyopia: Finding the Holy Grail (04SU1)
John LiVecchi, MD, FACS, FSEE, Kissimmee, FL  
Sunday, 8:00 am-8:50 am  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1  
Description: This course will advance the audience’s knowledge on the various surgical modalities for the correction of presbyopia. It will also describe the theories of accommodation.
**IJCAHPO Course Descriptions**

**ADVANCED**

**Cataract Surgery: Managing Complicated Cases (01SU7)**
Amin Kherani, MD, Calgary, AB, Canada
Sunday, 3:00 pm-3:50 pm  
**Description:** This course will cover complications that can occur during routine cataract surgery. Both planned and unplanned complications will be discussed including the preoperative, intraoperative and postoperative means for handling such complications. The focus of the discussion will be on retained or dropped lens material and the use of secondary IOLs.

**Femtosecond Laser for Complicated Cases and Astigmatism (06SU4)**
Michael Taravella, MD, Aurora, CO
Sunday, 11:30 am-12:20 pm  
**Description:** This 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 with early results will be presented.

**NEW! IOL Calculations (05SA4)**
Jack Holladay, MD, MSEE, FACS, Bellaire, TX
Saturday, 11:30 am-12:20 pm  
**Description:** This course will discuss methods to select the proper intraocular lens to ensure patient satisfaction after cataract surgery. Accuracy requires minimizing measurement errors, using the correct IOL formulas, and measuring patients postoperatively. Unusual cases such as post refractive, silicone in the vitreous and retinal detachment will also be discussed.

**NEW! Novel Surgical Guidance System and Laser-Assisted Technologies (06SA5)**
Jonathan Solomon, MD, Bowie, MD
Saturday, 12:40 pm-1:30 pm  
**Description:** This course will review the FDA-approved technology available to assist with cataract surgery that enables greater precision when combined with augmented reality, 3-D imaging, and intraoperative aberrometry and computer registration.

**NEW! ReLEx SMILE (02FR1)**
Edward Manche, MD, Palo Alto, CA
Friday, 8:00 am-8:50 am  
**Description:** SMall Incision Lenticular Extraction is a minimally invasive laser vision correction procedure. This course will discuss all aspects of SMILE including indications, contraindications, outcomes, complications, and management.

**Working With the Refractive Surgery Patient (03SA4)**
Linda Tsai, MD, Saint Louis, MO
Saturday, 11:30 am-12:20 pm  
**Description:** Refractive surgery has become more complex and the expectations of the patients have increased over the years. This lecture is designed to give insight for what your surgeon needs during the evaluation and follow-up of these patients.

**INTERMEDIATE**

**NEW! Functional Visual Disorders (05FR7)**
Rachid Aouchiche, MD, FACS, Fort Myers, FL
Friday, 3:00 pm-3:50 pm  
**Description:** This course will review the various types of functional visual disorders, with special emphasis on testing methods, recognition of organic disease and management of patients with functional visual disorders.

**Neuro-Ophthalmic Problems Not to Miss (03SU6)**
Steven Newman, MD, Charlottesville, VA
Sunday, 1:50 pm-2:40 pm  
**Description:** Delay in diagnosis is common in patients referred for neuro-ophthalmic evaluation. This may be expensive in terms of time and additional studies. More importantly, however, there are some diseases that require early diagnosis and rapid treatment to prevent severe untoward complications. We will briefly emphasize the common neuro-ophthalmic problems that are critical to diagnosis, as well as briefly outline some of the commonly missed and delayed diagnoses seen through a neuro-ophthalmology office.

**Neuro-Ophthalmology Testing (08FR3)**
Aljoesa Walker, MD, Charleston, SC
Friday, 10:20 am-11:10 am  
**Description:** The roles of MRI, CT, VEP, OCT, visual fields and color plates in neuro-ophthalmology will be discussed.

**Temporal Arteritis (05SU6)**
Jade Schiffman, MD, FAAO, FAAN, Houston, TX
Sunday, 1:50 pm-2:40 pm  
**Description:** Temporal arteritis is an inflammatory disease of the blood vessels. Symptoms may include headache, pain over the temples, flu-like symptoms, and double vision. This course will explain the diagnosis of temporal arteritis.

**Which is the Neuro-Ophthalmic Emergency? (05SU4)**
Jane Portnoy, MD, Philadelphia, PA
Sunday, 11:30 am-12:20 pm  
**Description:** This presentation provides four topics with two contrasting cases to highlight which case is emergent and which case is not. For example: two headache patients, migraine vs. giant cell arteritis, which is the emergency?
NEW! Neuroimaging in Ophthalmology (08FR1)
Karl Golnik, MD, MEd, Blue Ash, OH
Friday, 8:00 am-8:50 am
Credits: 1 A IJCAHPO,
AOC-C, CEP:CABRN-1, OPS 1:2
Description: This course will cover common neuro-ophthalmology clinical problems featuring the relevant neuroimaging including CT, CTA, MRI, MRA, and angiography. A case based approach will be utilized to highlight these different imaging modalities and to indicate which imaging needs to be done and when. Tumors, inflammatory conditions and vascular abnormalities will be covered.

ADVANCED

Functional Vision Loss: The Cases that Haunt Us (05SU3)
Jane Portnoy, MD, Philadelphia, PA
Sunday, 10:20 am-11:10 am
Credits: 1 A IJCAHPO,
AOC-C, CEP:CABRN-1
Description: Functional visual loss can be difficult to detect. The technician can play a role in alerting the ophthalmologist to a suspicion of functional visual loss. The different types will be defined and illustrated with case histories. Testing techniques will be discussed.

Higher Visual Disorders (03SU2)
Michael Vaphiades, DO, Birmingham, AL
Sunday, 9:10 am-10:00 am
Credits: 1 A IJCAHPO,
AOC-C, CEP:CABRN-1
Description: This course reviews some interesting visual disorders that manifest as a result of stroke and dementia. Examples include: pure alexia, prosopagnosia, constructional apraxia, positive visual phenomena of central etiology, Charles Bonnet syndrome, and Bélints Syndrome.

Masquerade Syndromes in Neuro-Ophthalmology (08SU7)
Steven Newman, MD, Charlottesville, VA
Sunday, 3:00 pm-3:50 pm
Credits: 1 A IJCAHPO,
AOC-C, CEP:CABRN-1
Description: Systemic disease may often cause eye findings that can be detected with a neuro-ophthalmic evaluation. It is common to assume that diplopia is due to cranial nerve palsies, as they are the most common cause of binocular diplopia, but there are other causes of parietic abnormalities and restrictive problems that are often missed if there is no obvious evidence of orbital disease.

Perilous Pupils (05SA5)
Hilary Beaver, MD, Houston, TX
Andrew Lee, MD, Houston, TX
Saturday, 12:40 pm-1:30 pm
Credits: 1 A IJCAHPO,
AOC-C, CEP:CABRN-1, OPS 1:1
Prerequisite: Basic training in performing the pupil exam.
Description: This course will review the pupil evaluation, with emphasis on the diagnostic algorithm of anisocoria, and the common dangerous causes of both the APD and anisocoria.

Pupil Cases: When to Worry, When to Watch (05SA6)
Andrew Lee, MD, Houston, TX
Hilary Beaver, MD, Houston, TX
Saturday, 1:50 pm-2:40 pm
Credits: 1 A IJCAHPO,
AOC-C, CEP:CABRN-1
Description: Presentation of pupil cases, including causes of anisocoria, description of life threatening pupil problems and definitions of benign etiologies.

NEW! Wacky Eye Movements: Dangerous, Debilitating or Dubious? (06FR5)
Karl Golnik, MD, MEd, Blue Ash, OH
Friday, 12:40 pm-1:30 pm
Credits: 1 A IJCAHPO,
AOC-C, CEP:CABRN-1
Description: This course will cover a variety of eye movement abnormalities ranging from life threatening to party tricks. Conditions such as opsinclonus, myasthenia, ocular neuromyotonia and spasm of the near reflex will be covered and illustrated with numerous videos.

13. Pediatrics

NEW! Introductory Strabismus (07SA7)
Lisa Vanover, COMT, OSC, Grove City, OH
Saturday, 3:00 pm-3:50 pm
Credits: 1 A IJCAHPO,
AOC-C, CEP:CABRN-1
Description: This course will provide a basic introduction of strabismus types, muscles involved, and testing methods. Signs and symptoms of strabismus will be briefly discussed and pictures of strabismus will be presented.

Finding Your Inner Child: Tips for the Pediatric Exam (01SU4)
Mary Cycone, COT, OSC, Oxford, MI
Susan Perzyk, COA, Romulus, MI
Emily Remick, COT, Farmington Hills, MI
Jennifer Wilson, COMT, Garden City, MI
Sunday, 11:30 am-12:20 pm
Credits: 1 A IJCAHPO,
AOC-C, CEP:CABRN-1
Description: This fun course will focus on identifying abnormal vision and motility in children, with tips and techniques to help the child feel at ease during the exam. Attendees will learn how to watch for unusual head postures and eye movements, and how to adapt techniques to achieve the most accurate visual assessment in preschool and school-age children.

Pediatric Ophthalmology Pearls: The Tricks of the Trade (01SA3)
Patricia Davis, MD, Lisle, IL
Saturday, 10:20 am-11:10 am
Credits: 1 A IJCAHPO,
AOC-C, CEP:CABRN-1
Description: How do you approach a roaring lion, a snorting bull or a braying donkey? With grace and aplomb. This course will help familiarize the uninitiated with pediatric exams. We will venture into some of the diagnoses and findings frequently seen in pediatric exams for those familiar with pediatric ophthalmology. There will be a fair amount of neuro-ophthalmology presented as well.
Red Eye in Pediatrics: Nuisance or Life Threatening? (01SA7)
Steven Lichtenstein, MD, FAAP, FACS, FAAO, Peoria, IL
Saturday, 3:00 pm-3:50 pm  Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: This course will present cases of red eye in pediatric patients. Discussions include when a “pink eye” can be much more than just a nuisance and routine, and actually can be life threatening. Various eye conditions and treatments will be reviewed.
Financial interest disclosed

ADVANCED

New Thoughts on Amblyopia Treatment: The PEDIG Studies (03FR3)
William Astle, MD, FRCSC, Dipl. ABO, Calgary, AB, Canada
Friday, 10:20 am-11:10 am  Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: This course will review the PEDIG studies, examining the effects of patching vs. atropine penalization, and the powerful effect of glasses alone on various forms of amblyopia. New treatments for amblyopia including laser refractive surgery and other refractive treatments will also be discussed.

14. Ocular/Systemic Diseases

INTERMEDIATE

NEW! AIDS and the Ophthalmic Practice (07FR7)
Charles Slonim, MD, FACS, Tampa, FL
Friday, 3:00 pm-3:50 pm  Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1
Description: The incidence of the acquired immunodeficiency syndrome (AIDS) has reached epidemic proportions in both non-industrialized and industrialized nations. Although the underlying cause of AIDS is known to be the human immunodeficiency virus (HIV), no cure has been found to date. Some eye-care practitioners may believe this disease has no bearing on their practices, but most have and will continue to have contact with HIV-infected patients.

Ocular Toxicity from Systemic Medications (03SU7)
Komal Desai, MD, Leawood, KS
Sunday, 3:00 pm-3:50 pm  Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:2
Description: This course will discuss findings associated with ophthalmic damage and side effects from common systemic medications.

ADVANCED

Ophthalmic Pathology & Oncology (08SA2)
Hon-Vu Duong, MD, Las Vegas, NV
Saturday, 9:10 am-10:00 am  Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:1
Prerequisite: Basic knowledge of ophthalmic pathology.
Description: This course will provide a quick comprehensive review of the basic concepts of pathology. It will concentrate on the common eye diseases and the histopathological findings.

The Effect of Non-Ocular Cancers in the Eye and Ocular Adnexa (04SU2)
Richard Allen, MD, PhD, FACS, Houston, TX
Sunday, 9:10 am-10:00 am  Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: Although attention by ophthalmologists with regards to cancers is placed on primary cancers of the eye and ocular adnexa, the most common ocular issues with regards to cancers have to do with the secondary effects of non-ocular cancers and the therapies used to treat them.

What Is This? Ocular Findings in Systemic Disease (03SA5)
Michael Stewart, MD, Jacksonville, FL
Saturday, 12:40 pm-1:30 pm  Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:1
Description: This course discusses the relationship between the eye and important systemic diseases. Eyes have often been called the “window” to the rest of the body, a tribute to the many systemic diseases whose ocular findings can lead to accurate diagnoses. This course discusses the ocular findings and their frequent association with systemic diseases.
Financial interest disclosed

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## IJCAHPO Course Descriptions

### 15. Diagnostic Testing/Imaging

### BASIC

#### Introduction to Contact B-Scan Ultrasonography (EyeCareCE)

Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada  
**Online Course**  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1  
**Prerequisite:** This introductory course is being offered in advance of the conference at www.EyeCareCE.org. It will NOT be offered on-site. To access this course, visit www.EyeCareCE.org. Click on the “My Courses” tab, and sign in to view the course. Upon completion of the course you will earn 1 A IJCAHPO Credit.  
**Description:** This course will introduce the participants to the field of B-scan ultrasound. The course will start with the basics of how and why ultrasound is used in ophthalmology, then shift to the specific techniques used during a B-scan exam. These techniques will include applying the probe to the eye, probe positions and examination techniques. Although this course is a required prerequisite to a diagnostic B-scan hands-on session, it will also be helpful to participants who are unable to attend the hands-on session.

#### Introduction to UBM (EyeCareCE)

Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada  
**Online Course**  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1  
**Prerequisite:** This introductory course is being offered in advance of the conference at www.EyeCareCE.org. It will NOT be offered on-site. To access this course, visit www.EyeCareCE.org. Click on the “My Courses” tab, and sign in to view the course. Upon completion of the course you will earn 1 A IJCAHPO Credit.  
**Description:** This course will cover the basics of an ultrasound biomicroscopy exam. It will briefly cover instrumentation before moving into probe positions and scanning techniques. Examples of normal anatomy and common ocular pathology imaged with UBM will round out the course.

#### Introduction to Ultrasound Biometry (EyeCareCE)

Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada  
**Online Course**  
Credits: 1 A IJCAHPO, AOC-NC  
**Prerequisite:** This introductory course is being offered in advance of the conference at www.EyeCareCE.org. It will NOT be offered on-site. To access this course, visit www.EyeCareCE.org. Click on the “My Courses” tab, and sign in to view the course. Upon completion of the course you will earn 1 A IJCAHPO Credit.  
**Description:** This course will review ultrasound A-scan biometry used for IOL calculations. Contact biometry will be discussed, but the emphasis will be on the immersion biomicroscopy exam. Examination techniques will be presented and illustrated. Although this course is a required prerequisite to an A-Scan hands-on session, it will also be helpful to participants who are unable to attend the hands-on session.

### INTERMEDIATE

#### NEW! Angiography (06SU6)

Mandi Conway, MD, FACS, Sun City West, AZ  
**Sunday, 1:50 pm-2:40 pm**  
Credits: 1 A IJCAHPO  
**Description:** This course will cover traditional fluorescein angiography including definitions and examples of hyper- and hypo-fluorescence. Indications, contraindications, and potential side effects of the dye injection will be covered. OCT Angiography is also included. Examples of retinal pathology imaged with fluorescein and OCT angiography will be presented.

#### NEW! Anterior Segment Imaging with Retinal Cameras (04FR2)

Timothy Bennett, CRA, FOPS, OCT-C, Hershey, PA  
**Friday, 9:10 am-10:00 am**  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1  
**Description:** Although designed specifically to image the ocular fundus, retinal imaging devices are also capable of documenting the anterior segment of the eye. This course will review the types of imaging that can be obtained with retinal cameras when a clinic isn’t equipped with dedicated anterior segment imaging devices such as a photo slit lamp. Imaging modalities including; red reflex imaging, anterior segment angiography, corneal staining, autofluorescence, monochromatic photography, gonioscopy, IR reflectance, IR microbiography and IR pupillography will be covered.

#### Better One or Two? (01FR7)

Barbara Harris, PA, MBA, COT, OSC, Hudson, NC  
**Friday, 3:00 pm-3:50 pm**  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1  
**Description:** This course will discuss basic principles of optics and their application in refinement. Proper use of the Jackson cross cylinder will be demonstrated with emphasis on maintaining spherical equivalent when performing refinement.

#### NEW! B-Scan Probe Positioning Protocol for a Comprehensive Screening Ultrasound Exam (04SU6)

Gus Kohn, COT, ROUB, CRA, Austin, TX  
**Sunday, 1:50 pm-2:40 pm**  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1  
**Description:** This lecture will outline the basic screening protocol for a comprehensive B-scan ultrasound examination. Longitudinal, transverse and oblique techniques will be discussed in relation to ocular anatomy and spatial understanding of all the structures of the human eye.

#### NEW! Comparing Diagnostic Function and Structure Tests and Electrophysiology (04SU3)

Joanne Yawn, COT, San Antonio, TX  
**Sunday, 10:20 am-11:10 am**  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1  
**Description:** This course will compare standard tests of visual function and structure to visual electrophysiology test results. Asymptomatic diseases like glaucoma, diabetic retinopathy and AMD will be discussed. Based on test results, we will review impact on care. Treatment changes based on visual dysfunction will include drug and surgical intervention, changes to follow-up frequency, referrals for co-management, and objective evaluation of disease progression and efficacy.

#### Electrophysiology for Technicians: What is ERG, VEP and EOG? (08SA3)

Xiaosong Zhu, COMT, Wynnewood, PA  
**Saturday, 10:20 am-11:10 am**  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:2  
**Description:** This course will review the layers of retina and visual pathway, including an overview of the basic ERG and VER procedures. We will discuss why we need these tests and how to perform testing. Practical applications of electrophysiology will be reviewed through several case studies.
"Using Local Eye Site to hire an Ophthalmic Technician worked out beautifully! We received a number of qualified applicants and were able to hire the perfect candidate for our practice."

Lee Klein, MD
Plantation Eye Associates
Plantation, FL
NEW! For the Love of Lensometry (06FR3)
Faith Race, COT, OSC, Newton, NC
Friday, 10:20 am-11:10 am Credits: 1 A IJCAHPO, AOC-NC
Description: This course will discuss and demonstrate the use of a manual lensometer. Topics include: focusing the eye piece, proper spectacle placement, establishing an optical center, neutralizing in plus and minus cylinder, reading multifocal lenses, and measuring prism.

NEW! OCT: Anatomy of a Scan (04FR3)
Timothy Bennett, CRA, FOPS, OCT-C, Hershey, PA
Friday, 10:20 am-11:10 am Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1
Description: Good communication between imagers and ophthalmologists is helpful in obtaining the best diagnostic images. This course will provide a systematic approach to understanding what we see in retinal OCT images. Armed with this knowledge, we can adapt our scanning strategy when necessary, and communicate important or unexpected findings to the ordering physician. Discussion will include: descriptive features such as contour, thickness, reflectivity and shadowing. Identification of retinal landmarks, common pathologic features and analysis artifacts will be presented.

OCT Angiography with Cirrus HD-OCT (01SA6)
Connie McKeehen, CCODA, Vancouver, WA
Saturday, 1:50 pm-2:40 pm Credits: 1 A IJCAHPO
Description: This course will discuss the new AngioPlex technology and examine applications of Cirrus OCT AngioPlex software. It will review how to perform AngioPlex scans and explain analysis options available with this new technology.
Financial interest disclosed

NEW! One Camera: 9 Imaging Modalities (01FR6)
James Gilman, CRA, FOPS, South Jordan, UT
Friday, 1:50 pm-2:40 pm Credits: 1 A IJCAHPO, AOC-NC, OPS 1:1
Description: The Heidelberg Spectralis is capable of imaging in different modes with variable angles. This lecture will describe each mode, and detail different disease processes that benefit from those modes.

NEW! Slit lamp Biomicroscopy: Do you really understand how your slit lamp works? (03FR7)
Mark Maio, FOPS, Alpharetta, GA
Friday, 3:00 pm-3:50 pm Credits: 1 A IJCAHPO, AOC-NC, OPS 1:1
Description: The slit lamp biomicroscope is ubiquitous in every ophthalmology clinic - used to examine the anterior segment and posterior segment. It is an instrument that you may use every day. But, are you using it to its full capacity? The slit lamp biomicroscope is a versatile instrument that, when used properly, can elevate your ability to be an effective and efficient ophthalmic technician. This course starts with the basics of how the slit lamp works and the techniques used (including lighting techniques) to examine the eye. The course will conclude with more advanced techniques used to elevate your skill with the instrument.

NEW! Testing for Premium IOLs with OCT and Topography (01SU2)
Sarah Armstrong, CRA, OCT-C, Chapel Hill, NC
Kenneth Cohen, MD, Chapel Hill, NC
Sunday, 9:10 am-10:00 am Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2
Description: This course will discuss the way that a surgeon uses the test results to determine which lens to use and the best surgical method based on different types of patients. Tips for acquiring the accurate test results needed to determine the proper premium IOL will be reviewed.

Anterior Segment Pathology Imagined with UBM (04SU4)
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada
Sunday, 11:30 am-12:20 pm Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2
Prerequisite: Prior experience with ocular anatomy and UBM is recommended.
Description: This course will illustrate anterior segment pathology with the ultrasound biomicroscope. Basic ultrasound physics will be covered to help the attendees better understand the workings of the instrument. The anterior segment of the eye will be illustrated with examples using UBM images and videos.

NEW! Demystifying Intraocular Tumors Ultrasound: Principles and Pearls to Success (08SA4)
Tanya McClendon, COA, CDOS, ROUB, Ann Arbor, MI
Maria Ayres, MD, CDOS, ROUB, Ann Arbor, MI
Elizabeth Parrish, COA, CDOS, ROUB, Petersburg, MI
Saturday, 11:30 am-12:20 pm Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2
Description: This course will provide a comprehensive review of ophthalmic A-, B-Scan exams, and high resolution ultrasound with emphasis on intraocular tumors. Sonographic features of intraocular tumors will be presented including undifferentiated small tumors, melanocytic and lymphocytic tumors, anterior segment and metastatic tumors. It will feature an interactive approach and audio-visual demonstration of examination techniques.

Descriptive Interpretation of FA (04SA6)
Mark Maio, FOPS, Alpharetta, GA
Saturday, 1:50 pm-2:40 pm Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1
Description: This course will cover light and fluorescein angiography including descriptions of hypo and hyperfluorescence and angiogram phases. The top 10 most common retinal pathologies as images by fluorescein angiography will be discussed.

Fundamentals of UBM Imaging: A Practical Approach for the Technician (08SA5)
Maria Ayres, MD, CDOS, ROUB, Ann Arbor, MI
Tanya McClendon, COA, CDOS, ROUB, Ann Arbor, MI
Elizabeth Parrish, COA, CDOS, ROUB, Petersburg, MI
Saturday, 12:40 pm-1:30 pm Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2
Description: This course will provide a comprehensive review of anterior segment imaging with UBM and its practical clinical uses for evaluation of pathologies of the anterior segment. The focus will be on a documented case-based approach to help attendees become familiar with the procedures and interpretation of UBM exams.
17. Instruments and Specialized Tests

**Introduction to Corneal Topography (EyeCareCE)**
Aaron Shukla, PhD, COMT, Saint Paul, MN
Online Course
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2
Prerequisite: This introductory course is being offered in advance of the conference at www.EyeCareCE.org. It will NOT be offered on-site. To access this course, visit www.EyeCareCE.org. Click on the “My Courses” tab, and sign in to view the course. Upon completion of the course you will earn (1) A IJCAHPO Credit.
Description: This course will describe the measurement of corneal topography. A review of the types of technologies that are available will be given as a prelude to the hands-on session. The advantages, disadvantages and unique capabilities of each will be discussed. In addition, the various types of displays will be explained from a practical perspective, including how to interpret curvature, power and elevation maps, as well as the relationship among them. Clinical examples will be presented, highlighting the value of this information for diagnostic and therapeutic applications, as well as the limitations. Although this course is a required prerequisite to a corneal topography hands-on session, it will also be helpful to participants who are unable to attend a hands-on session.

**Introduction to Practical Refraction: Minus Cylinder (EyeCareCE)**
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada
Online Course
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Prerequisite: This introductory course is being offered in advance of the conference at www.EyeCareCE.org. It will NOT be offered on-site. To access this course, visit www.EyeCareCE.org. Click on the “My Courses” tab, and sign in to view the course. Upon completion of the course you will earn (1) A IJCAHPO Credit.
Description: Keratometry is a widely accepted technique for measuring the anterior corneal curvature. Keratometry is essential in evaluating the anterior segment. It is especially important when fitting soft and rigid contact lenses, compensating intraocular lens powers, and for evaluation of the cornea, particularly before and after corneal surgery. Accuracy when taking “K” readings is of utmost importance for proper patient care. This course will outline the value, use, procedure, and interpretation of keratometry. Although this course is a required prerequisite to a keratometry hands-on session, it will also be helpful to participants who are unable to attend a hands-on session.

16. Visual Fields

**Visual Pathway and the Visual Field (07SU6)**
Carol Pollack-Rundle, BS, COMT, OSC, Saline, MI
Sunday, 1:50 pm-2:40 pm
Credits: 1 A IJCAHPO, AOC-C
Description: This course will teach the anatomy of the visual pathway from the optic nerve to the occipital cortex. The structural anatomy will then be correlated to visual function (visual field). Examples of visual field defects in clinical settings will be discussed.

**NEW! Goldmann Visual Field Testing (08SU3)**
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada
Sunday, 10:20 am-11:10 am
Credits: 1 A IJCAHPO
Description: This course will take participants back to the roots of Goldmann visual field testing and illustrate that in the correct hands, the Goldmann perimeter is still a valid test today. The course will cover the visual pathways, the normal visual field, the basics of the Goldmann perimeter, and visual field defects illustrated on Goldmann visual fields.

**Perimetry Phobia: Don’t Fear the Field (04SU7)**
Savoy Turman, COMT, OCS, Fort Collins, CO
Sunday, 3:00 pm-3:50 pm
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: This course will provide technicians the basis of Goldmann and Humphrey Perimetry. Discussions will include the importance of visual field testing and the assistance that perimetry gives to diagnosis and treatment of patient conditions. Techniques on how to best gather visual fields and garner patient cooperation will be reviewed. A variety of visual field defects and patterns will be discussed as well as the importance of valid results.

**Visual Field Testing (07FR1)**
Suzanne Hansen, MEd, COMT, OSC, Frisco, TX
Friday, 8:00 am-8:50 am
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: Understanding visual field testing is essential in the eye clinic. This course will review various common pitfalls to avoid in order to obtain more reliable results for your physician. Methods of visual field testing, key terminology, common defects seen in visual field testing will also be reviewed. The course will focus on key components to ensure the visual field is ready for the physician to review.
Introduction to Practical Refraction: Plus Cylinder (EyeCareCE)
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada
Online Course
Credits: 1 A IJCAHPO, AOC-C
Prerequisite: This introductory course is being offered in advance of the conference at www.EyeCareCE.org. It will NOT be offered on-site. To access this course, visit www.EyeCareCE.org. Click on the “My Courses” tab, and sign in to view the course. Upon completion of the course you will earn (1) A IJCAHPO Credit.
Description: This course will detail the process of refraction in plus and minus cylinder using a modified fogging technique. A simple systematic approach will be emphasized. Although this course is a required prerequisite to a refraction hands-on session, it will also be helpful to participants who are unable to attend a hands-on session.

Introduction to the Use of the Slit Lamp Microscope (EyeCareCE)
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada
Online Course
Credits: 1 A IJCAHPO, AOC-NC
Prerequisite: This introductory course is being offered in advance of the conference at www.EyeCareCE.org. It will NOT be offered on-site. To access this course, visit www.EyeCareCE.org. Click on the “My Courses” tab, and sign in to view the course. Upon completion of the course you will earn (1) A IJCAHPO Credit.
Description: This course will serve as an introduction to the use of a slit lamp. The main components of the slit lamp will be discussed and the various types of illumination will be reviewed. Although this course is a required prerequisite to a slit lamp hands-on session, it will also be helpful to participants who are unable to attend a hands-on session.

Introduction to Tonometry (EyeCareCE)
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada
Online Course
Credits: 1 A IJCAHPO, AOC-NC
Prerequisite: This introductory course is being offered in advance of the conference at www.EyeCareCE.org. It will NOT be offered on-site. To access this course, visit www.EyeCareCE.org. Click on the “My Courses” tab, and sign in to view the course. Upon completion of the course you will earn (1) A IJCAHPO Credit.
Description: This introductory course will explain the basic concepts behind tonometry and the different methods of measuring intraocular pressure with special attention to the Goldmann applanation tonometry technique. The course will also include discussion on the importance of central corneal thickness and of sources of error in tonometry. Although this course is a required prerequisite to a tonometry hands-on session, it will also be helpful to participants who are unable to attend a hands-on session.

Learning Systems: Retinoscopy and Refinement (EyeCareCE)
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada
Online Course
Credits: 1 A IJCAHPO
Prerequisite: This introductory course is being offered in advance of the conference at www.EyeCareCE.org. It will NOT be offered on-site. To access this course, visit www.EyeCareCE.org. Click on the “My Courses” tab, and sign in to view the course. Upon completion of the course you will earn (1) A IJCAHPO Credit.
Description: Retinoscopy measures an eye's refractive error by using a retinoscope. In this course, you will learn how the retinoscope operates. This course will describe ametropia, emmetropia, myopia, hyperopia, astigmatism, and presbyopia.

18. Contact Lenses/Spectacles/Optical Dispensing

Soft Contact Lens Skills Transfer Lab (11FR12)
Peter Donshik, MD, West Hartford, CT
William Ehlers, MD, Avon, CT
Wendy Ford, COMT, FCLSA, Springfield, VA
Melvin Freeman, MD, FACS, Bellevue, WA
Friday, 8:00 am-10:00 am
Credits: 2 A IJCAHPO, AOC-NC
Description: This is an introductory course for AOP that want to add soft contact lens fitting to their current skills. The course will utilize a PowerPoint® presentation, videos and computer interactions to teach and demonstrate principals of soft contact lens fitting. The attendee will utilize computer simulation and hands-on schematic eyes with contact lenses to select the appropriate initial contact lenses and evaluate the fit.

Specialty Contact Lenses in Ophthalmology (08FR4)
Buddy Russell, COMT, FCLSA, ABOC, NCLEC, Loganville, GA
Friday, 11:30 am-12:20 pm
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: Patients often seek the ophthalmologist to solve any and all eye problems. This course will present the various conditions that require a medically indicated contact lens for visual rehabilitation. In addition, fitting techniques and evaluations for each entity will be explored.

What?! I Have an Rx Check? (06SU3)
Sergina Flaherty, COMT, San Antonio, TX
Sunday, 10:20 am-11:10 am
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: This course will provide participants with many tips and techniques to troubleshoot returning patients with dissatisfaction regarding their new glasses or prescription. Various scenarios and solutions will be presented.
Financial interest disclosed
19. Visual Assessment and Therapy

**INTERMEDIATE**

**Pupils: What is Normal and What is Not (05FR6)**
Sharon Alamalhodaei, COMT, Palm Coast, FL
Ashley White, COT, Newnan, GA
Friday, 1:50 pm-2:40 pm

**Description:** Assessing pupillary function is one of the most important skills every tech must develop. This course will teach proper pupillary assessment techniques and how to identify both normal pupils and abnormalities. It will explain the anatomy and physiology of the afferent and efferent neural pathways as they apply to pupillary function and the associated signs of pupillary abnormalities. A demonstration and video will be shown.

**Financial interest disclosed**

**NEW! RAPD: How to Do It and What It Means (05SU5)**
Jade Schiffman, MD, FAAO, FAAN, Houston, TX
Sunday, 12:40 pm-1:30 pm

**Description:** A RAPD is one of the most objective signs in ophthalmology and requires investigation as to the cause. RAPD may come in large and small varieties, and often small RAPDs are not recognized which could lead to poor patient outcomes. This course will go from a basic to more advanced understanding of this sign and how to measure it.

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20. Masters Courses

**Clinical Trials Update 2018 (03SA3)**
William Mieler, MD, Chicago, IL
Saturday, 10:20 am-11:10 am

**Description:** This 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 to pre-existing treatment modalities, and a discussion will ensue regarding how the results of the new trials fit into our current treatment patterns.

**Financial interest disclosed**
NEW! Extended Depth of Focus Optics in the Symfony Intraocular Lens (05FR3)
Rahul Pandit, MD, Houston, TX
Friday, 10:20 am-11:10 am
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: This course will discuss the optical properties of the Symfony extended depth of focus intraocular lens. The discussion will include how the lens works optically, patient selection, and the advantages and disadvantages of the Symfony lens over other options available.

Facial Paralysis and Facial Dystonias (08FR2)
Vladimir Yakopson, MD, FACS, Tacoma, WA
Friday, 9:10 am-10:00 am
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: This course will discuss the pathologic basis, clinical presentation and treatment of facial paralysis, such as Bell’s palsy, and facial dystonias, blepharospasm and hemifacial spasm. Use of botulinum toxin and various surgical techniques will be presented.

Grand Rounds Case Presentation: Neuro-Ophthalmology (08FR6)
Karl Goinik, MD, MEd, Blue Ash, OH
Friday, 1:50 pm-2:40 pm
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: This case-based presentation will cover a variety of neuro-ophthalmic conditions including Horner syndrome, ischemic optic neuropathy, myasthenia gravis, and idiopathic intracranial hypertension. The cases will be presented as unknowns and the audience will be encouraged to participate in the ultimate diagnoses.

Grand Rounds Case Presentation: Optics and Difficult Refractions (01FR4)
William Ehlers, MD, Avon, CT
Friday, 11:30 am-12:20 pm
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Prerequisite: Knowledge of ophthalmic terminology and optics.
Description: This course is a grand rounds format with case presentations of past optical problems the ophthalmic technician may encounter in daily practice.

Grand Rounds Case Presentation: Retina (05FR4)
Edward Lim, MD, Branford, CT
Friday, 11:30 am-12:20 pm
Credits: 1 A IJCAHPO, AOC-NC
Prerequisite: Basic knowledge of diabetic retinopathy, age-related macular degeneration, and retinal detachments.
Description: Three to four challenging cases will be presented in the areas of diabetic retinopathy, age-related macular degeneration, retinal detachments, and clinical unknowns. These cases will be presented to challenge the participants and to help them better understand clinical decision making. The role of the ophthalmic technician will be emphasized.

Grand Rounds: Case Studies in Ophthalmic Ultrasound (08SA7)
Brandy Lorek, BS, Painesville, OH
Saturday, 3:00 pm-3:50 pm
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1
Description: Interactive case studies focusing on ophthalmic ultrasound will be presented in a grand rounds format. Standardized echography and ultrasound biomicroscopy (UBM) will be demonstrated as effective diagnostic tools in the clinical practice. Clinical findings and other imaging modalities including fundus photography, angiography and OCT will be correlated with ultrasound findings.

NEW! Integrating Artificial Intelligence to Advance Ophthalmic Care (04FR4)
Michael Abramoff, MD, PhD, Iowa City, IA
Friday, 11:30 am-12:20 pm
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1
Description: This course will explore the next transformation in ophthalmology with the application of artificial intelligence (AI) in diagnosing and treating disease in clinical practice. AI is defined as the engineering of intelligent machines and programs, which are trained to perform tasks by exposing multilayered neuronal networks to vast amounts of data. Effective for image recognition, AI has enormous potential to change the way ophthalmic diagnosis is performed, and is the basis for the first FDA-approved system to detect diabetic retinopathy and diabetic macular edema from fundus photographs. Hear from Dr. Abramoff, who developed the first AI system to be FDA-approved for autonomous diagnosis in any field of medicine, and Dr. Chiang, who performs AI research in retinopathy of prematurity, as they explore what AI means in augmenting and improving ophthalmologists’ tools to diagnose and manage patients in their clinical practice.

Investigational Pharmacotherapy for Chorioretinal Vascular Conditions (08SA6)
Michael Stewart, MD,Jacksonville, FL
Saturday, 1:50 pm-2:40 pm
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: Retina practices are being revolutionized by pharmacotherapy and the development pipeline is rich with new drugs. This course will focus on newly introduced drugs and others that are under investigation.

NEW! Master Mystery: Glaucoma Case Investigations (03FR2)
Eydie Miller-Ellis, MD, Philadelphia, PA
Carla Bourne, MD, Orlando, FL
Omolola Idowu, MD, Jackson, MS
Mildred Olivier, MD, Hoffman Estates, IL
Terri Young, MD, Madison, WI
Friday, 9:10 am-10:00 am
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: The glaucoma investigation team has come together to present and discuss mystery glaucoma cases. This course will challenge the attendees as our expert glaucoma investigators present cases and weigh in with their own opinions. This fast-paced course will showcase glaucoma as you have never seen it before by discussing what you thought you knew about glaucoma and illustrating aspects that you have never before considered. Topics addressed will include: 1) Too much of a good thing: A case of hypotony after Baerveldt surgery; 2) A cocktail of procedures: Bilateral uncontrolled IOPs despite maximal medical therapy and laser trabeculoplasties; 3) Rapid vision loss from glaucoma or not?; 4) The mysterious case of iris heterochromia; and 5) Genetic studies: Key to unlocking diagnoses. Hold on tight, the glaucoma investigation team is coming in hot.
My Vision Goes In and Out: So What Does That Mean? (05SU7)
Jade Schiffman, MD, FAAO, FAAN, Houston, TX
Sunday, 3:00 pm-3:50 pm Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Prerequisite: Knowledge of ocular anatomy and ophthalmic terminology.
Description: Transient Vision Loss (TVL) is a common eye complaint. Technical staff need to know how to extract valuable historical information (duration of event, complaint, etc.), and what the complaint means, as well as differential diagnosis of entities, including migraine.
Financial interest disclosed

Mystery Retina 2018: Interactive Discussion of Challenging Cases (03SA2)
William Mieler, MD, Chicago, IL
Saturday, 9:10 am-10:00 am Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1
Prerequisite: Knowledge of ophthalmic anatomy and physiology.
Description: This course will discuss a number of diagnostically challenging “mystery retina” cases. The majority of the presentations will include interpretation of fluorescein angiography and OCT test results. When indicated, other studies will be shown, including indocyanine green angiography, echography, autofluorescence, electrophysiology, and occasionally cytology and histopathology. The cases will be presented as unknown and audience participation will be encouraged. At the completion of the case presentations, the attendees will receive a handout summarizing the cases, complete with pertinent references.
Financial interest disclosed

NEW! We See, But Do We Observe? Solving Challenging Neuro-Op Cases (03FR6)
Thomas Ableman, MD, LCDR, USN, DHA, Gaithersburg, MD
Friday, 1:50 pm-2:40 pm Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: This course emphasizes the power of taking a high quality patient history and using exam techniques to diagnose challenging cases. Cases will be presented that encourage the audience to engage in Sherlock Holmes-style investigative techniques that allied ophthalmic personnel can use to help the ophthalmologist make the right diagnosis.

NEW! Low Vision (02FR56)
Walter Jay, MD, Maywood, IL—Chair
Ashley Alexander, COMT, ROUB, CDOS, Kingston, ON, Canada
Joseph Fontenot, MD, Mobile, AL
Thomas Porter, OD, FAAO, Saint Louis, MO
Gregg Pusateri, OD, Wheaton, IL
John Shepherd, MD, Omaha, NE
Friday, 12:40 pm-2:40 pm Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: Low vision has a great impact on our patients and society. Understanding what our patients experience gives us greater insights into how we can best assist them. This session will address the latest low vision technologies and devices, resources and rehabilitation, to the role technicians have with patient care. The faculty will present: 1) Low Vision Clinic: Stepping Up Your Game; 2) There is Something You Can Do; 3) Driving with Low Vision; 4) Smart Devices and Smart Homes for the Low Vision Patient; and 5) The Technician’s Role of Rehabilitation of Reading for the Low Vision Patient.

NEW! Cornea and Refractive (02FR23)
Derek DelMonte, MD, Aurora, CO—Chair
Francis Mah, MD, La Jolla, CA
Friday, 9:10 am-11:10 am Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: This sub-specialty session will address the latest cornea disease treatments and refractive surgery technologies. These leading faculty will discuss current treatments and surgical technologies of corneal cross-linking, DSAEK and DMEK, and other key topics. They will present best practices and important roles that technicians have in patient care.

Practice Management (02SA67)
Christine McDonald, COA, COE, ROUB, OSC, Fenton, MO—Chair
Laurie Brown, MBA, COMT, COE, OCS, Marana, AZ
Chris Dean, St. Cloud, MN
Cynthia Diogo, COT, OTA, OSC, Missilnburg, PA
Maureen Waddle, MBA, Wilton, CA
Saturday, 1:50 pm-3:50 pm Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1
Prerequisite: A minimum of two years in the ophthalmic practice.
Description: This session will focus on practice management trends for a high functioning practice to increase practice productivity and profitability. The session will address balancing clinical efficiency with quality care using best practices. Topics include: 1) The Most Common Mistakes in Chart Documentation, What Auditors Look for and How to Prevent Them; 2) Tips for developing an efficient patient schedule—schedules are essential components to patient satisfaction as well as maximizing physician and staff productivity, including the methodology to analyze and design the clinic schedule to meet these objectives; 3) Staying current with government regulations: Years 2 and 3 of MIPS/MACRA, Compliance, OSHA, HIPAA and how to get staff on board; 4) Best practices for EHR, patient security and confidentiality; and 5) Increasing staff morale through training; how effective training can change practice culture. Lessons learned, cases and examples will be shared, as well as the presenters will participate in a question and answer session.

21. Sub-Specialty Sessions
22. Learning Labs

For Learning Lab course codes, refer to Day-at-a-Glance on pages 12-17.

**ADVANCED**

**Neuro-Ophthalmology (02SU45)**
Richard Allen, MD, PhD, FACS, Houston, TX
Jonathan Collins, MD, Kensington, MD
Rosa Tang, MD, MPH, MBA, FAAO, Houston, TX
Michael Vaphiades, DO, Birmingham, AL

Sunday, 11:30 am-1:30 pm Credits: 2 A IJCAHPO, CEP:CABRN-1

Description: This session will feature common neuro-ophthalmic conditions. The faculty will feature cases designed to highlight important conditions and treatment options. The session will present the following topics: 1) I have a Headache; 2) Horner’s Syndrome; 3) Optic Neuritis; and 4) Facial Nerve Palsy: Time Bomb for the Eye!

**Retina (02SU12)**
Michael Stewart, MD, Jacksonville, FL—Chair
Kelly Mitchell, MD, Lubbock, TX
Lawrence Morse, MD, Sacramento, CA
Stephen Schwartz, MD, Naples, FL

Sunday, 8:00 am-10:00 am Credits: 2 A IJCAHPO, CEP:CABRN-1

Prerequisite: A minimum of one year of experience in a retina practice.
Description: This session will provide an update on current concepts and technologies; new and emerging imaging technologies; treatments and new therapeutics; and surgical procedures and practices in the retina sub-specialty. Key retina topics will be covered such as advances in treatment of diabetic retinopathy; Swept Source Optical Coherence Tomography; advances in vitreoretinal surgery; and genetics in AMD, vein occlusions and the latest in retinal surgery procedures.

**Keratometry**
Rachel Crabtree, COA, Union, KY
Sarah Gill, COT, OSC, St. Louis, MO
Jessica Brown, COT, Mohnton, PA
Tracy Cruz, COA, CSA, OCS, OSA, Alexandria, KY
Cynthia Diogo, COT, OSC, OSA, Northumberland, PA
Martha Fisher, COT, Galsford, IL
Elizabeth Foley, COMT, OSC, Mohrsville, PA
Kelly Moehrie, COT, OSC, Rochester, PA
Holly Ricks, COT, OCS, Cary, IL
Tiffany Riddle, COA, Lady Lake, FL

Friday, 1:50 pm-3:50 pm Credits: 2 A IJCAHPO, AOC-NC

Prerequisite: The lecture, “Introduction to Keratometry,” is required and is offered in advance of the course registration. Upon registering for this learning lab, you will need to register for the introductory, online course. After registering for this course, visit www.EyeCareCE.org to access the course. Click on the “My Courses” tab, and sign in. Upon completion of the course you will earn (1) A IJCAHPO CE Credit.

Description: This hands-on lab is recommended for participants who have had less than one year of experience working with the manual and/or automated keratometers. This course provides practical experience in the use of the manual and the automated keratometer. Bausch & Lomb keratometers will be provided. Attendees may be asked to volunteer to act as patients and should come prepared to remove contact lenses. Important: Participants must furnish their own penlight.

**Ocular Motility: Identifying and Measuring Deviations (10SU12W)**
Aaron Shukla, PhD, COMT, Saint Paul, MN

Sunday, 8:00 am-10:00 am Credits: 2 A IJCAHPO, AOC-C

Description: Demonstrations will be followed by hands-on practice with ongoing reviews and feedback. The following principles will be presented: 1) the difference between phoria and tropia, and how to detect them using appropriate cover tests at distance and near (cover-uncover test, alternate cover test, prism and alternate cover test and simultaneous prism and cover test); 2) how to use the corneal light reflexes to estimate (Hirschberg method) or measure (Krimsky method) deviations at distance and near; 3) how to classify deviations for distance and near; and 4) how to properly notate results of various tests.

**BASIC**

**Anatomy and Dissection of the Eye**
Peter Donshik, MD, West Hartford, CT
Steven Lichtenstein, MD, FAAP, FACS, FAAO, Peoria, IL
Matthew Ammer, COA, Wheeling, IL
Ashley Blackwell, COA, Evans, GA
Jennifer Boush, COT, OSC, OSA, Watertown, WI
Rachel Crabtree, COA, Union, KY
Kenneth Dickerson, COMT, OSA, Sanger, TX
Pooja Doshi, COA, Arlington, VA
Martha Fisher, COT, Galsford, IL
Eva Kroneker, CCOA, Encinitas, CA
Jessie Schultz, COT, Nashville, TN
Crystal Stanfa, COT, OSC, OSA, Sylvania, OH
Danielle Thuen, COA, OSC, Macon, GA
Elizabeth Truax, COMT, OSA, Delray Beach, FL
Joan Wilson, BS, COMT, OSC, Miamiusburg, OH

Refer to Day-at-a-Glance for course times Credits: 1 A IJCAHPO, AOC-NC

Description: The instructor will perform a dissection of a pig eyeball and will discuss the anatomy and physiology of the external anatomy, cornea, iris, ciliary body, zonular apparatus, crystalline lens, vitreous body, retina, choroids and sclera. Following the demonstration, participants will have an opportunity to dissect a pig’s eyeball.

**Comprehensive Lensometry Lecture and Lab (09FR67W)**
Homise Johnson, COMT, Rochester, NY
Sarah Gill, COT, OSC, St. Louis, MO
Mary Lemanski, COT, Fond Du Lac, WI
Melissa Mengert, COT, Fond Du Lac, WI

Friday, 1:50 pm-3:50 pm Credits: 2 A IJCAHPO, AOC-NC

Description: This will be a comprehensive lecture plus hands-on Learning Lab on the use of manual and automated lensometers. Tips will be given to help the technician as well as step-by-step tools in the skill process.
Overview of Low Vision Devices: Avoid the Pain, Enjoy the Gain! (10FR7W)
Thomas Porter, OD, FAAO, Saint Louis, MO
Friday, 3:00 pm-3:50 pm Credits: 1 A IJCAHPO, AOC-NC

Description: This lab is designed to provide an overview of the types of low vision devices that can help patients with macular degeneration, diabetic retinopathy, and other eye diseases that cause vision loss. A review of the benefits of each of the major categories of device (hand-held, stand, spectacle and video magnifiers as well as telescopic systems) will be discussed and attendees will have the opportunity to view samples of each type of device. Time-saving tips will be provided to demonstrate and maximize successful patient outcomes.

NEW! Pupil Exam (10SU5W)
Ashley Alexander, COMT, ROUB, CDOS, Kingston, ON, Canada
Sunday, 12:40 pm-1:30 pm Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1

Description: This lab will take the attendees through the pupil examination process using two different methods. The first is the current and standard pupil reaction test using a flashlight and a ruler. Instruction will include testing the pupil for diameter, direct reaction, consensual reaction, and testing for an RAPD. The second method is using the Afferent Pupil Tester which is the latest pupil evaluation instrument.

Refraction: Minus Cylinder (12SU34W)
Jill Pullman, COT, ROUB, Brecksville, OH
Sahra Bartolazzi, COT, East Peoria, IL
Jean-Robert Dumont, COA, West Palm Beach, FL
Christine Matthias, COA, OSC, OSA, Mandeville, LA
Kelly Moehrle, COT, OSC, Rochester, PA
Sunday, 10:20 am-12:20 pm Credits: 2 A IJCAHPO, AOC-C

Prerequisite: The lecture, “Introduction to Practical Refraction-Minus Cylinder,” is required and is offered in advance of the conference at www.EyeCareCE.org. Upon registering for this learning lab, you will need to register for the introductory, online course. After registering for this course, visit www.EyeCareCE.org to access the course. Click on the “My Courses” tab, and sign in. Upon completion of the course you will earn (1) A IJCAHPO Credit.

Description: Attendees should have a basic understanding of optics in spheres, axis and power of cylinders, as well as a basic understanding of myopia, hyperopia, astigmatism, and accommodation. Familiarity with the process of refining a retinoscope reading is also helpful. This hands-on lab will demonstrate and teach subjective refraction through a modified fogging technique, using the refractor. Information on recording results will be presented. The following will be covered: 1) introduction to the mechanics of the refractor; 2) instruction in the use of the cross cylinder; 3) instruction in subjective refraction using a modified fogging technique; and 4) instruction in recording the results. Important: Attendees who have a current prescription for glasses are asked to bring them to the session. In addition, attendees may be asked to volunteer as patients and should come prepared to remove contact lenses.

Surgical Assisting (10FR12W)
Natalie Loyacano, COMT, CRA, OSA, Mandeville, LA
Tracy Cruz, COA, CSA, OCS, OSA, Alexandria, KY
Kenneth Dickerson, COMT, OSA, Sanger, TX
Barbara Krzesowski, COT, LPN, OSA, Green Pond, NJ
Friday, 8:00 am-10:00 am Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1

Description: This lab will include beginning knowledge and hands-on instruction for technicians preparing to enter the ophthalmic surgery operating suite or for those who are thinking about entering the operating room in the coming year. This course will cover general ophthalmology topics. Topics covered will include: basic anatomy, types of ophthalmic surgery, surgery steps and the reason for each step and basic principles of gowned, gloved and sterile technique.

Tonometry
Eva Kroneker, CCOA, Encinitas, CA
Michele Sheehan, COMT, Stratford, NJ
Nicole Alacci, COT, Philadelphia, PA
Jean-Robert Dumont, COA, West Palm Beach, FL
Liam Marucci, COA, Philadelphia, PA
Veronica Plessinger, COT, Polan, Poland, OH
Holly Rice, COT, OSC, Cary, IL
Rebecca Steffes, COT, Fond Du Lac, WI
Refer to Day-at-a-Glance for course times Credits: 1 A IJCAHPO, AOC-NC

Prerequisite: The lecture, “Introduction to Tonometry,” is required and is offered in advance of the conference at www.EyeCareCE.org. Upon registering for this Learning Lab, you will need to register for the introductory, online course. After registering for this course, visit www.EyeCareCE.org to access the course. Click on the “My Courses” tab, and sign in. Upon completion of the course you will earn (1) CE Credit.

Description: This lab provides the beginning ophthalmic assistant with an opportunity to learn how to use the Goldmann tonometer and Tonopen instruments, and each instrument’s method of measuring pressure.
IJCAHPO Course Descriptions

UM

Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada

Refer to Day-at-a-Glance for course times Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

Prerequisite: The lecture, “Introduction to UBM,” is required and is offered in advance of the course at www.EyeCareCE.org. Upon registering for this Learning Lab, you will need to register for the introductory, online course. After registering for this course, visit www.EyeCareCE.org to access the course. Click on the “My Courses” tab, and sign in. Upon completion of the course you will earn (1) A IJCAHPO Credit.

Description: This lab will allow the attendees an opportunity to perform a UBM exam. The basics of the exam will be covered, along with scanning techniques and tips for getting better images.

INTERMEDIATE

Assisting in Intravitreal Injections (10SA7W)

Nickole Delaney, COA, OSC, Columbus, OH
Syed Parvez, COT, OSC, San Antonio, TX

Saturday, 3:00 pm-3:50 pm Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

Description: This hands-on lab will introduce the participants to a practical approach to assisting in intravitreal eye injections and demonstrate prevention strategies to reduce the potential of endophthalmitis. Aseptic techniques, lid prep, room preparation, instrument setup, and control strategies will be exhibited while keeping the patient safe and comfortable during the procedures. Participants will take part in and be observed in the practice, processes and properties (knowledge, skills and attributes) to enhance the patient experience.

Cirrus HD-OCT

Ryan Bortz, COA, Tempe, AZ
Connie McKeen, CCOA, Vancouver, WA
Bruce Bailey, COT, Valley Springs, CA
Cindy Chiu, COT, Chicago, IL
Tracy Morales, COT, Auburn, MA
Nakeya Pewitt, COA, Canton, MI

Refer to Day-at-a-Glance for course times Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1

Description: This lab will discuss clinical applications of Cirrus HD-OCT, review proper operation of the instrument and how to read the most common analysis options. The course will focus on basic and advanced operator techniques and overcoming difficult obstacles. It will also cover troubleshooting techniques, including critiquing of current operator technique.

Financial interest disclosed

Contact B-Scan Ultrasonography

Janae Hines, COA, CDOS, ROUB, Dallas, TX
Jacqueline Schmits, COT, San Jose, CA
Justine Andreotti, COA, Farmingdale, NY
Cheryl Kiesel, COA, CDOS, ROUB

Ann Mungioli, COA, Garland, TX
Michele Palmer-Browswick, COT, Aurora, CO
Mary Phonprasansack, COMT, Eagan, MN
Melissa Pickard, COA, CDOS, Fletcher, NC

Kimberly Wepking-Richards, BS, COT, Janesville, WI

Refer to Day-at-a-Glance for course times Credits: 1 A IJCAHPO, AOC-NC, OPS 1:2

Prerequisite: The lecture, “Introduction to Contact B-Scan Ultrasonography,” is required and is offered in advance of the conference at www.EyeCareCE.org. Upon registering for this learning lab, you will need to register for the introductory, online course. After registering for this course, visit www.EyeCareCE.org to access the course. Click on the “My Courses” tab, and sign in. Upon completion of the course you will earn (1) A IJCAHPO Credit.

Description: This lab will provide comprehensive hands-on training in the fundamental skills needed to perform a basic diagnostic B-scan examination of the eye. Terminology and basic principles of examination will be demonstrated at the instrument. Students will have an opportunity to perform diagnostic B-scan evaluations on each other, and to learn proper techniques of examination to provide the physician with a detailed echographic picture of the globe.

Corneal Topography with the Pentacam (11SA23W)

Chris O’Flaherty, Arlington, WA

Saturday, 9:10 am-11:10 am Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1

Prerequisite: The lecture, “Introduction to Corneal Topography,” is required and is offered in advance of the conference at www.EyeCareCE.org. Upon registering for this learning lab, you will need to register for the introductory, online course. After registering for this course, visit www.EyeCareCE.org to access the course. Click on the “My Courses” tab, and sign in. Upon completion of the course, you will earn (1) A IJCAHPO Credit.

Description: Corneal topography devices are becoming increasingly more sophisticated. Topography helps your doctor study the shape, thickness, and integrity of the cornea. The Pentacam is a specialized piece of equipment for accurately mapping the shape of the cornea and in many cases, can help determine treatment for a disease before it begins to cause any reduction in vision. This lab will highlight the equipment operations and examination methods for corneal mapping.

Financial interest disclosed

ERGs and VEPs in an Ophthalmology Office: Lecture and Lab (13SU12W)

Joanne Yawn, COT, San Antonio, TX
April Anderson, CCOA, Paris, KY
Kimberly Dykeman, COA, Kingswood, TX

Sunday, 8:00 am-10:00 am Credits: 2 A IJCAHPO, AOC-C, CEP: CABRN-1

Description: This will be a lecture plus hands-on Learning Lab. It will expand the ophthalmic technician’s knowledge of diagnostic ERG and VEP by flash and pattern stimuli. The hands-on component will feature equipment, testing methods, sensors, clinical applications, test protocols and patient set up. Standard wave forms and data from test results will be reviewed for quality test outcomes for integration of objective data for physician’s medical decision and care plan.

Financial interest disclosed
**NEW! Exam Skills (13SA2W)**
Maria Blackburn, BSc, COMT, ROUB, CDOS, Ottawa, ON, Canada
Anna Kiss, COMT, OSC, Alexandria, VA
Marc Lafontaine, BSc, COMT, Ottawa, ON, Canada
Saturday, 9:10 am-10:00 am  Credits: 1 IJCAHPO, AOC-C, CEP: CABRN-1
**Description:** In this lab, attendees will have the opportunity to perform three different skills while rotating through stations. The three skills covered are pupil assessment, basic ocular motility and direct ophthalmoscopy.

**Fundus Photography**
Cindy Chiu, COT, Chicago, IL
Nakeya Pewitt, COA, Canton, MI
Bruce Bailey, COT, Valley Springs, CA
Tracy Morales, COT, Auburn, MA
Refer to Day-at-a-Glance for course times  Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1
**Description:** A brief lecture, followed by a hands-on lab, will discuss clinical applications of fundus photography. The course will provide an opportunity for hands-on practice with a ZEISS Visucam Retinal Camera, including instruction on proper operation and troubleshooting techniques.
**Financial interest disclosed**

**Lenstar Optical Biometry (09FR12W)**
Robert Bowling II, BSc, COA, Loveland, OH
Friday, 8:00 am-10:00 am  Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1
**Description:** This lab will teach the participant how to use, and the functionality of, the Lenstar Optical Biometer from Haag-Streit.
**Financial interest disclosed**

**Neuro-Tech (10FR45W)**
Aaron Shukla, PhD, COMT, Saint Paul, MN
Homise Johnson, COMT, Rochester, NY
Ashley White, COT, Newnan, GA
Friday, 11:30 am-1:30 pm  Credits: 2 A IJCAHPO, CEP: CABRN-1
**Description:** In this lab, you will receive hands-on training in APD screening, confrontational visual field testing and ocular motility muscle evaluation. The goals of the three skills are to build the relationship among techniques, sharpen technical focus, and improved testing outcomes.

**Ocular Motility: Identifying and Measuring Binocular Function (10SU3W)**
Aaron Shukla, PhD, COMT, Saint Paul, MN
Sunday, 10:20 am-11:10 am  Credits: 1 A IJCAHPO, AOC-C
**Prerequisite:** Knowledge of the anatomy of extraocular muscles (EOM) for eye movements; primary, secondary and tertiary actions of EOM; positions of gaze; and basic knowledge of prisms.
**Description:** Demonstrations will be followed by hands-on practice with ongoing reviews and feedback. The learning lab will cover: 1) binocular function (Hering’s and Sherrington’s Laws, angle kappa, Panum’s area, and retinal correspondence); 2) controls of fusion and stereopsis, and how to disrupt them for obtaining measurement; 3) use of red and white Maddox Rod cylinder lenses for identifying deviations; 4) use of Worth 4 Dot for identifying deviations; 5) identification of duction, version, and vergence movements; 6) measurement of fusional amplitudes; and 7) how to properly note results for various tests.

**Retinoscopy: Minus Cylinder (13FR67W)**
David Norath, COT, Saint Louis, MO
Kenneth Dickerson, COMT, OSA, Sanger, TX
Keith Mallory, COA, Los Angeles, CA
Kimberly Wepking-Richards, BS, COT, Janesville, WI
Michelle Willis, COMT, OSA, OSC, Spring Hill, TN
Friday, 1:50 pm-3:50 pm  Credits: 2 A IJCAHPO, AOC-C
**Prerequisite:** The lecture “Learning Systems: Retinoscopy and Refinement” is required and is being offered in advance of the conference at www.EyeCareCE.org. Upon registering for this learning lab, you will need to register for the introductory, online course. After registering for this course, visit www.EyeCareCE.org, and click on the “My Courses” tab, then login to access the course. Upon completion of the course you will earn (1) A IJCAHPO Credit.
**Description:** This lab is designed to give the student hands-on instruction on the estimation of astigmatic refractive errors, including enhancement techniques, using the phoropter.
**Important:** Participants must furnish their own penlight.

**Retinoscopy: Plus Cylinder**
David Norath, COT, Saint Louis, MO
Matthew Ammer, COA, Wheeling, IL
Debra Clarke, COT, Dickinson, TX
Pooja Doshi, COA, Arlington, VA
Mary Guardalabene, COT, Milwaukee, WI
Marc Lafontaine, BSc, COMT, Ottawa, ON, Canada
Mary Lemanski, COT, Fond Du Lac, WI
Syed Parvez, COT, OSC, San Antonio, TX
Mary Phonprasansack, COMT, Eagan, MN
Refer to Day-at-a-Glance for course times  Credits: 2 A IJCAHPO, AOC-C
**Prerequisite:** The lecture “Learning Systems: Retinoscopy and Refinement” is required and is being offered in advance of the conference at www.EyeCareCE.org. Upon registering for this learning lab, you will need to register for the introductory, online course. After registering for this course, visit www.EyeCareCE.org, and click on the “My Courses” tab, then login to access the course. Upon completion of the course you will earn (1) A IJCAHPO Credit.
**Description:** This lab will give the student hands-on instruction on the estimation of astigmatic refractive errors, including enhancement techniques, using the phoropter.
**Important:** Participants must furnish their own penlight.
IJCAHPO Course Descriptions

Slit Lamp Microscopy
Maria DeCain, COA, Washington, DC
Sally Ellen Scanlon, COT, OSA, Fort Myers, FL
Amy Bergey, COA, Canton, MN
Tracy Cruz, COA, CSA, OCS, OSA, Alexandria, KY
Marian Hoppes, COA, Ypsilanti, MI
Christine Matthias, COA, OSC, OSA, Mandeville, LA
Tiffany Riddle, COA, Lady Lake, FL
Amy Bergey, COA, Canton, MN
Carolyn Schmidt, COA, Crofton, MD
Jessie Schultz, COT, Nashville, TN
Heather Wilson, COA, Worcester, MA

Refer to Day-at-a-Glance for course times Credits: 2 A IJCAHPO, AOC-NC

Prerequisite: The lecture, “Introduction to the Use of the Slit Lamp Microscope,” is required and is offered in advance of the conference at www.EyeCareCE.org. Upon registering for this learning lab, you will need to register for the introductory, online course. After registering for this course, visit www.EyeCareCE.org to access the course. Click on the “My Courses” tab, and sign in. After completion of the course you will earn (2) A IJCAHPO Credits.

Description: This hands-on lab is recommended for participants who have little (six months to one year) experience working with the slit lamp microscope. A hands-on session on the use of the slit lamp microscope will be presented. Uses of various types of illumination will be discussed and practiced. Convergent and parallel optical systems (similar to Haag-Streit and Zeiss models) will be provided.

Ultrasound Biometry (A-Scan)
Jennifer Boush, COT, OSC, OSA, Watertown, WI
Janae Hines, COA, CDOS, ROUB, Dallas, TX
Carolyn Schmidt, COA, Crofton, MD
Jacqueline Schmists, COT, San Jose, CA
Matthew Ammer, COA, Wheeling, IL
Ashley Blackwell, COA, Evans, GA
Cassandra Brisbane, COA, Chevy Chase, MD
Valerie Cuddy, COA, Bourbonnais, IL
Jean-Robert Dumont, COA, West Palm Beach, FL
Dawn Hughes, COA, ROUB, Leesberg, FL
Richard Johnson, COA, OPS, Joliet, IL
Cathy Morales, COT, OSC, Lawton, OK
Michele Palmer-Browick, COT, Aurora, CO
Mary Phonprasansack, COMT, Eagan, MN
Veronica Pleissinger, COT, Poland, OH
Jill Pullman, COT, ROUB, Brecksville, OH
Michelle Steele, COA, ABOC, NCLEC, Eau Claire, WI

Refer to Day-at-a-Glance for course times Credits: 1 A IJCAHPO, AOC-NC

Prerequisite: The lecture, “Introduction to Ultrasound Biometry,” is required and is offered in advance of the conference at www.EyeCareCE.org. Upon registering for this workshop, you will need to register for the introductory, online course. After registering for this course, visit www.EyeCareCE.org to access the course. Click on the “My Courses” tab, and sign in. Upon completion of the course you will earn (1) A IJCAHPO Credit.

Description: This lab will provide comprehensive hands-on training in the fundamental skills needed to perform an A-scan examination of the eye. A-scan echo pattern recognition and interpretation will be discussed. Participants will understand the concepts of gain, gates and velocities, and how they affect axial length measurements, and learn how the A-scan instrument ‘thinks’ to better interpret the numbers and echo patterns. Students will have an opportunity to perform A-scan evaluations on each other.
Visual Fields with the Octopus (12SU56W)
Sandra Mohring, Mason, OH
Sunday, 12:40 pm-1:30 pm  Credits: 1 A IJCAHPO

Description: This intermediate course will combine both educational perimetric points and discussion with hands-on experience view of clinical applications using the Haag-Streit Octopus 900 Pro – both static and Goldmann Kinetic methods. The workshop will cover the following: Review and discussion of 1) WHY field testing is so important – from disease to disability; 2) WHERE testing occurs – methods, programs, strategies 3) WHAT we are viewing in outcomes (explanation of both Octopus and Humphrey Printouts); 4) HOW to obtain the most accurate field possible, regardless of the perimeter used; 5) Hands-on experience view of performing assessments with the Octopus 900 Pro using both Octopus and Humphrey-style static testing as well as Octopus Goldmann Kinetic testing. Handouts and worksheets will also be provided.

Financial interest disclosed

Advanced IOL Master (11SU56W)
Connie McKeehen, CCOA, Vancouver, WA
Ryan Bortz, COA, Tempe, AZ
Tracy Morales, COT, Auburn, MA
Nakeya Pewitt, COA, Canton, MI
Sunday, 12:40 pm-2:40 pm  Credits: 2 A IJCAHPO, AOC-NC

Prerequisite: Basic understanding of the IOL Master.
Description: This lab will be an advanced course on optical coherence biometry. It will cover the operation of the IOL Master for measuring axial lengths, Ks, ACD and white-to-white measurements. Database management and optimization of lens constants will also be discussed. A hands-on lab will be offered following the lecture. Zeiss equipment will be used.

Financial interest disclosed

Advanced Slit Lamp Examination Techniques
Dominic Jacobs, MA, COA, OSA, CCRC, Burnsville, MN
Refer to Day-at-a-Glance for course times  Credits: 2 A IJCAHPO, AOC-NC

Prerequisite: Experience with the use of a slit lamp is recommended.
Description: This lab will describe, discuss and practice the uses of sclerotic scatter, direct and indirect focal illumination, specular reflection and narrow vs. widebeam illumination. The use of the slit lamp in contact lens evaluation, including fluorescein techniques, will also be presented.

Ocular Motility: Approaching Patient Examinations (10SU4W)
Aaron Shukla, PhD, COMT, Saint Paul, MN
Sunday, 11:30 am-12:20 pm  Credits: 1 A IJCAHPO, AOC-C

Prerequisite: Previous attendance at Ocular Motility Basic and Intermediate Learning Labs.
Description: This lab includes discussion and demonstrations for approaching patient examinations for common and uncommon ocular motility problems. Participants will have the opportunity to learn to identify fusion problems, alternating and intermittent tropias, dissociated vertical deviations and to use hand-held and phoropter-mounted instruments to measure deviations.
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Located in the Grand Suite 3 (EAST TOWER)

All attendees receive a ticket for door prizes. Turn in your ticket at the Bookstore for a chance to win!

Proceeds from the bookstore provide JCAHPO Education and Research Foundation scholarships.

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Visit the IJCAHPO booth #1505 at the AAO convention for more information and special event pricing!
A complete list of courses, including the course objectives and approved continuing education credits can be found on our website at www.opsweb.org. Courses include lectures, workshops, and conferences by ophthalmic professionals. There are new courses in all aspects of ophthalmic imaging, as well as the core curriculum of basic and advanced topics. **Courses have been approved for OPS & IJCAHPO continuing education credits.**

### FRIDAY, OCTOBER 26
- Basics of Digital Imaging*
- Hi-Tech Spanish for Photographers
- Vascular Occlusions: Pathophysiology, Pathology, & Current Treatments*
- Ophthalmic Imaging Crash Course
- Transition from Digital to SLO*
- Tele-Ophthalmology: A Tool for Implementing Population Health in the US*
- Swept Source OCT: There and Back Again*
- Using Smart Phones for Imaging*
- Correlation/Discrepancy between FA & OCT
- Introduction to OCT-A
- CRA Prep: Anatomy of the Fundus with UWF
- Anterior Segment Fluorescein and ICG Angiography: Technique, Application and Beauty
- A Dive Into the Deep Blue: Blue Light & Its Effects on Ocular Health
- CRA Portfolio Preparation
- OCT: Scanning for Surgical Significance
- Clinical Trial Imaging*
- OCT-C Portfolio Preparation
- Introduction to Fundus Autofluorescence Imaging
- Optical Coherence Tomography Angiography (OCT-A) in Ocular Oncology
- Scientific Paper Session
- Award Presentations

### SATURDAY, OCTOBER 27
- Ultra Wide Field Imaging: Seeing Into the Far Periphery (Lecture & Workshop)
- Scanning Laser Ophthalmoscopy Imaging*
- OCT-A
- Slit Lamp Photography (Lecture & Workshop)
- OCT-A Practical Techniques (Lecture & Workshop)
- The Role of Microperimetry in Assessing Visual Function (Lecture & Workshop)
- Three Years of OCT Angiography: What We’ve Learned Systemic Diseases & Retinal Findings*
- Vendor Forum
- Standard Techniques of Gonioscopy (Lecture & Workshop)
- Advanced SD-OCT Techniques (Lecture & Workshop)
- Embryology of the Eye
- OCT-A Breakout Session
- Corneal Imaging Double Header*
- An Amazing Kaleidoscope of Fascinating Eye Facts*
- Jamie Nicholl Symposium: Controversies in Ophth. Photog
- J. Donald Gass, MD Memorial Lecture – Patients That Scared My Socks Off (and Then Taught Us All Something)*

### SUNDAY, OCTOBER 28
- Intro to Fluorescein Angiography (Lecture & Workshop)
- Clinical Applications of Anterior Segment OCT (Lect & WS)

**49th Annual Education Program**

October 26-29, 2018

InterContinental Chicago Hotel

Chicago, Illinois

www.opsweb.org

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- Ultrasound Biomicroscopy Overview*
- Ultrasound Special Examination Techniques & Standardized A-Scan*
- Descriptive B-scan Interpretation: Common Globe Pathology and Differentiation of Findings
- Optical Coherence Tomography*
- Imaging to Monitor Response to Treatment: Case Studies & Techniques from a Cornea Specialty Practice*
- Application of Descriptive Interpretation of FA Testing for Premium IOLs with OCT and Topography*
- Descriptive Interpretation of Fluorescein Conference Clinical and O.R. Pediatric Ophthalmic Imaging
- External Photography
- Image Archive and Data Systems for Ophthalmology*
- Rare Case Symposium
- Best of the Best

* New Course

**COMPLETE PROGRAM AND REGISTRATION INFORMATION MAY BE OBTAINED BY CALLING THE OPS OFFICE AT 1-800-403-1677, ON THE WEB SITE: WWW.OPSWEB.ORG, OR BY E-MAIL: OPS@OPSWEB.ORG. ALL COURSES AND WORKSHOPS ARE SUBJECT TO CHANGE.**
To secure housing and see details, go to www.aao.org/hotels. Housing for Allied Ophthalmic Personnel opens on June 27, 2018.
## Joint Meeting Hotels

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<td></td>
<td></td>
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<td></td>
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<td>2.9 miles</td>
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<tr>
<td>41 Renaissance Chicago Downtown Hotel</td>
<td>$307</td>
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<tr>
<td>42 Residence Inn Chicago Magnificent Mile</td>
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<td></td>
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<td>3.7 miles</td>
</tr>
<tr>
<td>43 Ritz-Carlton Chicago</td>
<td>$409</td>
<td>$495</td>
<td></td>
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</tr>
<tr>
<td>44 Sheraton Grand Chicago</td>
<td>$299</td>
<td>$308</td>
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<tr>
<td>45 Silversmith Hotel Chicago Downtown</td>
<td>$207</td>
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<tr>
<td>46 Sofitel Chicago Water Tower</td>
<td>$277</td>
<td>$371</td>
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<tr>
<td>47 St. Jane Chicago — formerly Hard Rock</td>
<td>$289</td>
<td>$389</td>
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<tr>
<td>48 Swissôtel Chicago</td>
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<td>2.6 miles</td>
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<tr>
<td>49 Trump International Hotel &amp; Tower Chicago</td>
<td>$410</td>
<td>$710</td>
<td></td>
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<tr>
<td>50 Virgin Hotels Chicago</td>
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</tr>
<tr>
<td>51 W Chicago City Center</td>
<td>$299</td>
<td>$537</td>
<td></td>
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<tr>
<td>52 W Chicago Lakeshore</td>
<td>$299</td>
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<tr>
<td>53 Warwick Allerton Hotel Chicago</td>
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<tr>
<td>54 Westin Chicago River North</td>
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<td>55 Westin Michigan Avenue Chicago</td>
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</table>

*Hotel rates are subject to change. Tax is currently 17.4%; subject to change. Hotel room rates include an $8 fee to partially defray shuttle costs.*
Hyatt Regency Chicago
151 E Upper Wacker Dr,
Chicago, IL 60601

GRAND BALLROOM LEVEL
(East Tower)
1. Faculty Lounge . . . . . Grand Suite 2A
2. IJCAHPO Bookstore . . . Grand Suite 3
3. IJCAHPO Courses . . . . Grand Ballrooms A - F, Columbus CD, IJ, KL
4. Stein Lecture . . . . . Grand Ballroom EF
5. IJCAHPO Exhibits . . . . Grand Ballroom Foyer
7. Registration . . . . . Grand Ballroom Registration Desk
8. Speaker Ready Room . . . . . Grand Suite 4

CONCOURSE LEVEL
(West Tower)
9. Past President’s Breakfast . . . . . . Soldier Field
10. Scientific Sessions/Grand Rounds. . . . . . Water Tower
11. Super Tech . . . . . . . . . . Comiskey
12. Train the Trainer . . . . . Gold Coast

CLSA
13. Contact Lens Symposium . . . . . . Columbian

SKYWAY LEVEL (East Tower)
14. Hotel Front Desk
On our 70th anniversary, we would like to thank and honor the healthcare professionals around the globe who have partnered with Allergan in caring for patients.

Seventy years ago, Gavin S. Herbert, Sr, and his son, Gavin Herbert, Jr, brought Allergan to life with a droplet and a dream in a small laboratory above their Los Angeles drugstore. Seeing the potential to bring novel medications to patients around the world, Gavin Jr provided the leadership for Allergan to become a leading global eye care company. Their lifelong commitment to advancing eye care and improving the lives of patients remains at the heart of our organization.

Over the last 70 years, Allergan has discovered, developed, and delivered some of the most innovative products in the industry. Allergan has launched 125 eye care products and invested billions of dollars in new treatments for the most prevalent eye conditions including glaucoma, ocular surface disease, and retinal diseases such as diabetic macular edema and retinal vein occlusion. Our eye care pipeline includes 12 additional agents for multiple ocular conditions.

Our commitment to the well-being of patients is also reflected in philanthropy. Allergan and The Allergan Foundation support more than 150 organizations around the world working to improve lives and communities.

Allergan contributes significantly to the eye care community. We work closely with eye care clinicians, research leaders, and managed care organizations to stay abreast of their needs. We provide support for continuing education programs and academic institutions, as well as for recent graduates. For patients, we offer a variety of patient savings and assistance programs to ensure greater access to Allergan medications.

As a leader in eye care, we remain committed to helping eye care providers deliver the best in patient care through innovative products and outreach programs. Thank you, again, to the many healthcare professionals who have trusted Allergan for excellence in patient care. We look forward to working with you on this important mission for many years to come.
SAVE THE DATE!

OCT. 11-13, 2019
ACE
SAN FRANCISCO
HILTON SAN FRANCISCO
UNION SQUARE

www.jcahpo.org/ACE

**Refractive Solutions**

Marco Refraction Systems – Advanced automated instrumentation includes the OPD-Scan III Integrated Wavefront Aberrometer, the TRS-3100/TRS-5100 and EPIC Digital Refraction Workstation, Autorefractors/Keratometers (with VA measurement, Subjective Sphere Refinement, Tonometry, Glare testing on certain models) and Lensmeters – all with EMR integration. And introducing ion IMAGING System – a highly sophisticated slit lamp integrated anterior segment imaging system that emphasizes image quality, simplicity and efficiency.

The Difference is Marco.