Allergan TechAlliance provides a wealth of resources to help technicians do what they do best—even better. As a member of TechAlliance, technicians and staff gain access to the following:

- Patient rebates and coupons
- Patient counseling tools
- Office training and patient education videos
- Educational treatment and disease management programs
- Managed care and pharmacy callback tutorials

Join the Alliance—visit AllerganTechAlliance.com today!

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Welcome to San Francisco

Join us Friday through Sunday, October 11-13, 2019, 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 and welcome you to join us at the 47th Annual Continuing Education (ACE) Program for Allied Ophthalmic Personnel (AOP). We are excited to return to beautiful San Francisco in October for what promises to be our best and most memorable event yet!

1969-2019 spans 50 years marking IJCAHPO’s Anniversary since our founding. Currently, over 27,000 AOP are IJCAHPO certified and over these past 50 years, many more have proudly earned this important credential. Please join us in celebrating this milestone year.

This year’s 3-in-1 CE program is designed for all AOP—from those who are beginning to explore their career, to those who are seasoned professionals. The 3-day program by leading experts includes: didactic sessions, thought-provoking panels, Learning Labs, round tables, free educational resources, receptions and fun networking events. Get ready to inspire and be inspired!

You will not want to miss:

• NEW—IJCAHPO Capstone and Live Stream series on Friday, October 11, presented by leading-edge faculty on ophthalmology’s outlook. A variety of topics include: Lean Techniques, tele-ophthalmology, Artificial Intelligence (AI), and state-of-the-art ophthalmology treatments and technologies in retina, glaucoma, pediatrics and more!

• IJCAHPO’s Harold A. Stein, MD Lecture will feature Smithsonian Ingenuity Award Winners, Jean Bennett, MD, PhD and Albert Maguire, MD. The award honors these scientists who used gene therapy to cure a form of heritable blindness. All conference attendees are invited to attend.

• ATPO and IJCAHPO’s Past President Kenneth E. Woodworth, Jr., COMT, COE, (F)ATPO, FASOA, will present the ATPO Keynote Address.

• CLSA advancements in contact lenses will be presented at its day-long program.

• ATPO will host a signing of the Train The Trainer book in the IJCAHPO Resource Center.

• New Learning Labs, Advanced and Master Classes, including free educational resources.

We hope you will take advantage of every opportunity to expand your knowledge by attending a variety of sessions, networking opportunities with the field’s leading professionals and reinvigorating your career, while earning your continuing education hours. Thank you to faculty and volunteers who make these programs a success.

Watch your mail!
Name Badges and Tickets will be sent to registrants in advance of the program.

Future ACE Dates/Locations
2020
November 13-15
Las Vegas
2021
November 12-14
New Orleans
2022
September 30-October 2
Chicago
Congratulations to the International Joint Commission on Allied Health Personnel in Ophthalmology (IJCAHPO) for 50 Years of Leadership and Commitment to Global Eye Health and Preventing Blindness.

James C. Tsai, MD
President, New York Eye and Ear Infirmary of Mount Sinai
President-Elect, IJCAHPO

50 Years Ago...

Neil Armstrong, ASTRONAUT AND AMERICAN HERO, set foot on the moon. "That’s one SMALL STEP FOR MAN; one giant leap for mankind."

LEADERS in six organizations
"Took one small step for OPTHALMOLOGY; one GIANT LEAP FOR PATIENT CARE."

In 1969, JCAHPO—now “IJCAHPO” was founded for the CERTIFICATION AND EDUCATION of Allied Ophthalmic Personnel.

Join us in celebrating as we LEAP into the Future!
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IJCAHPO’s 47th ACE Program
Planning Committee
Michael Stewart, MD—Chair
Richard Allen, MD, PhD
Brian Forbes, MD, PhD
Karl Golnik, MD, MEd
Suzanne Hansen, MEd, COMT, OSC
Christine McDonald, COA, ROUB, OSC, COE
William Mieler, MD
Elizabeth Palkovacs, MD, FRCSC

ATPO’s 34th Annual
Scientific Session Committee
Matthew Parker, PhD, LSSMBB, PMP, CTC, COMT, CST—Chair
Jessica Barr, COMT, ROUB
Sergina Flaherty, COMT, OSC, CTC, (F)ATPO
Sarah Gill, COT, OSC
Amy Jost, BS, COMT, CCRC, CTC
Stephani Lykins, COMT, CTC
Christine McDonald, COA, ROUB, OSC, COE
Jacqueline Pullos, COMT, OSC, CTC
Lisa Rovick, MHSc, COMT, CO, (F)ATPO
Nicole Smith, COT

2019 ACE Faculty Awards
IJCAHPO would like to congratulate and thank the following instructors for their dedication and participation.

40 Years
• Kenneth Woodworth, Jr., COMT, COE
• David Norath, COT
• Melvin Freeman, MD, FACS

35 Years
• Natalie Loyacano, COMT, OSA
• Matthew Parker, PhD, LSSMBB
• Lisa Rovick, MHSc, COMT

25 Years
• Denise Barsness, COMT, ROUB
• William Ehlers, MD
• Charles Sionim, MD

15 Years
• Denice Hatsis, RN, BSN
• Aljoeson Walker, MD
• Jonathan Rubenstein, MD
• Bruce Bailey, COT
• Thomasine Gorry, MD
• Donald Hudak, MD
• Deborah Jacobs, MD
• Francis Mah, MD
• Tanya McClendon, COA, ROUB
• Elizabeth Palkovacs, MD, FRCSC
• Michelle Pineda, MBA
• Jonathon Rubenstein, MD
• Brandy Lorek, BS, ROUB
• Jasmin Alajed, MD

10 Years
• James Gilman, CRA, FOPS
• Gus Kohn, COT, ROUB
• Atul Khurana, COT, ROUB
• Dinesh Pandey, MD
• John Shepherd, MD

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

Program Site
IJCAHPO: Courses for Allied Ophthalmic Personnel (AOP) will be held at the:
- Hilton Union Square, 333 O’Farrell Street, San Francisco, CA 94102, 415-771-1400
- Parc 55, 55 Cyril Magnin Street, San Francisco, CA 94102, 415-392-8000

ATPO and CLSA: Courses will be held at the:
- Parc 55, 55 Cyril Magnin Street, San Francisco, CA 94102
Parc 55 is located across the street from the Hilton Union Square.

IJCAHPO Friday Education Program
Friday’s educational program has a NEW look with 3 options for registering:
A. Capstone Lectures
B. Other Tracks and Labs (No Capstone)
C. LIVE STREAM of Capstone Lectures*
*Live Stream will have a quiz that registered attendees will need to complete for CE Credit.

Register early to secure your preferred program option!

IJCAHPO Resource Center (Bookstore)
Imperial Ballroom—IJCAHPO sells the most popular products and books on-site. On-site Resource Center orders (US and Canada only) receive FREE SHIPPING. International orders will be charged for shipping. All orders will be shipped to you following the conference.

Resource Center Hours
Imperial Ballroom at the Hilton Union Square
- Saturday October 12 6:30 am-5:00 pm
- Sunday October 13 6:30 am-4:30 pm

IJCAHPO Certification Booth
The IJCAHPO Certification booth will be located in the Imperial Ballroom and open during Resource Center hours.

Contact Lens Society of America
We are excited to offer the 3rd Annual Contact Lens Symposium in collaboration with the Contact Lens Society of America. Registration for the Contact Lens Symposium (Saturday, October 12) is listed on page 8 of the Registration Form. See page 30 for information.

On-Site Registration Hours
IJCAHPO/Capstone, Lectures and Labs
Limited Attendee Registration for Friday Only
Stockton Room at the Parc 55
- Friday October 11 6:30 am-4:00 pm
  (Includes Limited Attendee Registration and Lecture Faculty Check-In)

Union Square Foyer at the Hilton Union Square
- Friday October 11 6:30 am-4:00 pm
  (Includes Limited Attendee Registration and Learning Lab Faculty Check-In)

IJCAHPO/CLSA
Imperial Ballroom at the Hilton Union Square
- Saturday October 12 6:30 am-5:00 pm
- Sunday October 13 6:30 am-4:30 pm
  (Includes IJCAHPO and CLSA Faculty Check-In)

ATPO
Stockton Room at the Parc 55
- Friday October 11 6:30 am-4:00 pm
  *(Includes Limited Attendee Registration and ATPO Faculty Check-In)

ACE Mobile App Available July 1
Don’t miss out! Stay informed with access to all of the latest ACE 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
- Access IJCAHPO’s Facebook and LinkedIn pages
- Sponsor Listings

Note: WIFI access not provided by IJCAHPO.

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

Name Badges and Tickets Will Be MAILED This Year!
- Registrations received on or before September 20, will be mailed via USPS.
- Registration changes can be made online or by contacting IJCAHPO until September 20. Changes after September 20 must be done on-site.
- All registrations received after September 20 will be available for pick up on-site.
- All international registrants (excluding Canada) will pick up name badges and tickets on-site.
- Tote bags and materials will be available in the Imperial Ballroom on Saturday and Sunday during registration hours.
- If you lose, forget or misplace your tickets and/or name badges the fee to reprint is $20.
General Information

The City of San Francisco
Visit www.sftravel.com for local information, restaurants and entertainment.

Accommodations
Hotel reservations must be made through the AAO Housing Bureau. Housing opened on June 12, to Academy and AAOE members and on June 26, to Allied Ophthalmic Personnel. Visit www.aao.org for more information.

Parking
Hilton Union Square: Self and valet parking (daily and overnight) is available for a fee. Parc 55: Valet parking ONLY for a fee.

Additional Parking Information—www.spotangels.com/san-francisco/downtown-parking

AAO Shuttle Service
Shuttle service is provided for meeting attendees during meeting hours beginning Saturday, October 12 through Tuesday, October 15. All shuttles stop at Moscone Center where attendees can transfer to the Hilton Union Square and the Parc 55 hotel routes. If you plan to use the AAO shuttle service, allow PLENTY of time for travel—the shuttle buses stop at several hotels in addition to the transfer at Moscone Center, which is 1 mile from the Hilton Union Square and Parc 55 hotels. Attendees staying downtown may consider public transportation, ride share services or taxis to save time. There is very limited shuttle service on Friday, October 11.

Airport Transportation
www.airportshuttles.com/sanfrancisco.php

Visit IJCAHPO in West, Booth 7616 at the AAO Exhibition—Moscone Center.

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

Ride Share Lyft and Uber Instructions—
www.rideshareconnection.com/passengers-guide-uber-lyft-pickups-drop-offs-sfo

Bay Area Rapid Transit—BART provides three to four trains per hour departing from the SFO International Terminal. It is approximately 30 minutes to downtown San Francisco. For more information visit: www.bart.gov

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 hotels.

IJCAHPO Exhibitors at Hilton Union Square
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 Continental Ballroom Foyer (East Lounge).

AAO Exhibition Hours—Moscone Center
American Academy of Ophthalmology: The exhibit hall and courses for the physicians will be located at the:
- Moscone Center, 747 Howard Street, San Francisco
- There will be three exhibit halls, North, South and West in the corresponding buildings
- Attendees may purchase an AAO exhibit hall pass at a reduced fee of $150 through IJCAHPO, which is good for the entire 4 days of the exhibition.

Saturday, October 12 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ...
Registration Information

Registration Deadlines
Registration fees increase after September 12—save money during Early Registration. Registration form and payment must be received (not postmarked) on or before the deadline to qualify for the respective registration fees.

- **September 12** . . . . . . . . Early Registration Closes
- **September 13** . . . . . . . . Registration Price Increase
- **September 20** . . . . . . . . Changes/Cancellations/Refunds Deadline

**October 11** . . . . . . . . . Registration Price Increase
*Online registration still open*

**October 11** . . . . . . . . . On-Site Registration at the Hilton Union Square

Register Online, by Fax, or Mail
On-site registration fees are significantly higher and Learning Labs sell out fast. To reduce the risk of not getting your first choice of classes, be sure to pre-register on or before September 20.

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

**Preferred Registration Method—Online Registration**
at www.jcahpo.org/ACE and click on REGISTER.

**Fax** your registration form, course selections and payment to:
IJCAHPO/ACE Registration
2025 Woodlane Drive
St. Paul, MN 55125

**Mail** your registration form, course selections and payment to:
IJCAHPO/ACE Registration
2025 Woodlane Drive
St. Paul, MN 55125

*Faxed or mailed registrations will be assessed a $50 processing fee.

Registration Confirmations, Name Badges and Tickets
Registrants will receive an email confirmation at their preferred email address, within 10 days of registering. If you have not received a confirmation within this time frame, call IJCAHPO at 800-284-3937 or email registrations@jcahpo.org.

**ATTENTION—Name Badges and Tickets Will Be MAILED to You**
Name badges and tickets will be mailed to the home address listed on the registration form via USPS if you registered on or before September 20, and live in Canada or the US.*

If no home address is listed, the work address will apply. Carefully review your name badge and tickets when you receive them. If a course was sold out at the time you registered, it will NOT appear in your tickets.

All attendees who register after September 20 will need to pick up tickets on-site at the registration desk (see page 4).

*International registrants (excluding Canada) will pick up tickets/name badges on-site.

Photography Release
By attending the IJCAHPO/ATPO/CLSA 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.

Registration Changes
Changes to your initial registration may be made online on or before September 20, and on-site in San Francisco, October 11-13. You may add or delete course selections of equal value by logging into your account at www.jcahpo.org/ACE.

Changes involving a financial transaction must be received in writing at the IJCAHPO office on or before September 20, or handled by an IJCAHPO staff member in San Francisco, October 11-13. 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 September 20 cancellation deadline.

Cancellations and Refunds
- Cancellations must be received in writing. If your registration is cancelled on or before September 20, the amount will be refunded less a processing fee of $100.
- If you become certified prior to the program, and initially paid the non-certified registration fee, you may request an appropriate refund on or before September 20. No refunds will be offered for changes after September 20.
- ATPO and CLSA memberships are non-transferable and non-refundable.

Group Discounts Available
When two or more people from the same office register for the 3-Day Package, only one person pays the regular fee. The additional registrants receive a $25 discount for each additional 3-Day Package registration. The name of the person paying the non-discounted fee must be written on the registration form under “Group Discount” for verification. Group discounts must be requested when completing the registration form—no retroactive discounts will be granted. Group discounts apply to the IJCAHPO 3-Day Package only. This discount is NOT available for ATPO and CLSA.

If you are registering as a group and do not see an account for your certified technician, to assure you receive correct pricing, please contact IJCAHPO before creating a new account. To avoid potential complications, for groups of 7 or more attendees, please contact our administrative department at 651-731-2944, option 1.

Military and Veterans Registration
A special discounted registration fee is offered for Military Personnel and Veterans from the US and Canada. Military and Veterans Packages are discounted until October 11, when the price increases to the on-site fee.

The IJCAHPO Military Package includes: Saturday, Sunday and Friday’s Live Stream of the Capstone Lectures. IJCAHPO Learning Labs are an additional fee. No other course combinations will be accepted. All other IJCAHPO policies apply.

Registrants must mail or fax their registration and payment with proof of military status. The $50 processing fee will be waived. Online registrations cannot be processed.

**NOTE:** Falsification or misrepresentation of credentials, employment, personal information and/or military service may result in the loss of CE credits or certification.
REGISTRANT INFORMATION
Please list the credentials you want to appear on your name badge (limit two)

Date of Birth (mm/dd/yy) / / 

Name ☐ Ms. ☐ Mrs. ☐ Mr. ( )

First ☐ M.I. ☐ Last ☐ Former name, if applicable

Home Address
City Province/State Zip Country

Preferred Telephone - - Preferred Email Address

IN CASE OF EMERGENCY, PLEASE NOTIFY

Name Telephone Number

Which category best describes your professional activities? (Check all that apply)
☐ Administration/Management ☐ Contact Lenses ☐ Nursing ☐ Scribe
☐ Clinical Research ☐ Front Office ☐ Ophthalmic Photography ☐ Student (Program Director):
☐ Clinical/Diagnostic Testing ☐ Laser Technology ☐ Optical ☐ Surgical Assisting
☐ Coding Specialist ☐ Low Vision ☐ Orthoptics ☐ Surgical Coordinator ☐ Other _________________________

Number of years worked in ophthalmology: Number of years with current employer:

EMPLOYER INFORMATION

Name of Practice

Business Address
City Province/State Zip Country

Business Telephone - - Ext. Fax Number - -

Employer's Practice Emphasis (Check all that apply)
☐ Cataract and IOL ☐ Glaucoma ☐ Ophthalmic Pathology ☐ Refractive Surgery
☐ Comprehensive Ophthalmology ☐ Low Vision ☐ Optical Dispensing ☐ Retina and Vitreous Disease
☐ Contact Lens ☐ Neuro-Ophthalmology ☐ Pediatric Ophthalmology/Strabismus ☐ Other _________________________
☐ Cornea and External Disease ☐ Oculoplastic/Reconstructive Surgery

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.

Card # Expiration Date / Security Code

Payer's Name (Please PRINT)

Payer's Billing Address
City Province/State Zip Country

Authorized Signature X

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.

Special accommodations: ICAHPO provides reasonable and appropriate accommodations to individuals with documented disabilities who demonstrate a need for special accommodations. Specific special accommodations should be related to functional limitations. Please include additional supporting documentation from the medical professional who diagnosed the condition. It is essential that the documentation of the disability provide a clear explanation of the current functional limitation(s) and a rationale for the requested accommodation. For more information contact us at 800-284-3937.

Please indicate registration selections on reverse side.

Please register online and SAVE the $50 processing fee: www.jcahpo.org/ACE
# Registration Form

**Registration**

<table>
<thead>
<tr>
<th>Name ID#</th>
<th>IJCAHPO</th>
<th>Amount</th>
</tr>
</thead>
</table>

**Group Discount** available when registering 2 or more from the same clinic for a 3-Day Package. See page 6 for details.

Discount must be requested at this time—no retroactive discounts will be granted.

Name of registrant with the non-discounted fee:

<table>
<thead>
<tr>
<th>Group Discount available when registering 2 or more from the same</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>IJCAHPO Amount</td>
<td>$350</td>
</tr>
<tr>
<td>Group Discount available when registering 2 or more from the same clinic for a 3-Day Package</td>
<td>$450</td>
</tr>
<tr>
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<td>$500</td>
</tr>
<tr>
<td>Group Discount available when registering 2 or more from the same clinic for a 3-Day Package</td>
<td>$475</td>
</tr>
<tr>
<td></td>
<td>$555</td>
</tr>
<tr>
<td>Group Discount available when registering 2 or more from the same clinic for a 3-Day Package</td>
<td>$600</td>
</tr>
</tbody>
</table>

**3-Day Package (Friday, Saturday and Sunday)**

Check ONE for your Friday option:

- A. Capstone Lectures
- B. Other Tracks and Labs (No Capstone) List courses below.
- C. Live Stream of Capstone Lectures

<table>
<thead>
<tr>
<th>Name ID#</th>
<th>IJCAHPO</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>$220</td>
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<td>$330</td>
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<td></td>
<td>$400</td>
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</tbody>
</table>

**1-Day Package (Saturday or Sunday)**

List course codes below. Check ONE:

- CA: $220
- SU: $290
- EO: $360
- RO: $260
- ROU: $330
- ROUB: $400

<table>
<thead>
<tr>
<th>Name ID#</th>
<th>IJCAHPO</th>
<th>Amount</th>
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<td></td>
<td>$425</td>
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</tbody>
</table>

**Military and Veteran Package** (Any lectures Saturday and Sunday, plus Live Stream on Friday)

List course codes below.

<table>
<thead>
<tr>
<th>Name ID#</th>
<th>IJCAHPO</th>
<th>Amount</th>
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<tbody>
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<th>Name ID#</th>
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**Learning Labs** Sold only in conjunction with packages above. You MUST register below for the required prerequisite lecture if one is listed.

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**Scientific Session + Grand Rounds (Saturday & Sunday)**

Includes: Lunch, refreshment breaks both days, and “Who Wants to Be a Super Tech?” on Saturday.

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**Scientific Session + Grand Rounds (Saturday & Sunday)**

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**Military and Veteran Scientific Session + Grand Rounds (Saturday & Sunday)**

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**Friday (KEY—Price$/Course Start Time)**

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**Train The Trainer**

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**Super Tech Program and Reception (Sat. 4:45-6:15 pm)**

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**Join or renew your ATPO membership and receive member pricing.**

- New
- Renewing
- $75/1 year
- $175/3 years

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**Join or renew your CLSA membership and receive member pricing.**

- New
- Renewing

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**Full-Day Package (Saturday)**

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**Member Package (Saturday)**

Includes: IJCAHPO Friday Live Stream and Sunday courses.

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**Register Online and SAVE $50!**

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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)
Online Prerequisites and CE Credits

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.

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 San Francisco.

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 1. Upon completion of each course and 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.

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<th>Learning Labs—Offered On-Site</th>
<th>Prerequisite, Introductory Courses—Offered Online</th>
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<tr>
<td>Tonometry</td>
<td>Introduction to Tonometry</td>
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<tr>
<td>Ultrasound Biometry (A-Scan)</td>
<td>Introduction to Ultrasound Biometry</td>
</tr>
<tr>
<td>Slit Lamp Microscopy</td>
<td>Introduction to the Use of the Slit Lamp Microscope</td>
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<tr>
<td>Contact B-Scan Ultrasonography</td>
<td>Introduction to Contact B-Scan Ultrasonography</td>
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<td>Introduction to Practical Refraction: Minus Cylinder</td>
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<tr>
<td>Refraction: Plus Cylinder</td>
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<td>UBM</td>
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<tr>
<td>Retinoscopy: Plus and Minus Cylinder</td>
<td>Learning Systems: Retinoscopy and Refined</td>
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<tr>
<td>Corneal Topography with the Pentacam</td>
<td>Introduction to Corneal Topography</td>
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Capstone Lectures: Innovation in Ophthalmology
The Capstone Lectures are a collection of short leading-edge topics that will launch the ACE Program on Friday, October 11, from 8:00 am-3:50 pm. This day-long event will also be featured via LIVE STREAM, which can be registered for with the 3-Day Package (Friday-Sunday).

Registered LIVE STREAM attendees will need to complete a quiz to receive credit for these CE hours.

Sub-Specialty Sessions
Sub-Specialty sessions offered are:
- **NEW! Imaging (12SA23)**, Saturday, 9:10 am-11:10 am
- **Practice Management (12SA45)**, Saturday, 11:30 am-1:30 pm
- **NEW! Ultrasound (12SA67)**, Saturday, 1:50 pm-3:50 pm
- **Retina (12SU12)**, Sunday, 8:00 am-10:00 am
- **NEW! Oculoplastics (12SU34)**, Sunday, 10:20 am-12:20 pm
- **Scribing (12SU56)**, Sunday, 12:40 pm-2:40 pm

See the Day-at-a-Glance pages and page 55-56 for details.

Continuing Education (CE) Credit*
CE credits awarded are listed in the Course Descriptions section starting on page 38. 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)
- California Board of Registered Nursing (CABRN)
- Ophthalmic Photographers’ Society: (OPS 1:1), (OPS 1:2)

**ATPO Program**—Please refer to pages 21-26 for information on CE credits awarded by IJCAHPO.

**CLSA Program**—Please refer to pages 29-30 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, 2020.

If you are planning to have your employer reimburse your fees, please be sure that they are aware of the credit processing time of 8 to 10 weeks. We are unable to provide attendance verification before credits are posted.
50 Years.
25 Leaders.
1 Mission.

IJCAHPO Presidents
1969-2019

To promote global eye health and prevent blindness through training program accreditation, education and the certification of Allied Ophthalmic Personnel.
Welcome to the 47th Annual Continuing Education Program in San Francisco

PROGRAM HIGHLIGHTS:

• Jean Bennett, MD, PhD and Albert Maguire, MD are the featured keynote speakers to jointly deliver the 17th Annual Harold A. Stein, MD Lecture on “Seeing the Light with Retinal Gene Therapy: From Fantasy to Reality.”

• CAPSTONE AND LIVE STREAM EVENTS are Friday, Oct 11, a 1-day event with 14 speakers bringing updates on the newest “Innovations in Ophthalmology.”

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

• 214 COURSES featuring:
  • 54 NEW LECTURES
  • 14 MASTER LEVEL courses for the more experienced eye care team members
  • 27 ADVANCED level courses
  • 75 INTERMEDIATE level courses
  • 25 BASIC level courses
  • 74 LEARNING LABS for skill-based, hands-on training
  • 12 NEW HIRE COURSES in one convenient track

• Allergan TechAlliance Presentation and Interactive Discussion by experts on clinical options and the role of today’s ophthalmic technicians in eye care.

www.jcahpo.org/ACE
The Harold A. Stein, MD Lecture will be presented by Jean Bennett, MD, PhD, and Albert Maguire, MD, recipients of the Smithsonian Ingenuity Award. Drs. Bennett and Maguire will describe the path they took in moving exciting laboratory research findings into a treatment for individuals with an inherited form of congenital blindness. This path led to development of the first FDA-approved gene therapy product in the US and Europe and the first approved gene therapy for a blinding inherited retinal disease worldwide, that previously had no pharmacologic treatment options. The results have changed medical practice and provide hope to many individuals suffering from inherited forms of blindness. “It serves as a stepping stone to more prevalent diseases,” Maguire said.

Drs. Bennett and Maguire have established a true “from bench to bedside” program involving gene-based treatment strategies. Their team achieved many “firsts” including completion of the first randomized, controlled, multi-center Phase 3 gene therapy trial targeting a genetic disease.

The FDA approval is a culmination of over 25 years of studies on congenital blindness by the married-couple team Bennett and Maguire, who started this pioneering research in mice and dogs. Recommended therapy use by the FDA in patients ages 12 months and older, the one-time therapy corrects the deficits resulting from mutations in the gene RPE65, which is responsible for producing proteins that make light receptors work in the retina and vision possible. A patient’s vision can begin to improve within weeks. Today, there are an estimated 1,000-2,000 patients in the United States with RPE65 mutations.

Dr. Jean Bennett is the F.M. Kirby Professor of Ophthalmology and Professor of Cell and Developmental Biology at the Perelman School of Medicine at the University of Pennsylvania and Penn’s Scheie Eye Institute. Dr. Albert Maguire is a Professor of Ophthalmology at the Perelman School of Medicine, University of Pennsylvania and Penn’s Scheie Eye Institute. He is also the Attending Physician in the Division of Pediatric Ophthalmology at Children’s Hospital of Philadelphia (CHOP) and served as the principal investigator of the clinical trials which led to the FDA approval. Both Bennett and Maguire are graduates of Harvard Medical School. Dr. Maguire completed his residency at The John Hopkins Hospital; and Dr. Bennett completed her PhD at the University of California, Berkeley.

We will learn firsthand the ingredients necessary to deliver a gene to cells in the retina and the importance of identifying appropriate tests for assessing efficacy of an intervention. They will discuss the rigorous process of testing a new drug and moving it through the drug approval process, that is critical to patients and the potential of gene therapy for treating retinal disease.

**“SEEING THE LIGHT WITH RETINAL GENE THERAPY: FROM FANTASY TO REALITY”**

The Harold A. Stein, MD Lecture

This year marks the 17th 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 founding Commissioners of JCAHPO. 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.
Capstone Lectures and LIVE STREAM Event
The Capstone Lectures will be LIVE STREAMED during ACE to registered attendees of the Friday, October 11, event. The LIVE STREAM will be aired from 8:00 am-3:50 pm. LIVE STREAM event registered attendees will need to complete a quiz to receive credit for these 7 CE hours.

Artificial Intelligence in Ophthalmology
Michael Chiang, MD, Portland, OR
Friday, 8:05 am-8:25 am
Description: This session will explore the next transformation in ophthalmology with the application of Artificial Intelligence (AI) in diagnosing and treating disease in clinical practice. Effective for image recognition, AI has enormous potential to change the way ophthalmic diagnosis is performed. AI can be used to detect diabetic retinopathy, retinopathy of prematurity and other eye conditions.

Lean Techniques for the Ophthalmic Practice
James Tsai, MD, MBA, New York, NY
Friday, 8:25 am-8:50 am
Description: This session will explore the methodology of Lean processes and techniques in an ophthalmic practice to increase the value for patients and minimize waste.

The Future of OCT
Joel Schuman, MD, FACS, New York, NY
Friday, 9:00 am-9:25 am
Description: Optical Coherence Tomography (OCT) is a common instrument in today’s ophthalmology practice. But what is the future of OCT? This session will present new OCT innovations, such as visible light OCT for enhanced resolution and oximetry. The discussion will then explore the application of Artificial Intelligence in analyzing highly complex OCT scans and the ability to interpret scans and predict future disease progression.

Tele-Ophthalmology—A Vision for the Future
Sophia Saleem, MD, New York, NY
Friday, 9:25 am-9:50 am
Description: Tele-ophthalmology is becoming more common in ophthalmology practices. This session will cover the benefits of setting up tele-ophthalmology as part of a practice.

Update in Orbital Surgery
Richard Allen, MD, PhD, FACS, Houston, TX
Friday, 10:00 am-10:25 am
Description: The orbit cannot be directly visualized but it can be surgically operated on. This session will discuss surgical techniques to reach this cavity behind the eye. Whether it is reconstructing the bony orbit or removing a space occupying tumor, there are techniques to reach and operate on this unseen part of the eye.

New IOL Technologies
Jack Holladay, MD, MSEE, FACS, Bellaire, TX
Friday, 10:25 am-10:50 am
Description: A glimpse into the future of IOLs will be presented. This session will touch on new, state-of-the-art technologies of intraocular lenses and new surgical treatments available.

Top 10 Tips on Clinic Efficiency
Christine McDonald, COA, ROUB, OSC, COE, St. Louis, MO
Friday, 11:00 am-11:25 am
Description: Time is money. This is more true today than any other time in the ophthalmic practice. This session will discuss tips to help clinics run more efficiently. Innovative ideas about clinic layout, staffing and patient satisfaction to increase efficiency and productivity will be presented.

Guest Speaker to be Announced
Friday, 12:00 pm-12:50 pm

Retinal Surgery Highlights
Michael Stewart, MD, Jacksonville, FL
Friday, 1:00 pm-1:25 pm
Description: This session will review the highlights of retinal surgery in 2019.

Refractive Surgery in Children
William Astle, MD, FRCSC, Dipl. ABO, Calgary, AB Canada
Friday, 1:25 pm-1:50 pm
Description: This session will discuss a portfolio of successful surgical techniques that effectively eliminate refractive errors in children, while promoting successful reversal of amblyopia, as well as restoring vision and fusion in complex pediatric refractive situations, not responding to more standard treatments.

Where is the Future of Cornea Headed?
Bennie Jeng, MD, Baltimore, MD
Friday, 2:00 pm-2:25 pm
Description: This session will highlight significant advancements in medical and surgical cornea. Emphasis will be on how new technologies and new surgical procedures will drive the cornea practice in the future.

Glaucoma: News and Views
Andrew Iwach, MD, San Francisco, CA
Friday, 2:25 pm-2:50 pm
Description: This session will discuss a variety of timely and sometimes controversial topics as they relate to glaucoma, such as cannabinoids. This engaging session will identify the difficult patient questions that AOP may encounter.

Next Generation of Cross-Linking
David Hardten, MD, Minneapolis, MN
Friday, 3:00 pm-3:25 pm
Description: Corneal cross-linking (CXL) has been a significant, innovative advance in the treatment of cornea diseases. As it continues to gain momentum worldwide, new CXL advances and uses continue to emerge. This session will explore alternatives to the currently approved process including accelerated treatment time, the agents used, the role of oxygen and combination treatments.

You Could Die From That!
Karl Golnik, MD, MEd, Blue Ash, OH
Friday, 3:25 pm-3:50 pm
Description: This session will discuss neuro-ophthalmology conditions that, if not diagnosed and treated, could result in death. The focus of this session will be on the technician’s role of identifying these conditions.
### Friday Day-at-a-Glance

1 hour = 1 Group A IJCAHPO credit

**COURSE LEVEL KEY:** B—Basic, I—Intermediate, A—Advanced, M—Masters  
NC= No Charge  
LEARNING LABS: There is an additional fee for Learning Labs  
NEW COURSES

<table>
<thead>
<tr>
<th>Room</th>
<th>Welcome 8:00 am-8:05 am</th>
<th>8:05 am-8:25 am</th>
<th>8:25 am-8:50 am</th>
<th>9:00 am-9:25 am</th>
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<tbody>
<tr>
<td><strong>Capstone Lectures</strong></td>
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| Cypress Magnolia Ballroom (Parc 55) | Welcome to the first Capstone Lectures | IJCAHPO is celebrating our 50th Anniversary with the new Capstone Lectures: Innovations in Ophthalmology. These lectures feature fast-paced, leading-edge topics by experts in the field. The Capstone Lectures will launch the ACE Program on Friday, October 11, from 8:00 am-3:50 pm at Parc 55. **Seats are limited.** Register early; don’t miss this special event. This event will also be available via LIVE STREAM which can be registered for with the 3-Day Package. LIVE STREAM attendees will need to complete a quiz to receive credit for these CE hours. | Artificial Intelligence in Ophthalmology | Michael Chiang, MD  
Oregon Health and Science University  
Portland, OR | Lean Techniques for the Ophthalmic Practice | James Tsai, MD, MBA  
New York Eye and Ear Infirmary of Mount Sinai  
New York, NY | The Future of OCT | Joel Schuman, MD, FACS  
New York University Langone Eye Center  
New York, NY |
|                       |                          |                 |                 |                 |
| Room                  | 8:00 am-8:50 am | 9:10 am-10:00 am | 10:20 am-11:10 am | 12:00 pm-12:50 pm |
| Market Street (Parc 55) | Diet, Nutrition and the Eye (McDonnell) | Getting to the Root of the Matter: Growing Your Ophthalmology Vocabulary (Whinery) | Name That Modifier! (Woodke) | The Ophthalmic Technician’s Critical Role in Medical Quality and Patient Safety (Gorry) |
| Union Square 11       | 21FR23W Learning LAB  
Slit Lamp Microscopy (Grant) | 20FR3W Learning LAB  
Assisting in Intravitreal Injections (Delaney) | 20FR4W Learning LAB  
Exam Skills (Blackburn) | 20FR4W Learning LAB  
Tonometry (Kroneker) |
| Union Square 14       | 22FR23W Learning LAB  
Retinoscopy: Plus Cylinder (Donshik & Norath) | 23FR2W Learning LAB  
Ultrasound Biometry (A-Scan) (Hines) | 23FR3W Learning LAB  
Ultrasound Biometry (A-Scan) (Hernandez) | 23FR4W Learning LAB  
Ultrasound Biometry (A-Scan) (Hernandez) |
| Union Square 15-16    | 24FR23W Learning LAB  
Introduction to the LENSTAR Optical Biometry (Menard) | 25FR23W Learning LAB  
Surgical Assisting (Loyacano) | 25FR3W Learning LAB  
Surgical Assisting (Loyacano) | 25FR4W Learning LAB  
Surgical Assisting (Loyacano) |
| Union Square 17-18    | 26FR23W Learning LAB  
Fundus Photography (Bailey) | 27FR23W Learning LAB  
Fundus Photography (Bailey) | 27FR3W Learning LAB  
Fundus Photography (Bailey) | 27FR4W Learning LAB  
Fundus Photography (Bailey) |
| Union Square 19-20    | 28FR23W Learning LAB  
Fundus Photography (Bailey) | 29FR23W Learning LAB  
Fundus Photography (Bailey) | 29FR3W Learning LAB  
Fundus Photography (Bailey) | 29FR4W Learning LAB  
Fundus Photography (Bailey) |
| Union Square 21       | 30FR23W Learning LAB  
Fundus Photography (Bailey) | 31FR23W Learning LAB  
Fundus Photography (Bailey) | 31FR3W Learning LAB  
Fundus Photography (Bailey) | 31FR4W Learning LAB  
Fundus Photography (Bailey) |
| Union Square 22       | 32FR23W Learning LAB  
Fundus Photography (Bailey) | 33FR23W Learning LAB  
Fundus Photography (Bailey) | 33FR3W Learning LAB  
Fundus Photography (Bailey) | 33FR4W Learning LAB  
Fundus Photography (Bailey) |
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**COURSE LEVEL KEY:** B—Basic, I—Intermediate, A—Advanced, M—Masters  
p=page number (Example: B—p 25 is Basic Level, description on page 25)
### Friday Day-at-a-Glance

#### 10/11/19

<table>
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<tr>
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| **9:25 am-9:50 am** | Union Square 14 | Tele-Ophthalmology – A Vision for the Future  
Sophia Saleem, MD  
New York Eye and Ear Infirmary of Mount Sinai  
New York, NY |
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Richard Allen, MD, PhD, FACS  
Baylor College of Medicine  
Houston, TX |
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Jack Holladay, MD, MSEE, FACS  
Holladay Lasik Institute  
Bellaire, TX |
| **11:00 am-11:25 am** | Union Square 21 | Top 10 Tips on Clinic Efficiency  
Christine McDonald, COA, ROUB, OSC, COE  
Retina Research and Development Foundation  
St. Louis, MO |
| **2:00 pm-2:25 pm** | Union Square 11 | Where is the Future of Cornea Headed?  
Bennie Jeng, MD  
University of Maryland School of Medicine  
Baltimore, MD |
| **2:25 pm-2:50 pm** | Union Square 14 | Glaucoma: News and Views  
Andrew Iwach, MD  
Glaucoma Center of San Francisco  
San Francisco, CA |
| **3:00 pm-3:25 pm** | Union Square 11 | Next Generation of Cross-Linking  
David Hardten, MD  
Minnesota Eye Consultants  
Minneapolis, MN |
| **3:25 pm-3:50 pm** | Union Square 21 | You could Die From That!  
Karl Golnik, MD, MEd  
Cincinnati Eye Institute  
Blue Ash, OH |

#### 2:25 pm-5:00 pm

### 1240 pm-1:30 pm

<table>
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<tr>
<th>Room</th>
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<tbody>
<tr>
<td>Embarcadero</td>
<td>You Saw What? A Curious Compendium of Ocular Oddities (Ehlers)</td>
</tr>
<tr>
<td>Market Street</td>
<td>For the Love of Lensometry (Race)</td>
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<tr>
<td>Union Square</td>
<td>LEARNING LAB Keratometry (Lenig)</td>
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<td>Union Square</td>
<td>LEARNING LAB Advanced Slit Lamp Examination Techniques (Shukla)</td>
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<tr>
<td>Union Square</td>
<td>Retinoscopy: Pus Cylinder (Lichtenstein &amp; Norath)</td>
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<tr>
<td>Union Square</td>
<td>Contact B-Scan Ultrasonography (Simms)</td>
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<tr>
<td>Union Square</td>
<td>Optical Biometry and IOL Calculations (Blackburn)</td>
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<tr>
<td>Union Square</td>
<td>25 Basic courses to choose from!</td>
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#### Embarcadero

**NEW!**

You could Die From That!  
Karl Golnik, MD, MEd  
Cincinnati Eye Institute  
Blue Ash, OH

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Karl Golnik, MD, MEd  
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**NEW TO EYE CARE**

START your journey

**Resource Center**

25 Basic courses to choose from!

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**Saturday Day-at-a-Glance**

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Sunday Day-at-a-Glance

1 hour = 1 Group A IJCAHPO credit

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<tr>
<td>8:00-8:50</td>
<td>Franciscan C</td>
<td>NEW! 15SU12W LEARNING LAB Eye Exam in Spanish: Evaluation of the Non-Bilingual Patient (DeCain)</td>
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<tr>
<td>9:10-10:00</td>
<td>Union 1-2</td>
<td>16SU12W LEARNING LAB Refraction: Plus Cylinder (Farmer &amp; Cooper)</td>
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<td>10:20-11:10</td>
<td>Union 3-4</td>
<td>NEW! 19SU1W I—p 60 LEARNING LAB The View on Scribing (Tello)</td>
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<tr>
<td>11:30-12:20</td>
<td>Union 5-6</td>
<td>NEW! 19SU23W LEARNING LAB Ophthalmic Math (Woodworth)</td>
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<tr>
<td>12:40-1:30</td>
<td>Union 10</td>
<td>NEW! 15SU6W LEARNING LAB OCT-A in a Multi-Modal Imaging Approach with the SPECTRALIS (McHugh)</td>
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<tr>
<td>1:50-2:40</td>
<td>Union 11</td>
<td>NEW! 20SU2W I—p 60 LEARNING LAB Visual Acuity Testing for Preverbal Children (Zhu)</td>
</tr>
<tr>
<td>3:00-3:50</td>
<td>Union 14</td>
<td>NEW! 21SU2W I—p 59 LEARNING LAB Meibography: Learn from the Lids (Hostetter)</td>
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<td>Union 15-16</td>
<td>22SU1W B—p 56 LEARNING LAB Anatomy and Dissection of the Eye (Scribbick)</td>
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<td>Union 17-18</td>
<td>23SUW B—p 60 LEARNING LAB Ultrasound Biometry (A-Scan) (Hines)</td>
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<td>24SU12W LEARNING LAB Ocular Motility: Identifying and Measuring Deviations (Shukla)</td>
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<td>Union 22</td>
<td>26SU34W LEARNING LAB Advanced IOL Master (Emerson)</td>
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<td>15SU34 Empowering Glaucoma Patients to Take Care of Themselves (Newman-Casey)</td>
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<td>15SU5 Identifying and Assisting the Patient with Low Vision (Shepherd)</td>
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<td>NEW! 16SU6W LEARNING LAB OCT-A in a Multi-Modal Imaging Approach with the SPECTRALIS (McHugh)</td>
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<td>NEW! 19SU6W LEARNING LAB Ophthalmic Math (Shukla)</td>
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<td>20SU5W B—p 57 LEARNING LAB Keratometry (Orozco)</td>
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<td>19SU1W I—p 60 LEARNING LAB Visual Acuity Testing for Preverbal Children (Zhu)</td>
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<td>21SU34W I—p 60 LEARNING LAB Slit Lamp Microscopy (Cooper)</td>
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<td>15SU6W B—p 56 LEARNING LAB Anatomy and Dissection of the Eye (Scribbick)</td>
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<td>19SU6W B—p 56 LEARNING LAB Anatomy and Dissection of the Eye (Scribbick)</td>
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<td>22SU7W B—p 56 LEARNING LAB Anatomy and Dissection of the Eye (Scribbick)</td>
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<td>23SU4W B—p 58 LEARNING LAB UBM (Alexander)</td>
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<td>23SU5W B—p 58 LEARNING LAB UBM (Alexander)</td>
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<td>24SU3W I—p 59 LEARNING LAB Ocular Motility: Identifying and Measuring Binocular Function (Shukla)</td>
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<td>24SU4W I—p 61 LEARNING LAB Ocular Motility: Approaching Patient Examinations (Shukla)</td>
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<td>26SU56W LEARNING LAB Fundus Photography (Bailey)</td>
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Welcome to the 34th 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.
ACHIEVING GOALS AT HOME AND WORK: A METAPHORICAL ANALYSIS FOR AOP

Kenneth “Ken” E. Woodworth, Jr., COMT, COE, (F)ATPO, FASOA, will address today’s unique issues facing ophthalmic practices and personnel. He will address processes for setting and achieving goals with his years of experience using interesting stories, metaphors and humor. The session will be flavored with morsels of audience participation.

Ken has been continuously involved in ophthalmology in various capacities since 1971. Ken is a dual-certified ophthalmic medical technologist (COMT) and ophthalmic executive (COE). He has been a member of and chaired the National Board for the Certification of Ophthalmic Executives (NBCOE), and has been an At-Large member on the American Society of Ophthalmic Administrators (ASOA) Governing Board of Directors. Besides ASOA, Ken is a Fellow Member of ATPO and KATPO. He is the recipient of the IJCAHPO Statesmanship Award, the ASOA Pinnacle Award for volunteerism, ATPO’s Special Presidential Award and President’s Award of Recognition, and he is an Eagle Scout. Ken is also an IJCAHPO, ATPO and KATPO Past President. He has given numerous presentations on clinical optics, administrative ophthalmology and AOP issues, and has authored, co-authored and co-edited publications in those areas.

Ken is retired from a 43-year career in a multi-office and multi-provider private ophthalmology practice based out of Lexington, KY. His last position there, spanning about 20 years, was Chief Operating Officer (COO). Currently, he is the owner and senior consultant for Ophthalmic Consulting Services, where he concentrates his efforts on a variety of practice management issues. In his spare time, he likes to do home repairs and yard work, family-related activities, follow his University of Kentucky Wildcats and play golf.

Join Ken and us to have some fun!
<table>
<thead>
<tr>
<th>Time</th>
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| 8:00 am-11:30 am | COT Written Certification Exam Review  
RACE, WILSON  
Credits: 3.25 A IJCAHPO  
Powell (Parc 55)  |
| 1:00 pm-4:00 pm  | COA Written Certification Exam Review  
DAKIN, GRANT  
Credits: 0  
Powell (Parc 55)  |
| 1:50 pm-3:50 pm  | COT Practical Certification Exam Review  
GILL, LAMELL, PIGNONE REED,  
RACE, REED  
Credits: 2 A IJCAHPO  
Union Square 5 & 6 (Hilton)  |
| 8:00 am-12:30 pm  | COMT Written Certification Exam Review  
HANSEN, KISS  
Credits: 4.25 A IJCAHPO  
Mason (Parc 55)  |
| 1:00 pm-4:30 pm  | COMT Practical Certification Exam Review  
BAIRD, BALLENBERG, BUSCH,  
HOLT WILSON, WILSON  
Credits: 3.25 A IJCAHPO  
Union Square 21 (Hilton)  |
| 1:00 pm-4:30 pm  | ROUB Written Certification Exam Review  
MCDONALD  
Credits: 3.25 A IJCAHPO  
Mason (Parc 55)  |
| 4:30 pm         | Adjourn                                                                 |
| 7:30 am-2:30 pm  | Train The Trainer: Ophthalmic Training Strategies That Work  
BARR, FLAHERTY, JOST, MCDONALD,  
PARKER, PULLOS, SIMMS  
Credits: 2 A IJCAHPO  
Mission (Parc 55)  |
| 8:50 am-9:05 am  | Registration                                                            |
| 9:05 am-9:15 am  | Welcome                                                                 |
| 9:15 am-10:05 am | Keynote Address—Achieving Goals at Home and Work: A Metaphorical Analysis for AOP  
WOODORTH  
Credits: 0  |
| 10:05 am-10:55 am  | Medical Ethics for AOP  
FLAHERTY  
Credits: 1 A IJCAHPO  |
| 10:55 am-11:05 am | Break                                                                   |
| 11:05 am-11:35 am | Learn From the Lids: Using Meibography to Examine the Root Cause of MGD  
HOSTETTER  
Credits: 0.5 A IJCAHPO  |
| 11:35 am-12:05 pm | Where Hallucinations and Illusions Live in the Brain  
JACOBSEN, VEGUNTA  
Credits: 0.5 A IJCAHPO  |
| 12:05 pm-12:55 pm | Membership Luncheon  
Cyril Magnin Ballroom I  |
| 1:00 pm-1:50 pm  | Kenneth E. Woodworth, Jr., Fellow Lecture: 38 Years in the Rearview Mirror  
CARPENTER  
Credits: 1 A IJCAHPO  |
| 1:50 pm-2:40 pm  | Paying it Forward: Volunteerism for the Allied Ophthalmic Professional  
LAMELL  
Credits: 1 A IJCAHPO  |
| 2:40 pm-2:50 pm  | Break                                                                   |
| 2:50 pm-3:20 pm  | The Root of the Ophthalmic Dilemma!  
PARKER  
Credits: 0.5 A IJCAHPO  |
| 3:20 pm-3:50 pm  | Understanding Personality Types to Enhance Patient Engagement  
SHAFFER  
Credits: 0  |
| 3:50 pm-4:20 pm  | Quality Improvement: What Comes Next After the RCA?  
ROVICK  
Credits: 0.5 A IJCAHPO  |
| 4:20 pm-4:45 pm  | Break                                                                   |
| 4:45 pm-6:15 pm  | Who Wants to be a Super Tech?  
JOST  
Credits: 1.5 A IJCAHPO  
Cyril Magnin Ballroom I  |
| 6:15 pm         | Adjourn                                                                 |
| 7:30 am-8:00 am  | Breakfast and Town Hall                                                 |
| 8:10 am-9:00 am  | Common Errors Seen on Ophthalmic Skill Evaluations  
JOST  
Credits: 1 A IJCAHPO  |
| 9:00 am-9:50 am  | Optical Pearls and Pitfalls in Ophthalmology  
GUYTON  
Credits: 1 A IJCAHPO  |
| 9:50 am-10:00 am | Break                                                                   |
| 10:00 am-10:30 am | Electrophysiology: A Piece in a Complex Puzzle  
PFEIFER  
Credits: 0.5 A IJCAHPO  |
| 10:30 am-11:00 am | Recycling Eyeglasses in the 21st Century: A Modern Approach to Repurposing High-Quality Donations  
LYNCH  
Credits: 0.5 A IJCAHPO  |
| 11:00 am-11:50 am | Alcon Excellence Academy—Facilitating Training and Education Through Distance Learning  
FLOYD  
Credits: 0  |
| 11:50 am-12:50 pm | Lunch                                                                   |
| 1:00 pm         | Cyril Magnin Ballroom I                                                |
| 1:00 pm-1:50 pm  | Hands vs. Machine: Revisiting Manual and Soft Skills for Every Technician  
RODRIGUEZ  
Credits: 1 A IJCAHPO  |
| 1:50 pm-2:40 pm  | Optimizing Clinic Flow Without Compromising Care  
PULLOS  
Credits: 1 A IJCAHPO  |
| 2:40 pm-2:50 pm  | Break                                                                   |
| 2:50 pm-3:20 pm  | The Quirks of Confocal Imaging                                         |
| 3:20 pm-3:50 pm  | Deadly Ptosis                                                          |
| 3:50 pm-4:20 pm  | Who, What & How of Prosthetic Soft Lenses                              |
| 4:20 pm         | Adjourn                                                                 |

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

**ATPO’s Fellow Lecture**

38 Years in the Rearview Mirror  
Featuring Mona Carpenter, COMT, (F)ATPO  
Saturday, October 12, 1:00 pm  
Cyril Magnin Ballrooms II & III (Parc 55)
COA Written Certification Exam Review (AT-COA)
Sonya Dakin, COT, West End, NC
Andrea Grant, COMT, OSC, Lynden, WA
Friday, 8:00 am-11:30 am Credits: 3.25 A IJCAHPO
Prerequisite: COA certification required unless participant is a student enrolled in a COA program. Verification from the program director will be required.
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. Participants should be able to demonstrate knowledge and comprehension of IJCAHPO COA content areas.

COT Written Certification Exam Review (AT-COT)
Faith Race, COT, Newton, NC
Joan Wilson, BS, COMT, Miamisburg, OH
Friday, 1:00 pm-4:00 pm Credits: 0
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 COT content areas.
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. This course is restricted to those who are currently certified at the COA level or students enrolled in a COT program. It is intended to assist attendees who anticipate taking their COT exam in the near future.

COMT Written Certification Exam Review (AT-COMT)
Suzanne Hansen, Med, COMT, OSC, Frisco, TX
Anna Kiss, BSc, COMT, OSC, Alexandria, VA
Friday, 8:00 am-12:30 pm Credits: 4.25 A IJCAHPO
Prerequisite: COT 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 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.

COT Practical Certification Exam Review (AT-COT-P1)
Sarah Gill, COT, OSC, St. Louis, MO
Patricia Lamell, Med, COMT, OSC, CO, Jacksonville, FL
John Pignone Reed, COT, ROUB, OSC, Dunedin, FL
Faith Race, COT, Newton, NC
Samuel Reed, COT, ROUB, OSC, OCS, Dunedin, FL
Friday, 1:50 pm-3:50 pm Credits: 2 A IJCAHPO
Prerequisite: IJCAHPO COT examination content areas 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: retinoscopy, refinement, ocular motility, cover and alternate cover testing, 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.

COMT Practical Certification Exam Review (AT-COMT-P1)
Alicia Baird, COMT, Little Rock, AR
Bobbi Ballenberg, COMT, OSC, (F)ATPO, Stevenson Ranch, CA
Susan Busch, BA, COMT, Sarasota, FL
Jennifer Holt Wilson, COMT, Garden City, MI
Joan Wilson, BS, COMT, Miamisburg, OH
Friday, 1:00 pm-4:30 pm Credits: 3.25 A IJCAHPO
Prerequisite: Experience and understanding of testing procedures and equipment needed for the COMT level of certification. COT 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/ductions, 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. This course is restricted to those who are currently certified at the COT level or students enrolled in a COMT program. It is intended to assist attendees who anticipate taking their COMT exam in the near future.

ROUB Written Certification Exam Review (27FR58A)
Christine McDonald, COA, ROUB, OSC, COE, Fenton, MO
Friday, 1:00 pm-4:30 pm Credits: 3.25 A IJCAHPO
Description: 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.

Train The Trainer: Ophthalmic Training Strategies That Work (29FR16A)
Jessica Barr, COMT, ROUB, Belmont Hills, PA
Sergina Flaherty, COMT, OSC, CTC, (F)ATPO, Spring Branch, TX
Amy Jost, BS, COMT, CCRC, CTC, Cincinnati, OH
Christine McDonald, COA, ROUB, OSC, COE, Fenton, MO
Matthew Parker, PhD, LSSMBB, PMP, CTC, COMT, CST, Roslin, MA
Jacqueline Pullos, COMT, OSC, CTC, Salt Lake City, UT
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON Canada
Friday, 7:30 am-2:30 pm Credits: 2 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

*The Train The Trainer course has been submitted for 5.25 credit hours in Category A of the Certified Ophthalmic Executive (COE) credits by the National Board for the Certification of Ophthalmic Executives (NBCEO). The COE credential is the property of the American Society of Ophthalmic Administrators (ASOA) and is administered by the NBCEO.
Keynote Address—Achieving Goals at Home and Work: A Metaphorical Analysis for AOP (01SA2A)
Kenneth E. Woodworth, Jr., COMT, COE, (F)ATPO, FASAO, Lexington, KY
Saturday, 9:15 am-10:05 am Credits: 0
Description: Mr. Woodworth’s lecture will explain the processes for setting and achieving goals through interesting stories, metaphors and humor. After taking this course, attendees will be able to distinguish between goals and strategies in the ophthalmic work environment and home. This course will cover unique issues facing ophthalmic practices and personnel.
Financial interest disclosed

Medical Ethics for AOP (01SA3A)
Sergina Flaherty, COMT, OSC, CTC, (F)ATPO, Spring Branch, TX
Saturday, 10:05 am-10:55 am Credits: 1 A IJCAHPO
Description: This course will define medical ethics, morals and legal principles, and will outline the duties of the ophthalmic technician. After taking this course, attendees will be able to describe the practical application of these key topics as they relate to ophthalmology.
Financial interest disclosed

Learn From the Lids: Using Meibography to Examine the Root Cause of MGD (01SA4A1)
Todd Hostetter, COMT, CRA, FCLSA, (F)ATPO, Lancaster, PA
Saturday, 11:05 am-11:35 am Credits: 0.5 A IJCAHPO
Description: Eye care utilizes numerous “Go/No-Go” tools or tests every day, like color vision charts or OCT normative data, to assess normal and stage abnormal. Meibography can quickly define normal versus abnormal lid anatomy and differentiate aqueous-deficient versus evaporative dry eye. This course will summarize various techniques to visualize and image the Meibomian glands.
Financial interest disclosed

Where Hallucinations and Illusions Live in the Brain (01SA4A2)
Brad Jacobsen, MD, Salt Lake City, UT
Srav Vegunta, MD, Salt Lake City, UT
Saturday, 11:35 am-12:05 pm Credits: 0.5 A IJCAHPO
Description: This course will review hallucinations and illusions caused by retinal, neurological and systemic diseases. Attendees will learn how to differentiate between illusions and hallucinations and understand their pathophysiology. This presentation will also involve learning simple neuroanatomy and will review case presentations.

Paying it Forward: Volunteerism for the Allied Ophthalmic Professional (01SA6A)
Patricia Lamell, MEd, COMT, CO, OSC, Jacksonville, FL
Saturday, 1:50 pm-2:40 pm Credits: 1 A IJCAHPO
Description: This course will discuss non-traditional methods of testing and delivery of eye care, including underinsured and uninsured patients. Opportunities for personnel to use their skills to provide eye care in their community and on a national and international basis will also be highlighted. After taking this course, attendees will be able to compare clinical settings used in off-site eye care provisions.

The Root of the Ophthalmic Dilemma! (01SA7A1)
Matthew Parker, PhD, LSSMBB, PMP, CTC, COMT, CST, Roslindale, MA
Saturday, 2:50 pm-3:20 pm Credits: 0.5 A IJCAHPO
Description: Problem solving can be a daily activity in Ophthalmology; moreover, problem recognition is paramount. This course introduces general knowledge in Root Cause Analysis (RCA) and case presentations of the rewards and discoveries that enhance patient and surgical care. Attendees will learn how standardized methodology is a critical part in everyday clinical activities and patient satisfaction.
Financial interest disclosed

Understanding Personality Types to Enhance Patient Engagement (01SA7A2)
Kemp Shafer, BS, Carmel, IN
Saturday, 3:20 pm-3:50 pm Credits: 0
Description: This course will help attendees tailor their conversations to the personality of the patient to impact adherence and outcomes. Attendees will be able to identify their own personality type and learn how to adapt and customize the way they communicate with various patients, improving the overall quality of care.

Quality Improvement: What Comes Next After the RCA? (01SA8A)
Lisa Rovick, MHSc, COMT, CO, (F)ATPO, Minneapolis, MN
Saturday, 3:50 pm-4:20 pm Credits: 0.5 A IJCAHPO
Description: This course will cover ways to design and implement a corrective plan to address the identified root cause. Cases presented in the RCA section will be used to provide context. Specific communication tools will be introduced, including the TeamSTEPPS model, which is designed to clarify communication and empower all health care providers to speak out when they observe a problem. The instructor will discuss the significance of how communication leads to improved patient safety and outcome.

Who Wants to be a Super Tech? (AT-SUP)
Amy Jost, BS, COMT, CCRC, CTC, Cincinnati, OH
Saturday, 4:45 pm-6:15 pm Credits: 1.5 A IJCAHPO
Description: This session is a fun game-show like event that features questions from various areas of the IJCAHPO certification examination content. All levels of difficulty will be covered. Prizes and recognition will be awarded to all participants.

THANK YOU 2019 ORGANIZATIONAL DONORS

Cleveland Ophthalmic Personnel Society

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Michigan Ophthalmic Personnel Society
Common Errors Seen on Ophthalmic Skill Evaluations (01SU1A)
Amy Jost, BS, COMT, CCRC, CTC, Cincinnati, OH
Sunday, 8:10 am-9:00 am Credits: 1 A IJCAHPO
Description: This course will review common errors identified during ophthalmic skill evaluations and identify ways to ensure proper technique is followed, including creation of clinical standard operating procedures. Attendees will learn how to properly train, implement their training and administer frequent skill evaluations to ensure competencies are met.

Optical Pearls and Pitfalls in Ophthalmology (01SU2A)
David Guyton, MD, Baltimore, MD
Sunday, 9:00 am-9:50 am Credits: 1 A IJCAHPO
Description: This course will cover the everyday pearls and pitfalls in an ophthalmic practice including assessing accommodation, detecting IOL tilt and decentration, focusing ophthalmic instruments and the bag of glasses syndrome. Attendees will learn tricks in taking visual acuity in infants, intermittent monocular diplopia and the dragged-fovea diplopia syndrome.

Electrophysiology: A Piece in a Complex Puzzle (01SU3A1)
Wanda Pfeifer, COMT, CO, OC(C), Riverside, IA
Sunday, 10:00 am-10:30 am Credits: 0.5 A IJCAHPO
Description: The purpose of this course will be to review some diseases and eye conditions whose detection or assessment may be facilitated by the results of electrophysiological tests. Through case examples, suggestions will be made as to the appropriate use of electroretinograms, visual evoked potentials and dark adaptometry tests, and the resultant waveform patterns seen in these conditions.
Financial interest disclosed

Recycling Eyeglasses in the 21st Century: A Modern Approach to Repurposing High-Quality Donations (01SU3A2)
Jeffery Lynch, MD, MPH, Stillwater, MN
Sunday, 10:30 am-11:00 am Credits: 0.5 A IJCAHPO
Description: This course will discuss the global public health crisis of simple refractive error and how ReSpectacle is using an innovative, mass collaborative approach to recycling prescription-matched, high-quality used eyeglasses to people all over the world. Attendees will also learn how traditional eyeglass recycling has been performed over the past century.

Alcon Excellence Academy—Facilitating Training and Education Through Distance Learning (01SU4A)
Rustin Floyd, MBA, Fort Worth, TX
Sunday, 11:00 am-11:50 am Credits: 0 A IJCAHPO
Description: Alcon has created the Alcon Experience Academy (AEA), designed to elevate health care professional training and education through advancements in technology. This course will review the three pillars of training and education within AEA: 1) training and education on disease state, biometry and anatomy & physiology through AEA’s web-based platform; 2) virtual reality training and education; and 3) Alcon’s intranet website that helps to identify best practices in training and education from around the world.
Financial interest disclosed

Hands vs. Machine: Revisiting Manual and Soft Skills for Every Technician (01SU5A)
Sumaya Rodriguez, COT, ABO-AC, FNAO, USN Ret., North Chesterfield, VA
Sunday, 1:00 pm-1:50 pm Credits: 1 A IJCAHPO
Description: This course will revisit soft skills and manual clinical skills such as the use of a retinoscope, a manual lensometer and calibration of a Goldmann perimeter. This course will also cover a new outlook on automation in the ophthalmic clinic.

Optimizing Clinic Flow Without Compromising Care (01SU6A)
Jacqueline Pullos, COMT, OSC, CTC, Salt Lake City, UT
Sunday, 1:50 pm-2:40 pm Credits: 1 A IJCAHPO
Description: This course will address the elements of clinic flow that are directly influenced by technicians, including work up times, ancillary testing times and engagement. Specific methods to evaluate and improve patient flow, without compromising care, will be discussed. Ideas and tools will be provided that may be useful in designing an improvement process for your own clinic.

The Quirks of Confocal Imaging (01SU7A1)
Timothy Bennett, CRA, OCT-C, FOPS, Hershey, PA
Sunday, 2:50 pm-3:20 pm Credits: 0.5 A IJCAHPO
Description: This course will explore the principles of confocal imaging and potential enhancement of some ocular pathologies with this technology. The Heidelberg Spectralis confocal scanning laser ophthalmoscope (cSLO) is a diagnostic imaging device used for several imaging modalities including: infrared reflectance (IR), blue reflectance, fluorescein angiography, ICG angiography and fundus autofluorescence (FAF). The confocal capability of the cSLO allows it to capture high-contrast, finely detailed images, but can also create a tonal shift related to focus.

Deadly Ptosis (01SU7A2)
Kari Golnik, MD, MEd, Blue Ash, OH
Sunday, 3:20 pm-3:50 pm Credits: 0.5 A IJCAHPO
Description: This course will cover several entities that may present with ptosis and that could be fatal. The course will be a case-based presentation with multiple videos illustrating relevant findings. Myasthenia gravis, Horner syndrome, third nerve palsy and CPEO will be covered.

Who, What & How of Prosthetic Soft Lenses (01SU8A)
Wendy Ford, COMT, FCLSA, NCLEM, Manassas, VA
Sunday, 3:50 pm-4:20 pm Credits: 0.5 A IJCAHPO
Description: This course will discuss the care and handling of prosthetic soft lenses. Attendees will learn what a prosthetic soft lens is, what types of ocular conditions will benefit from these special lens designs and how to fit one. Cosmetic, theatrical, recreational and therapeutic lenses will be discussed.

Thank you to ATPO faculty for sharing their time, talent and knowledge.
Cheers to 50 Years

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October 11 - 13, 2019   •   Hilton Union Square/Parc 55

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KEYNOTE SPEAKER:
KENNETH E. WOODWORTH, JR., COMT, COE, FASOA, (F)ATPO

KENNETH E. WOODWORTH, JR., FELLOW LECTURE:
MONA CARPENTER, COMT, (F)ATPO

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9:30 am-10:30 am
IJCAHPO Resource Center, Hilton Union Square, Imperial Ballroom

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Get Authoritative Coding Instruction at AAO 2019

Fundamentals of Ophthalmic Coding (19CODE1)
Saturday, Oct. 12 | 9:00 AM–12:00 PM
Moscone Center South, San Francisco
Room 206-208
Level: Beginner–Intermediate

Senior Instructor:
Jenny Edgar, CPC, CPCO, OCS, OCSR
Manager of Coding and Reimbursement, AAO

Whether you’re new to ophthalmology or a well-established professional, this interactive three-hour session will help you build greater confidence to take on claims and documentation challenges. No matter the sub-specialty, this course provides you with details for billing the most common surgeries, testing services, modifiers, payer requirements and more. This course will specifically address:
• Top 10 competencies for billing retina and cataract procedures
• Most commonly billed minor and major surgical requirements
• Differences and commonalities between federal and commercial payers
• Modifier usage for exams, tests and surgeries
• Case examples of billing injections
• Interactive Q&A (audience response units included)

Coding Camp (19CODE02)
Saturday, Oct. 12 | 1:30 PM–4:30 PM
Moscone Center South, San Francisco
Room 206-208
Level: Intermediate

Senior Instructor:
Sue Vicchrilli, COT, OCS, OCSR, Director of Coding and Reimbursement, AAO

Sharpen your coding skills to stay ahead of medical claim examiners with this engaging three-hour intermediate coding course. Like Fundamentals of Ophthalmic Coding, this session can improve your clinical documentation and compliance process to reduce claim denials and avoid audits. This course is an investment in your practice (and yourself!) that you can’t afford to miss.

This course will address:
• Choosing modifiers that won’t break your practice
• Top reasons why claims are denied
• To bundle or not to bundle: Consequences of not following Correct Coding Initiative
• Rapid retina coding Q&A
• 2020 coding and MIPS updates
• Bonus content: New decision trees and fact sheets
• Interactive Q&A (audience response units included)

Space often sells out, so sign up early.*

Visit aao.org/2019 to purchase tickets.
Note: Registration for AAO 2019 is not required for these courses.

Accreditation Statement
The American Academy of Ophthalmology is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Credit Information
The American Academy of Ophthalmology designates this live activity for a maximum of 3 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in this activity.

AAPC will honor 1:1 CEUs for any live event offering CME credit or AMA PRA Category Credit. Attendees are advised to have their badges scanned at the course for attendance verification.

3.0 IJCAHPO Group A CE credits have been approved for both courses. Attendees must sign the attendance sheet and have their badge scanned for attendance verification.

* Due to limited capacities, coding sessions may sell out. Any remaining tickets will be sold on-site on a first-come basis.
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.

Register for CLSA Contact Lens Symposium using the registration form (pages 7-8) or online at www.jcahpo.org/ACE.

CLSA is more than a membership society. Our members are focused, passionate, knowledgeable, share their experiences and learn from one another. CLSA holds educational programs, provides online continuing education courses, publishes textbooks, publishes a quarterly journal and offers career development through the Fellow Program, CLSA’s most prestigious level of achievement.

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

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

www/clsa.info
Registration Available for Full Day or Half Day (Morning or Afternoon)
Live Stream of IJCAHPO Capstone Lectures available—see pages 13-15 for more information.
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.

How to Prepare your Patients for Contact Lens Success
Wendy Ford, COMT, FCLSA, NCLEM, Manassas, VA
8:00 am-8:50 am  Credits: 1 A IJCAHPO
Description: This course will discuss setting the patient up for successful contact lens wear through careful patient and lens selection, prefit ocular evaluation and management of their contact lens experience from start to finish.

The Latest in Soft Lens Designs, Materials and Solutions
Phyllis Rakow, COMT, FCLSA-H, NCLEM, Kendall Park, NJ
8:50 am-9:40 am  Credits: 1 A IJCAHPO
Description: This course will discuss soft lens offerings, including the rapidly growing sector of daily disposables; the advances in materials to help improve patient comfort and reduce drop out; and current soft lens solution selection on the market today.

Remember When? Fluorescein Pattern Interpretation
Jane Beeman, FCLSA-H, NCLE-AC, Fairport, NY
10:00 am-10:50 am  Credits: 1 A IJCAHPO
Description: This course will discuss the art of using fluorescein to aid in the fitting and management of rigid gas permeable lenses, from corneal to scleral lenses.

Identifying Contact Lens Related Complications
Buddy Russell, COMT, FCLSA, ABOC, NCLEM, Loganville, GA
10:50 am-11:40 am  Credits: 1 A IJCAHPO
Description: This course will discuss how to troubleshoot a contact lens problem—is it the fit, an underlying condition, solutions or just plain patient compliance? Attendees will learn how to identify these complications and how to address them.

Who, What & How of Prosthetic Soft Lenses
Wendy Ford, COMT, FCLSA, NCLEM, Manassas, VA
1:00 pm-1:50 pm  Credits: 1 A IJCAHPO
Description: This course will discuss the care and handling of prosthetic soft lenses. Attendees will learn what a prosthetic soft lens is, what types of ocular conditions will benefit from these special lens designs and how to fit one. Cosmetic, theatrical, recreational and therapeutic lenses will be discussed.

Keratoconus & the Great Imposters
Phyllis Rakow, COMT, FCLSA-H, NCLEM, Kendall Park, NJ
1:50 pm-2:40 pm  Credits: 1 A IJCAHPO
Description: This course will cover keratoconus, pellucid marginal degeneration, keratoglobus, post-refractive surgery ectasias, post-penetrating keratoplasty and pseudo keratoconus. Differential diagnosis and options for lens correction will be discussed.

Scleral Lenses
Buddy Russell, COMT, FCLSA, ABOC, NCLEM, Loganville, GA
3:00 pm-3:50 pm  Credits: 1 A IJCAHPO
Description: This course will discuss the differences and similarities of scleral lenses in the management of irregular corneal surface disorders and ocular surface disease. Scleral contact lenses provide unique therapeutic and vision rehabilitative properties that overcome the therapeutic gaps encountered with conventional contact lens therapies. The advancement in lens design and manufacturing techniques of these products gives the scleral lens fitter many different options.

Myopia Control Update
Jane Beeman, FCLSA-H, NCLE-AC, Fairport, NY
3:50 pm-4:40 pm  Credits: 1 A IJCAHPO
Description: This course will discuss recent developments in the use of specific treatments for myopia control. Attendees will learn about treatments to slow myopia progression from eye drops, to multifocal contact lenses to the science of orthokeratology. Myopia control is important in an effort to reduce the risk of vision-threatening complications including: glaucoma, cataracts, retinal detachment and possible blindness.

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Visit our JCAHPO table & AAO booth #355 for great show specials & a chance to win $200 in free personalized products!
THE CONSORTIUM OF OPHTHALMIC TRAINING PROGRAMS CONGRATULATES IJCAHPO FOR 50 YEARS OF PROMOTING CERTIFICATION OF ALLIED OPHTHALMIC PERSONNEL

On behalf of our COTP member programs committed to promoting and enhancing ICA-accredited, formal training programs, we wish you continued success!

Caldwell Community College and Technical Institute, Hudson, NC
Camden County College, Blackwood, NJ
Central Piedmont Community College, Charlotte, NC
College of DuPage, Glen Ellyn, IL
Dollasie University/IVK Health Centre, Halifax, NS, CANADA
Delgado Community College, New Orleans, LA
Duke University School of Medicine, Durham, NC
Florida State College at Jacksonville, Jacksonville, FL
Georgetown University, Washington, D.C.
Henry Ford Community College, Dearborn, MI
Housatonic Community College, Bridgeport, CT
Kingston Ophthalmic Training Centre, Kingston, ON, CANADA
Mercy College of Ohio, Toledo, OH
Metro Technology Centers, Oklahoma City, OK
Miami Valley Career Technology Center, Clayton, OH
Palm Beach State College, Palm Beach, FL
Portland Community College, Portland, OR
Regions Hospital, St. Paul, MN
Renton Technical College, Renton, WA
Sandhills Community College, Pinehurst, NC
San Jacinto College, Pasadena, TX
Stanton Territorial Health Authority, Yellowknife, NT, CANADA
Stark State College, North Canton, OH
Triton College, River Grove, IL
Tulsa Technology Center, Tulsa, OK
University of Arkansas for Medical Sciences, Little Rock, AR
University of Ottawa, Ottawa, ON, CANADA
University of Puerto Rico, San Juan, PR
USC Keck Eye Institute, Los Angeles, CA
Volunteer State Community College, Gallatin, TN

*Program is in the process of applying for accreditation via the International Council on Accreditation (ICA)
2019 Faculty

Thank You! IJCAHPO 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>Sat, 3:00-3:50</td>
<td>14SA7</td>
<td><strong>NEW!</strong> Update on Modern Corneal Procedures: DMEK, DSEK, DALK, PKP</td>
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<td>06SU2</td>
<td><strong>NEW!</strong> Anterior Segment Trauma</td>
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<td>04SU5</td>
<td>Corneal Procedures for Today and Tomorrow</td>
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<td>Keratoconus and the Other Corneal Ectasias: Update for Technicians</td>
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<td><strong>NEW!</strong> Eye Bank Prepared Tissue: The Surgery Starts Here</td>
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<td>Empowering Glaucoma Patients to Take Care of Themselves</td>
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<td>What Is This? Ocular Findings in Systemic Disease</td>
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<td>10SU3 NEW! Ultrasound Descriptive Interpretation</td>
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<td>08SU6 The Future of Ophthalmic Photography</td>
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<td>14SA5 Clinical Correlation of Fluorescein Angiography, OCT and OCT-A</td>
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<td>17. Instruments and Specialized Tests INTERMEDIATE</td>
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<td>08SA6 What?! I Have an Rx Check?</td>
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<td>10SA6 Specialty Contact Lenses in Ophthalmology</td>
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<td>15SU5 Identifying and Assisting the Patient with Low Vision</td>
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<td>21. Masters Courses MASTER LEVEL</td>
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<td>02FR7 Master Mystery: Glaucoma Case Investigations</td>
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<td>06SA2 NEW! Understanding Ocular Tumors—You Can’t Miss Them</td>
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<td>04SU1 Integrating Artificial Intelligence to Advance Ophthalmic Care</td>
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<td>13SU12 NEW! Hot Topics in Neuro-Ophthalmology: TIs, Optic Neurites and Temporal Arteritis</td>
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<td>12SU56 Scribing</td>
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<td>12SA23 NEW! Imaging</td>
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# Categories-at-a-Glance

## 23. Learning Labs

### BASIC

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<td>Sat, 9:10-11:10</td>
<td>21SA23W</td>
<td>Slit Lamp Microscopy</td>
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<td>Sat, 9:10-11:00</td>
<td>22SA23W</td>
<td>Retinoscopy: Plus Cylinder</td>
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<td>Sat, 10:20-11:10</td>
<td>23SA3W</td>
<td>Contact B-Scan Ultrasonography</td>
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<td>Sat, 11:30-1:30</td>
<td>16SA45W</td>
<td>Corneal Topography with the Pentacam</td>
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<td>Sat, 11:30-12:20</td>
<td>17SA4W</td>
<td>Assisting in Intravitreal Injections</td>
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<td>Sat, 12:40-2:40</td>
<td>22SA56W</td>
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<td>Sat, 12:40-1:30</td>
<td>25SA5W</td>
<td>Exam Skills</td>
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<td>Sat, 15:0-2:40</td>
<td>17SA6W</td>
<td>NEW! The View on Scribing</td>
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<tr>
<td>Sat, 1:5-3:50</td>
<td>20SA67W</td>
<td>OCT-A in a Multi-Modal Imaging Approach with the SPECTRALIS</td>
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<td>Sat, 1:5-2:40</td>
<td>23SA6W</td>
<td>Ultrasonography: Minus Cylinder</td>
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<td>Sat, 1:5-3:50</td>
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<td>Sun, 8:00-8:50</td>
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<td>NEW! Meibography: Learn from the Lids</td>
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<td>Sun, 8:00-8:50</td>
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<td>Fundus Photography</td>
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<td>Sun, 9:10-10:00</td>
<td>20SU2W</td>
<td>Visual Acuity Testing for Preverbal Children</td>
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<td>21SU2W</td>
<td>Meibography: Learn from the Lids</td>
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<tr>
<td>Sun, 10:20-12:20</td>
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<td>OCT-A in a Multi-Modal Imaging Approach with the SPECTRALIS</td>
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<td>Sun, 12:40-2:40</td>
<td>26SU56W</td>
<td>Fundus Photography</td>
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### ADVANCED

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<thead>
<tr>
<th>DAY &amp; TIME</th>
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<td>Fri, 12:40-2:40</td>
<td>21FR56W</td>
<td>Advanced Slit Lamp Examination Techniques</td>
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<td>Fri, 12:40-2:40</td>
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<td>Optical Biometry and IOL Calculations</td>
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<td>Advanced LENSTAR Optical Biometry</td>
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<td>Sat, 9:10-11:10</td>
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<td>Optical Biometry and IOL Calculations</td>
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<td>Sun, 10:20-12:20</td>
<td>26SU34W</td>
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<td>Sun, 11:30-12:20</td>
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<td>Ocular Motility: Approaching Patient Examinations</td>
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**Course Descriptions**

**Understanding COURSE LISTINGS**

### 1. Administrative/Practice Management

#### **BASIC**

**Clinical Efficiency Through Lean Six Sigma Methodology (02FR6)**
Janet Hunter, BS, COMT, Brooklyn, NY  
Friday, 1:50 pm-2:40 pm  
Credits: 1 A 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 Ophthalmic Personnel (front desk and technicians) who need to develop a general awareness of Lean Six Sigma clinical efficiency, concepts and techniques.

**Pump Up Your Techs! (05SA2)**
Nickole Delaney, COA, OSC, Columbus, OH  
Saturday, 9:10 am-10:00 am  
Credits: 1 A IJCAHPO, AOC-NC  
Description: This course will review a progressive training program with tips and techniques that will help technicians maximize their full potential.

**Setting Up an Office Procedure Room: A Primer (11SA3)**
Roshni Vasaiwala, MD, Maywood, IL  
Saturday, 10:20 am-11:10 am  
Credits: 1 A IJCAHPO, AOC-NC  
Description: Allied 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.

**The Ophthalmic Technician’s Critical Role in Medical Quality and Patient Safety (03FR4)**
Thomasine Gorry, MD, Philadelphia, PA  
Friday, 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, patient safety and the role of Allied Ophthalmic Personnel. We will look at data and discuss the results and their implication for daily practice.

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**INTERMEDIATE**

**NEW! Best Practices for EHR, Patient Security and Confidentiality (05SA6)**
Chris Dean, CMHP, NCP, Saint Cloud, MN  
Saturday, 1:50 pm-2:40 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2  
Description: This course will discuss why you need to safeguard patient information and how to implement your policies and procedures. The importance of steps to safeguard patient data on EHRs and appropriate communication for patients about their data will also be discussed.

**NEW! Co-Management Liability Exposures and Risk Management (05SU5)**
Hans Bruhn, MHS, San Francisco, CA  
Sunday, 12:40 pm-1:30 pm  
Credits: 1 A IJCAHPO  
Description: This course will identify the medical malpractice liability risk exposures associated with patient co-management and how to mitigate those patient safety issues.  
Financial interest disclosed

**NEW! General Ophthalmology Clinic Efficiency Review and Pearls (05SA7)**
Kenneth Woodworth, Jr., COMT, COE, (F)ATPO, FASOA, Lexington, KY  
Saturday, 3:00 pm-3:50 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2  
Description: This course is intended for Allied Ophthalmic Personnel (AOP) working in general ophthalmology practices. It will offer tips for providing efficient and quality patient care. The course will serve as a review for some and an introduction for others. Topics such as bottleneck identification and resolution, patient flow and facility design will be presented. Eye and E/M code examination elements that AOP can easily perform will be discussed. Certification will be presented from an efficiency perspective. Medicare diagnostic test supervision requirements and the diagnostic tests that fall under each of the three categories will be included with concentration placed on those diagnostic tests that can be performed without a physician present. Finally, this course will include the effect schedule templates have on clinic efficiency.  
Financial interest disclosed

**Leading Your Tech Team (06SU7)**
Savory Turman, COMT, OCS, Fort Collins, CO  
Sunday, 3:00 pm-3:50 pm  
Credits: 1 A IJCAHPO, AOC-NC  
Description: Staff management is challenging and managing technicians presents a unique challenge. We will discuss building a training program; staff efficiency and clinical flow; and improving management skills. We will also have a discussion about difficult staff situations and open the discussion to include audience participation for complicated scenarios in technician management and training.

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**DISCLAIMER:** In granting continuing education credit, IJCAHPO does not warrant or express an opinion regarding the course content or materials, the accuracy of information presented, or the skills and qualifications of the presenters, sponsors or authors.

**FINANCIAL INTEREST:** An instructor’s financial interest is disclosed at the beginning of their presentation.
### Teaching Skills for Successful Technicians (05SU7)

**Nicole Delaney, COA, OSC, Columbus, OH**

**Saturday, 1:50 pm-2:40 pm**  
**Credits:** 1 A IJCAHPO, CEP: CABRN-1  

**Description:** This course will provide various case studies related to supervising and training technicians.

### Middle Management: Now What? (08SU4)

**Natalie Loyano, COMT, OSA, CRA, (F)ATPO, Biloxi, MS**  
**Christine McDonald, COA, ROUB, OSC, COE, Fenton, MO**

**Sunday, 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 (15SA45)

**Diana Hatsis, RN, BSN, COT, Boynton Beach, FL**  
**Munira Hussain, MS, COA, CCRP, Ann Arbor, MI**  
**Cheryl Kiesel, COA, ROUB, Fort Myers, FL**

**Saturday, 11:30 am-1:30 pm**  
**Credits:** 2 A IJCAHPO, OPS 1:2  

**Prerequisite:** Participation in ophthalmic research as a study coordinator.  

**Description:** This course is an interactive discussion with multiple faculty. The 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 timelines without becoming stressed and overburdened.  

**Financial interest disclosed**

### Teaching Skills for Successful Technicians (05SU7)

**Sharon Brown, COT, Sandwich, MA**  
**Lisa Miller, COMT, Yarmouth Port, MA**

**Sunday, 3:00 pm-5:30 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.

### Optimizing Patient Flow for Technicians (06SU6)

**Christine McDonald, COA, ROUB, OSC, COE, Fenton, MO**

**Sunday, 1:50 pm-2:40 pm**  
**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 collaborating as a team to formulate simple solutions to complex problems, such as patient flow.

### 2. Chart Documentation/Coding/Scribing/Triage

#### BASIC

**Name That Modifier! (03FR3)**

**Elizabeth Woodke, OCS, COE, OCSR, Eugene, OR**  
**Matthew Baugh, MHA, COT, OCS, OCSR, West Jordan, UT**

**Saturday, 10:00 am-11:10 am**  
**Credits:** 1 A IJCAHPO, AOC-NC  

**Description:** This fun and interactive course is designed to define the most used modifiers and how to append them to services performed. CPT codes do not always tell the complete story for what transpired during the visit. Modifiers are an integral part of informing the payers what was done and why. They can indicate when a service has been altered or changed in some way. By learning the nuances of modifiers and understanding when they should be appended, technicians alleviate any additional questions that may arise before claims are submitted, which improves efficiency for the entire practice.  

**Financial interest disclosed**

### Ouch! Ophthalmic Technician Triage Coding (03FR7)

**Matthew Baugh, MHA, COT, OCS, OCSR, West Jordan, UT**

**Friday, 3:00 pm-5:30 pm**  
**Credits:** 1 A IJCAHPO  

**Description:** To achieve proper, prompt payment, practices must focus on submitting claims correctly the first time according to each unique payer rules. This course is designed for ophthalmic technicians who cover triaging the frequent and freaky injuries, documentation for exams, emergency or after-hour fees and if surgery is required, correct CPT surgical codes. Plus, how to address emergency preauthorization even after working hours. ICD-10 diagnosis code selection and appropriate modifiers will also be addressed.

### INTERMEDIATE

### NEW! Audit Targets: How the Knowledgeable Technician Can Slay the Dragon (08SU2)

**Jennifer Edgar, CPC, CPCO, OCS, OCSR, San Francisco, CA**  
**Matthew Baugh, MHA, COT, OCS, OCSR, West Jordan, UT**

**Sunday, 9:10 am-10:00 am**  
**Credits:** 1 A IJCAHPO  

**Description:** Audits are now commonplace among practices, however there is still confusion about how to survive. Learn the top audits impacting ophthalmology and how the knowledgeable technician can help save the day with dynamic documentation. Attendees are encouraged to bring along a de-identified chart note to use as we discuss what payers expect to see submitted for review. Use these techniques to ensure your practice will overcome the audit dragon.
NEW! The ICD-10 Top Ten (07SA7)
Heather Dunn, COA, OCS, Southern Pines, NC
Saturday, 3:00 pm-3:50 pm  Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: This course will lead participants through ten need-to-know elements of ICD-10 coding. We will discuss the technician’s role in the coding process, become aware of elements that influence coding and review current and future changes.

NEW! Triaging Ocular Emergencies: Should They Come in or Not? (08SA2)
Sherry Malone, COA, OSC, Plymouth, MA
Saturday, 9:10 am-10:00 am  Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: This course will discuss how to triage ocular complaints over the phone. Some emergencies have subtle signs and symptoms, and some routine problems can be terrifying to the person calling in. This course will serve as a guide on how to handle these conversations and teach the listener how to distinguish the difference between routine situations and true emergencies.

NEW! Healthcare Cybersecurity & Updates on EHR Issues (07SU7)
Michelle Pineda, MBA, San Francisco, CA
Susan Doucette, BA, Encino, CA
Sunday, 3:00 pm-3:50 pm  Credits: 1 A IJCAHPO, AOC-NC, OPS 1:1
Description: Healthcare cybersecurity issues can shut down a medical practice. Ransomware attacks and rogue employees are a few of the challenges facing most medical practices. EHR issues add another layer of complexity and can result in medical malpractice claims and HIPAA issues. Using actual claims and lawsuits, this course will present lessons learned and risk management recommendations. Financial interest disclosed

3. History Taking

NEW! Cognitive Bias and Allied Health Personnel in Ophthalmology (05SU4)
James Farmer, MD, FRCSC, FRCP, Kingston, ON Canada
Sunday, 11:30 am-12:20 pm  Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: Using a lecture-based platform with clinical vignettes, the intent of this course is to educate Allied Ophthalmic Personnel about cognitive bias in their daily practice, the adverse effects it has on the health outcomes of their patients and strategies to avoid it.
IJCAHPO Course Descriptions

NEW! Unmasking and Rectifying Errors: Become Indispensable to Your Ophthalmologist (06SU5)
Natalie Loyacano, COMT, OSA, CRA, (F)ATPO, Biloxi, MS
Sunday, 12:40 pm-1:30 pm  Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1

Description: Detecting, troubleshooting and correcting errors are critical skills that the ophthalmologist highly values in an ophthalmic technician. Most common errors are simple mistakes. This course will outline how to detect common errors made during the work up or intake of a patient, how to identify errors when performing diagnostic testing and how to correct them. This session will also address identifying and troubleshooting equipment errors.

INTERMEDIATE

NEW! Anatomy and Physiology: The Whats, Whys and Hows (05SA4)
Sharon Alamalhodaei, COMT, OSC, Palm Coast, FL
Saturday, 11:30 am-12:20 pm  Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1

Description: This course will discuss ocular structures and their intriguing mechanisms of actions, functions and physiology.

NEW! Ergonomics and Wellness in Ophthalmology (06SU4)
Femida Kherani, MD, FRCSC, Dipl. ABO, Burnaby, BC Canada
Sunday, 11:30 am-12:20 pm  Credits: 1 A IJCAHPO, CEP: CABRN-1

Description: This course will explore current issues and themes within ergonomics, wellness, work-life integration, burnout and job satisfaction. It will discuss how to improve personal wellness and ergonomics in your clinical practice.

Ophthalmic Instrument Care and Sterilization (09SU6)
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.

Optics Review: The Fun and Necessary Optical Concepts (09SA6)
Suzanne Hansen, MEd, COMT, OSC, Frisco, TX
Saturday, 1:50 pm-2:40 pm  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 necessary approaches for working effectively in the ophthalmology clinic.

5. Comprehensive Clinical Ophthalmology

BASIC

Infection Prevention in Ophthalmology (04SA3)
Carol Pollack-Rundle, BS, COMT, Saline, MI
Saturday, 10:20 am-11:10 am  Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1

Description: This course will cover infection prevention practices in clinical ophthalmology compliant with Joint Commission and CMS regulations. Specific CDC guidelines for ophthalmic equipment such as lenses and tonometers will be discussed.

NEW! Ocular Pharmacology (07SU5)
Gary Novack, PhD, San Rafael, CA
Sunday, 12:40 pm-1:30 pm  Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:1

Description: This course will present basic pharmacological principles of ocular medications and classes of agents. It will also discuss the benefits and risks of compounding pharmacy and off-label use.

Financial interest disclosed

NEW! Patient-Centered Approach to the Management of Ocular Surface Discomfort (15SA3)
Michelle Kim, MD, Irwindale, CA
Bobek Modjtahedi, MD, Baldwin Park, CA
Bobeck Modjtahedi, MD, Baldwin Park, CA
Saturday, 10:20 am-11:10 am  Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

Description: Complaints of ocular surface discomfort and “dry eye” are quite common. The current approach is to provide multiple overlapping treatments without listening to the patient. This course will discuss a new simplified patient-centered approach to provide initial treatment for ocular surface complaints. Patients are triaged and treated based on their primary symptom: intermittent blurry vision, foreign body sensation, burning, itching, tearing and contact lens discomfort. This process will provide a personalized approach to address patient symptoms.

INTERMEDIATE

Amniotic Membrane (04SA2)
James Townley, III, MD, Anchorage, AK
Saturday, 9:10 am-10:00 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 (07SU6)
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON Canada
Sunday, 1:50 pm-2:40 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 (03FR1)**
James McDonnell, MD, Maywood, IL  
Friday, 8:00 am-8:50 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.

**NEW! How to Work Up Without Getting Worked Up! (08SA7)**
Savory Turman, COMT, OCS, Fort Collins, CO  
Saturday, 3:00 pm-3:50 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1  
Description: This course is intended for technicians to provide a solid foundation for critical thinking within the eye examination. There are many "rabbit holes" one may go down in the course of a patient exam. This course is intended to instruct the technician on how to avoid pitfalls in examinations and to become more thorough while maintaining efficiency throughout the clinical flow process.

**The Evaluation of the Patient with Double Vision (07SA5)**
Sarah Whitecross, MMedSci, OC(C), CO, Boston, MA  
Saturday, 12:40 pm-1:30 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 vision and double vision; and between monocular and binocular diplopia will be presented.

**The Patient with Strabismus: Double Trouble? (10SU5)**
Douglas Fredrick, MD, New York, NY  
Sunday, 12:40 pm-1:30 pm  
Credits: 1 A IJCAHPO, AOC-C, 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.

**You Saw What? A Curious Compendium of Ocular Oddities (02FR5)**
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 Acanthamoeba Keratitis through Zellweger Syndrome. Attendees will be invited to share unusual cases they have seen.

**ADVANCED**

**The Myopia Epidemic: Public Health Implications and Interventions (10SA5)**
Bobec Modjahedehi, MD, Baldwin Park, CA  
Donald Fong, MD, Baldwin Park, CA  
Saturday, 12:40 pm-1:30 pm  
Credits: 1 A IJCAHPO, AOC-C, 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).

**The Red Eye (02FR3)**
Mark Rolain, MD, Sterling Heights, MI  
Friday, 10:20 am-11:10 am  
Credits: 1 A UCAHPO, 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.

**6. General Surgery**

**BASIC**

**NEW! Basic Ophthalmic Surgical Assisting (10SA2)**
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 prepare Allied Ophthalmic Personnel to aid in the preparation of patients for surgery to gain competency with aseptic techniques, to assist with ophthalmic anesthesia and common ophthalmic surgical procedures and to recognize surgical complications.

**INTERMEDIATE**

**Compliance in the Ophthalmic ASC in 2019 (09SU7)**
Elethia Dean, PhD, MBA, RN, BSN, Columbus, OH  
Sunday, 3:00 pm-3:50 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1  
Description: This course will cover content from surveys focused on how to achieve compliance in 2019, including—but not limited to—instrument sterilization in the ophthalmic ASC, medication administration, infection control and more.

**NEW! TASS (07SU1)**
Cristos Ifantides, MD, MBA, Denver, CO  
Sunday, 8:00 am-8:50 am  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1  
Description: This course will describe the cause of Toxic Anterior Segment Syndrome (TASS), symptoms and treatment, and how this syndrome can be avoided. Proper cleaning and disinfection of ophthalmic surgical instruments will also be discussed.
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Corneal Procedures for Today and Tomorrow (04SU5)

Derek DelMonte, MD, Aurora, CO
Sunday, 12:40 pm-1:30 pm

Description: This 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, as well as decision-making about who are good candidates and the timing of intervention will be touched upon.

Financial interest disclosed

NEW! Eye Bank Prepared Tissue: The Surgery Starts Here (11SA4)

Kelly Odell, BS, Portland, OR
Saturday, 11:30 am-12:20 pm

Description: Take an in-depth look at how cornea transplant surgery starts at the eye bank and follow a cornea from donation to transplant. Learn how eye banks screen tissue and rate it for processing and surgical suitability. Explore the various types of tissue processing and preparations available, with a focus on advancements in endothelial keratoplasty preparation.

NEW! Update on Modern Corneal Procedures: DMEK, DSEK, DALK, PKP (14SA7)

Francis Mah, MD, La Jolla, CA
Saturday, 3:00 pm-3:50 pm

Description: This course will briefly review the history of the various corneal procedures, the indication for the various procedures, as well as surgical technique and post-op management.

ADVANCED

Corneal Cross-Linking (07SU4)

Derek DelMonte, MD, Aurora, CO
Sunday, 11:30 am-12:20 pm

Description: This lecture will discuss the scientific value of cornea cross-linking treatment of keratoconus eye disease. It will describe how these corneal anchors prevent the cornea from bulging and becoming steep and irregular. A history of keratoconus, previous treatment and surgical options, diagnostic testing and CXL procedure will be discussed.

Keratoconus and the Other Corneal Ectasias: Update for Technicians (04SA6)

Deborah Jacobs, MD, Needham Heights, MA
Saturday, 1:50 pm-2:40 pm

Description: This course will review advances in the diagnosis and treatment of keratoconus, pellucid marginal degeneration, keratoglobus and keratoectasia.

Financial interest disclosed

Surgical Management of Severe Ocular Surface Disease (07SU2)

Charles Bouchard, MD, Hines, IL
Sunday, 9:10 am-10:00 am

Prerequisite: Knowledge of common surgical procedures of the cornea (corneal transplantation), conjunctiva (flaps) and eyelids (mucus membrane grafts).

Description: This course will cover the basics of a wide variety of surgical procedures used in the management of severe ocular surface disease. Indications, techniques, outcomes and complications will be discussed.

8. Glaucoma

NEW! Role of the Ophthalmic Assistant in Office Management of Patients with Glaucoma (14SA6)

Neil Choplin, MD, San Diego, CA
Saturday, 1:50 pm-2:40 pm

Description: This course is designed to help the ophthalmic assistant understand the basic concepts of glaucoma as they apply to preparing the patient for examination. Appropriate screening questions and procedures, such as history taking, specifics of glaucoma medications, visual field testing and optic nerve imaging (including new technology) will be discussed. The role of the ophthalmic assistant in patient education and support will also be discussed.
IJCAHPO Course Descriptions

INTERMEDIATE

Current Concepts in Glaucoma: Management of the Glaucoma Patient (04SA7)
Neil Choplin, MD, San Diego, CA
Saturday, 3:00 pm-3:50 pm
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 include medical, laser and surgical approaches.

NEW! Kahook Dual Blade Goniotomy (10SU1)
Leonard Seibold, MD, Aurora, CO
Sunday, 8:00 am-8:50 am
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

Description: This course will cover the history of MIGS procedures including goniotomy and the development of the Kahook Dual Blade to achieve improved outcomes. The pre-clinical, clinical and post-operative care will be discussed at length.

Financial interest disclosed

NEW! New Glaucoma Surgeries: Understanding MIGS (07SA4)
Howard Barnebey, MD, Bellevue, WA
Saturday, 11:30 am-12:20 pm
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

Description: This course will provide a description of the evolution of MIGS and the gap these procedures fill. It will discuss how the different procedures work and what is involved in post-op care.

Financial interest disclosed

9. Oculoplastics

INTERMEDIATE

Ocular Trauma and Management (08SU3)
Femida Kherani, MD, FRCSC, Dipl. ABO, Burnaby, BC Canada
Amin Kherani, MD, Calgary, AB Canada
Sunday, 10:20 am-11:10 am
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! The One-Eyed Exam: Issues with the Anophthalmic Patient (05SA3)
C. Robert Bernardino, MD, Carmel, CA
Saturday, 10:20 am-11:10 am
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

Description: This course will provide an overview on how to examine, evaluate and identify basic issues in the anophthalmic patient.

10. Retina

BASIC

NEW! Why We Ask What We Ask: Correlating Signs & Symptoms with Retinal Diseases (13SU5)
Christina Weng, MD, MBA, Houston, TX
Sunday, 12:40 pm-1:30 pm
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1

Description: This lecture will use elements of the history (e.g., flashes/floaters, metamorphopsia, eye pain, etc.) as a launching pad into discussion of some common retinal diseases (e.g., retinal detachment, posterior vitreous detachment, epiretinal membrane). A review of each common pathology will then be provided, and a brief overview of treatment for each disease state will also be given.

Financial interest disclosed

INTERMEDIATE

NEW! Endophthalmitis Prevention (10SU2)
Neal Shorstein, MD, Oakland, CA
Sunday, 9:10 am-10:00 am
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

Description: This course will discuss chemoprophylaxis and other ways to prevent infection.

Updated Guidelines for Intravitreal Injections (02FR1)
Ashvini Reddy, MD, Oklahoma City, OK
Friday, 8:00 am-8:50 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.

NEW! Uveitis (02FR2)
Ashvini Reddy, MD, Oklahoma City, OK
Friday, 9:10 am-10:00 am
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1

Description: An introductory lecture to familiarize technicians and providers with the assessment and management of uveitis.

ADVANCED

Diabetic Retinopathy: Learn to be a Certified Ophthalmic Imaging Assistant (15SA67)
Donald Fong, MD, Baldwin Park, CA
Lupe Cisneros, COA, South Gate, CA
Bobek Modjatshedi, MD, Baldwin Park, CA
Jeremy Shaw, MD, Baldwin Park, CA
Andrea Wong, MHA, Baldwin Park, CA
Saturday, 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.
Gene Therapy (06SA6)
Abdhish Bhavsar, MD, Minneapolis, MN
Saturday, 1:50 pm-2:40 pm
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: 2019 and Beyond (06SA7)
Dhar Dhanda, MD, FRCSC, New Westminster, BC Canada
Saturday, 3:00 pm-3:50 pm
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. Highlights will include: current and future treatments such as stem cells, implants, eye drops and injections.

11. Refractive and Cataract Surgery

Evaluating Patients for Cataract Surgery (09SU3)
Darby Miller, MD, MPH, Jacksonville, FL
Sunday, 10:20 am-11:10 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.

NEW! Intraocular Lenses (IOLs): Current Platforms and Future Technologies (07SU3)
Vasudha Panday, MD, San Antonio, TX
Sunday, 10:20 am-11:10 am
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: This course will cover single piece IOLs in use in the United States. Toric, multifocal and extended depth of focus IOLs will be covered, as well as new and emerging IOL technologies.

NEW! Surgical Management of Astigmatism (08SU7)
Jonathan Rubenstein, MD, Chicago, IL
Sunday, 3:00 pm-3:50 pm
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: This course will discuss pre- and post-operative evaluation for astigmatism management. It will also discuss intraoperative assessment and intraoperative management of astigmatism.

NEW! Understanding Small Incision Lenticule Extraction (10SA3)
Cheryl Padden, MS, COA, Harveys Lake, PA
Saturday, 10:20 am-11:10 am
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: This course will demonstrate the newly approved FDA laser vision correction procedure, SMILE, from a technician’s point of view and compare and contrast with other femtosecond technology. It will also inform technicians on how to best educate patients and how to communicate clear expectations during post-operative recovery.


NEW! Neuroimaging in Ophthalmology (09SU1)
Prem Subramanian, MD, PhD, Aurora, CO
Sunday, 8:00 am-8:50 am
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2
Description: Patients often present for eye exams because of headaches or other neurological concerns. What is the role of neuroimaging in evaluating patients with eye problems? In addition, what prompts the eye care provider to consider obtaining neuroimaging studies? This course will address the different types of studies that can be performed, when they should be ordered and the urgency of doing so. The instructor will also show abnormal findings that correlate with different visual and neurological disorders that patients seen by ophthalmic technical personnel may have.
IJCAHPO Course Descriptions

**Neuro-Ophthalmology Testing (02FR4)**
Aljoeson Walker, MD, Charleston, SC  
Friday, 11:30 am-12:20 pm  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:1  
Description: The roles of MRI, CT, VEP, OCT, visual fields and color plates in neuro-ophthalmology will be discussed.

**Which is the Neuro-Ophthalmic Emergency? (04SU4)**
Jane Portnoy, MD, Philadelphia, PA  
Sunday, 11:30 am-12:20 pm  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1  
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! Cranial Nerve Palsies (10SA4)**
Steven Newman, MD, Charlottesville, VA  
Saturday, 11:30 am-12:20 pm  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1  
Description: This course will feature a presentation of interesting cases of cranial neuropathies with pearls and tips for the technician.

**Functional Vision Loss: The Cases that Haunt Us (04SU3)**
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.

**Pupil Cases: When to Worry, When to Watch (06SU3)**
Andrew Lee, MD, Houston, TX  
Hilary Beaver, MD, Houston, TX  
Sunday, 10:20 am-11:10 am  
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.

**Wacky Eye Movements: Dangerous, Debilitating or Dubious? (06SU1)**
Karl Golnik, MD, MEd, Blue Ash, OH  
Sunday, 8:00 am-8:50 am  
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 opsoclonus, myasthenia, oculus neuromyotonia and spasm of the near reflex will be covered and illustrated with numerous videos.

13. Pediatrics

**Introductory Strabismus (04SA4)**
Lisa Vanover, COMT, OSC, Grove City, OH  
Saturday, 11:30 am-12:20 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 (10SU7)**
Emily Remick, COT, Farmington Hills, MI  
Sunday, 3:00 pm-3:50 pm  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:1  
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.

**Identifying and Reporting Child Abuse in the World of Ophthalmology (08SU5)**
Brian Forbes, MD, PhD, Philadelphia, PA  
Sunday, 12:40 pm-1:30 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1  
Description: This course will review the physical and mental findings ophthalmic personnel may encounter as a health care professional. Additionally, it will describe the ocular findings most commonly associated with child abuse and the impact on vision and ocular health. It will address specific reporting requirements and how to make a report.

**Red Eye in Pediatrics: Nuisance or Life Threatening? (10SU4)**
Steven Lichtenstein, MD, FAAP, FACS, FAAO, Peoria, IL  
Sunday, 11:30 am-12:20 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

**New Thoughts on Amblyopia Treatment: The PEDIG Studies (09SA5)**
William Astle, MD, FRCS, Dipl. ABO, Calgary, AB Canada  
Saturday, 12:40 pm-1:30 pm  
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

**NEW! Ocular Toxicity from Systemic Medications (04SU6)**
Komal Desai, MD, Leawood, KS
Sunday, 1:50 pm-2:40 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.

**NEW! AIDS and the Ophthalmic Practice (14SA2)**
Charles Slonim, MD, Tampa, FL
Saturday, 9:10 am-10:00 am
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.

**NEW! Update on Amblyopia, Pediatric Cataract, and Adult Strabismus (04SU2)**
Matthew Gearinger, MD, Rochester, NY
Sunday, 9:10 am-10:00 am
Credits: 1 A IJCAHPO, CEP: CABRN-1

Description: This course will outline the evidenced-based treatment of amblyopia, the differences between pediatric and adult cataract, and appropriate expectations for patients with adult strabismus.

**NEW! Thyroid Eye Disease (05SU1)**
Rachid Aouchiche, MD, FACS, Baltimore, MD
Sunday, 8:00 am-8:50 am
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1

Description: This course will review the various clinical presentations of thyroid eye disease and updates on methods of management from a practical standpoint.

**NEW! Interesting Cases in Ocular Oncology (04SU7)**
Komal Desai, MD, Leawood, KS
Sunday, 3:00 pm-3:50 pm
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1

Description: This course will discuss interesting cases in ocular oncology, including FA and B-scan/UBM findings. It will include an in-depth discussion of what the technician should be evaluating for, prior to the patient seeing the ophthalmologist, and when to refer the patient. We will address anterior segment lesions in the iris, CS and posterior segment lesions in the choroid. Iris melanomas, vascular malformations, choroidal metastasis, primary uveal melanomas and interesting CHRPE-like lesions will be some of the cases discussed.

**NEW! Ophthalmology Through the Eyes of a Microscope: Ocular Histology (14SA3)**
Hon-Vu Duong, MD, Las Vegas, NV
Saturday, 10:20 am-11:10 am
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2

Description: Histology is the study of tissue and in this case, we will examine the tissues that make up the eye. This course will first address the fundamentals of histology: fixation, staining and how the cells that make up the tissues look underneath the microscope. This is followed by examining the three layers that make up the globe along with extracoical tissues, e.g., lacrimal glands and eyelids.

**NEW! Introduction to Contact B-Scan Ultrasonography (EY5)**
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON Canada
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1

Prerequisite: This introductory course is being offered in advance of the program 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.

**NEW! Introduction to UBM (EY8)**
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON Canada
Credits: 1 A IJCAHPO

Prerequisite: This introductory course is being offered in advance of the program 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 be reviewed.

**NEW! Ocular Toxicity from Systemic Medications (04SU6)**
Komal Desai, MD, Leawood, KS
Sunday, 1:50 pm-2:40 pm
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:2

Description: This course will discuss findings associated with ocular damage and side effects from common systemic medications.

**NEW! Ocular Toxicity from Systemic Medications (04SU6)**
Komal Desai, MD, Leawood, KS
Sunday, 1:50 pm-2:40 pm
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:2

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Komal Desai, MD, Leawood, KS
Sunday, 1:50 pm-2:40 pm
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Komal Desai, MD, Leawood, KS
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Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:2

Description: This course will discuss findings associated with ocular damage and side effects from common systemic medications.

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Komal Desai, MD, Leawood, KS
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Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:2

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Komal Desai, MD, Leawood, KS
Sunday, 1:50 pm-2:40 pm
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:2

Description: This course will discuss findings associated with ocular damage and side effects from common systemic medications.

**NEW! Ocular Toxicity from Systemic Medications (04SU6)**
Komal Desai, MD, Leawood, KS
Sunday, 1:50 pm-2:40 pm
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:2

Description: This course will discuss findings associated with ocular damage and side effects from common systemic medications.
Training program scholarships and continuing education and certification grants given by the JCAHPO Foundation

Angiography (15SU6) compares the anterior chamber angle depth with the thickness of retinal pathology imaged with fluorescein and OCT angiography.

Introduction to Ultrasound Biometry (EY3) by Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON Canada

- Credits: 1 A IJCAHPO, AOC-NC
- Prerequisite: This introductory course is being offered in advance of the program 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 A-scan biometry used for IOL calculations. Contact biometry will be discussed, but the emphasis will be on the immersion biometry exam. Examination techniques will be reviewed 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.

NEW! Ultrasound Descriptive Interpretation (10SU3) by Maria Bretana, CDOS, Katy, TX

- Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2
- Description: Interpretation of ophthalmic ultrasound images can be challenging. In this course we will discuss ultrasound images with common pathology and the descriptive terminology applied to ultrasonic characteristics. At the completion of this course, attendees will have the knowledge to accurately describe and interpret common ultrasound findings to enhance the clinical assessment.

INTERMEDIATE

Angiography (15SU6) by Mandi Conway, MD, FACS, Sun City, AZ

- Credits: 1 A IJCAHPO, AOC-NC
- 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 Chamber Angle Assessment (11SA6) by Donna DuPont, COMT, OSC, Granbury, TX

- Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2
- Description: This session will focus on assessing the anterior chamber angle using the Van Herick technique. The Van Herick technique compares the anterior chamber angle depth with the thickness of the cornea to determine if it is safe to dilate your patient prior to the doctor’s exam. Anatomy of the anterior chamber angle and aqueous flow will also be discussed.

Anterior Segment Imaging with Retinal Cameras (14SA4) by Timothy Bennett, CRA, FOPS, OCT-C, Hershey, PA

- 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, gonioangiography, IR reflectance, IR miosis and IR pupillography will be covered.

Better One or Two? (05SU2) by Barbara Harris, PA, MBA, COT, OSC, Hickory, NC

- 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.

B-Scan Probe Positioning Protocol for a Comprehensive Screening Ultrasound Exam (09SU2) by Gus Kohn, COT, ROUB, CDOS, CRA, Austin, TX

- 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.

Electrophysiology for Technicians: What is ERG, VEP and EOG? (09SU5) by Xiaosong Zhu, COMT, Wynnewood, PA

- 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. The course will outline these tests, why they are needed and how they are performed. Practical applications of electrophysiology will be reviewed through several case studies.

ADVANCE YOUR CAREER

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800-284-3937 • foundation@jcahpo.org

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IJCAHPO Course Descriptions

For the Love of Lensometry (03FR5)
Faith Race, COT, Newton, NC
Friday, 12:40 pm-1:30 pm Credits: 1 A IJCAHPO, AOC-NC
Description: This course will discuss and demonstrate the use of a manual lensometer. Topics include: focusing the eyepiece, proper spectacle placement, establishing an optical center, neutralizing in plus and minus cylinder, reading multifocal lenses and measuring prism.

OCT Angiography with Cirrus HD-OCT (09SU4)
Connie Mckeehen, CCOA, Spokane, WA
Sunday, 11:30 am-12:20 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

OCT: Anatomy of a Scan (07SA3)
Timothy Bennett, CRA, FOPS, OCT-C, Hershey, PA
Saturday, 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.

NEW! Testing for Premium IOLs: Highlighting the Importance of the Corneal Surface (05SU3)
Sarah Armstrong, CRA, OCT-C, Chapel Hill, NC
Kenneth Cohen, MD, Chapel Hill, NC
Sunday, 10:20 am-11:10 am Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1
Description: Determining the proper premium IOL can only be done with accurate test results. This course will discuss how a surgeon uses the test results to determine which lens to use and the best surgical method based on different types of patients. A special interest in the importance of the posterior corneal surface will be discussed. Tips for acquiring accurate test results will be reviewed.

The Future of Ophthalmic Photography (08SU6)
Mark Maio, FOPS, Alpharetta, GA
Sunday, 1:50 pm-2:40 pm Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1
Description: The medical sub-specialty of ophthalmic photography was formalized by the incorporation of the Ophthalmic Photographers’ Society in 1969 by a group of former biomedical photographers. During the 50 years since, the technology and specialty of ophthalmology has changed dramatically. No longer does ophthalmic photography and imaging use film or have traditional darkrooms to process and print their diagnostic images. Where once a solid background in photography was essential, computer skills or experience in ophthalmology are more the norm. This talk will review the history of ophthalmic photography and imaging to determine how we got here and then look at imaging in the future.
Financial interest disclosed

NEW! Ultrasound Biomicroscopy (UBM) Imaging: A Practical Approach (09SA4)
Maria Ayres, MD, ROUB, CDOS, Ann Arbor, MI
Tanya McClendon, COA, ROUB, CDOS, Ann Arbor, MI
Elizabeth Parrish, COA, ROUB, CDOS, 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 be based on an interactive approach with audiovisual with cine-loop acquisition of animation techniques and presentation of a wide variety of cases. This course will provide a practical and comprehensive review of anterior segment imaging techniques supporting diagnostics.

ADVANCED

NEW! B-Scan: A Review of Tips and Techniques for High-Quality Images (10SU6)
Ashley Alexander, COMT, ROUB, CDOS, Kingston, ON Canada
Sunday, 1:50 pm-2:40 pm Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2
Description: In this course we will discuss the clinical uses for B-scan and review procedure standards. Examples of different pathologies will be used to demonstrate the importance of particular techniques that can be used to obtain high-quality diagnostic images.

Clinical Correlation of Fluorescein Angiography, OCT and OCT-A (14SA5)
Frank LaFranco, MD, Skokie, IL
Saturday, 12:40 pm-1:30 pm Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1
Description: The clinical correlation of fluorescein angiogram findings, OCT and OCT-A results in common retinal disorders will be discussed. Attendees will be able to understand and recognize common disorders of the retina and interpret fluorescein results in retinal disease.

The Dawn of OCT-A: Is Sodium Fluorescein Angiography Dead? (10SA7)
Denice Barsness, COMT, ROUB, CDOS, CRA, San Francisco, CA
Saturday, 3:00 pm-3:50 pm Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1
Description: This course will provide a broad overview of OCT-A technology, including its applications and limitations. Case studies comparing conventional fluorescein angiography with OCT-A will be presented.
Financial interest disclosed

NEW! UGH: I Got a Feeling (09SA2)
Tanya McClendon, COA, ROUB, CDOS, Ann Arbor, MI
Maria Ayres, MD, ROUB, CDOS, Ann Arbor, MI
Saturday, 9:10 am-10:00 am Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1
Description: A normal anatomy refresher will give clear understanding with UBM. Mechanism causing UGH (Uveitis Glaucoma Hyphema) will be discussed. A case study will be reviewed and discussed to explain imaging of UGH and what is needed in future exams.
NEW! Ultrasound for Vitreoretinal Disorders: Practical Pearls (09SA3)
Maria Ayres, MD, ROUB, CDOS, Ann Arbor, MI
Tanya McClendon, COA, ROUB, CDOS, Ann Arbor, MI
Elizabeth Parrish, COA, ROUB, CDOS, Petersburg, MI
Saturday, 10:20 am-11:10 am  Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: This course will provide a practical review of ophthalmic A- and B-scan ultrasound of the posterior segment with emphasis on vitreous, retina and choroid. The sonographic features of the vitreoretinal disorders will be discussed. Topics will include retinal detachment, ciliochoroidal effusion, pediatric retinal disorders, endophthalmitis, retinochoroidal tumors and ocular trauma. This will be an interactive course with audio-visual, with cine-loop acquisition of examination techniques and a wide variety of vitreoretinal pathologies.

Visual Field Testing (09SA7)
Suzanne Hansen, MEd, COMT, OSC, Frisco, TX
Saturday, 3:00 pm-3:50 pm  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 for more reliable results for your physician. Methods of visual field testing, key terminology and 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.

17. Instruments and Specialized Tests

BASIC
Introduction to Corneal Topography (EY10)
Aaron Shukla, PhD, COMT, (F)ATPO, Saint Paul, MN
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2
Prerequisite: This introductory course is being offered in advance of the program 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 Keratometry (EY1)
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON Canada
Credits: 1 A IJCAHPO, AOC-NC
Prerequisite: This introductory course is being offered in advance of the program 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 both soft and rigid contact lenses, calculating 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.

Introduction to Practical Refraction: Minus Cylinder (EY6)
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON Canada
Credits: 1 A IJCAHPO, AOC-C
Prerequisite: This introductory course is being offered in advance of the program 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 Practical Refraction: Plus Cylinder (EY7)
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON Canada
Credits: 1 A IJCAHPO, AOC-C
Prerequisite: This introductory course is being offered in advance of the program 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 (EY4)
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON Canada
Credits: 1 A IJCAHPO, AOC-NC
Prerequisite: This introductory course is being offered in advance of the program 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.
Financial interest disclosed

Introduction to Tonometry (EY2)
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON Canada
Credits: 1 A IJCAHPO, AOC-NC
Prerequisite: This introductory course is being offered in advance of the program 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 (EY9)
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON Canada
Credits: 1 A IJCAHPO
Prerequisite: This introductory course is being offered in advance of the program 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.

NEW! Slit Lamp (11SA7)
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON Canada
Saturday, 3:00 pm-3:50 pm
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1
Description: This course will start by covering the anatomy of the slit lamp and how it works. The lighting techniques will be discussed including direct and indirect illumination techniques. Each lighting technique discussed will include clinical photos to illustrate how the different lighting techniques can be used to illustrate normal anatomy of the eye and different abnormalities.
## IJCAHPO Course Descriptions

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

#### INTERMEDIATE

**Specialty Contact Lenses in Ophthalmology (10SA6)**

Buddy Russell, COMT, FCLSA, ABOC, NCLEC, Loganville, GA  
Saturday, 1:50 pm-2:40 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1  

**Description:** Patients often seek out 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? (08SA6)**

Sergina Flaherty, COMT, OSC, CTC, (F)ATPO, Spring Branch, TX  
Saturday, 1:50 pm-2:40 pm  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1  

**Description:** This course will provide participants with many tips and techniques to troubleshoot returning patients who are dissatisfied with their new glasses or prescription. Various scenarios and solutions will be presented.

### 19. Visual Assessment and Therapy

#### INTERMEDIATE

**Pupils: What is Normal and What is Not (06SA3)**

Sharon Alamalhodaei, COMT, OSC, Palm Coast, FL  
Ashley White, COT, OSC, Newnan, GA  
Saturday, 10:20 am-11:10 am  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1  

**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.

**RAPD: How to Do It and What It Means (05SU6)**

Jade Schiffman, MD, FAAO, FAAN, Houston, TX  
Sunday, 1:50 pm-2:40 pm  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1  

**Description:** An 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.

### 20. Low Vision/Treatment

#### BASIC

**Identifying and Assisting the Patient with Low Vision (15SU5)**

John Shepherd, MD, Omaha, NE  
Sunday, 12:40 pm-1:30 pm  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1  

**Description:** With the aging of the population, the number of low vision patients is on the rise. Many patients remain unaware of the range of low vision services available to them, and many eye care practitioners struggle with how to provide the time-intensive services that these patients require to truly meet their needs. This presentation will assist Allied Ophthalmic Personnel in identifying the patient likely to benefit from low vision rehabilitation services. It will highlight practical ways for any office to provide basic services for low vision patients, but stressing the advantages of utilizing a multi-disciplinary low vision practice for providing comprehensive services.

### 21. Masters Courses

#### MASTERS

**Clinical Trials Update 2019 (13SA3)**

William Mieler, MD, Winnetka, IL  
Saturday, 10:20 am-11:10 am  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:2  

**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.

**Extended Depth of Focus Optics in the Symfony Intraocular Lens (13SU4)**

Rahul Pandit, MD, Houston, TX  
Sunday, 11:30 am-12:20 pm  
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 available options.

**Facial Paralysis and Facial Dystonias (13SA6)**

Vladimir Yakopson, MD, FACS, Tacoma, WA  
Saturday, 1:50 pm-2:40 pm  
Credits: 1 A IJCAHPO, AOC-C, 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.
NEW! Hot Topics in Neuro-Ophthalmology: TIAs, Optic Neuritis and Temporal Arteritis (13SU12)
Jade Schifman, MD, FAAO, FAAN, Houston, TX
Rosa Tang, MD, FAAO, MPH, MBA, Houston, TX
Sunday, 8:00 am-10:00 am
Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2
Description: This course will review 3 hot topics that are important to know as treatment must be initiated rapidly for all these conditions for good visual outcomes. 1. Transient monocular or binocular vision loss as a manifestation of transient ischemic attacks (TIAs). We will review the relevant anatomy, diagnostic cause and the AAO recommendation for these conditions. 2. The different faces of optic neuritis from multiple sclerosis to more serious causes requiring different treatment, including NMO spectrum disorders of anti-Aquaporin 4 antibody (AQP4) and anti-Myelin Oligodendrocyte antibody (MOG). You will learn clinical skills, procedural clues and how to manage. 3. Arteritic Anterior Ischemic Optic Neuropathy in classic and occult disease. You will learn how not to be fooled by the various presentations of this disease which is a common cause of misdiagnoses in the elderly and how to avoid this.

Investigational Pharmacotherapy for Chorioretinal Vascular Conditions (13SU3)
Michael Stewart, MD, Jacksonville, FL
Sunday, 10:20 am-11:10 am
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2
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.

Master Mystery: Glaucoma Case Investigations (02FR7)
Eydie Miller-Ellis, MD, Philadelphia, PA
Mildred Olivier, MD, Hoffman Estates, IL
Ahmara Ross, MD, PhD, Philadelphia, PA
Sarwat Salim, MD, FACS, Brookline, MA
Terri Young, MD, MBA, Madison, WI
Friday, 3:00 pm-3:50 pm
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 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) The dark side of glaucoma surgery: a case study of blebitis; 2) The masquerading optic nerve; 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.

NEW! B-Scan Ultrasonography: Ultimate Scanning Techniques (11SA2)
Gus Kohn, COT, ROUB, CDOS, CRA, Austin, TX
Saturday, 9:10 am-10:00 am
Credits: 1 A IJCAHPO
Description: This Masters-level course is intended to provide a comprehensive look at the process and techniques of ultrasound imaging for experienced imaging personnel. Faculty will discuss how to systematically screen and scan the globe, emphasizing probe positioning and 3-dimensional thinking to understand the effect of scanning. A live exam demonstration will give a thorough echographic view of the intraocular structures of the eye.
22. Sub-Specialty Sessions

**BASIC**

**Scribing (12SU56)**

Martha Tello, COMT, Aventura, FL  
Roel Chapa, Jr., COT, OSA, San Antonio, TX  
Andrea Grant, COMT, OSC, Lynden, WA  
Lina Sanchez, COT, Glassboro, NJ  
Sunday, 12:40 pm-2:40 pm  
Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1  
**Description:** This session will kick start your scribing career the “write way!” The course will give an overview of the best practices and the importance of scribes in clinical practice. Learn about the role of a scribe, how to scribe, documentation and coding. Experts will address important scribing techniques for efficiency, top scribing errors, tips to prevent and correct errors and improving the quality of EHR documentation. Faculty will provide scribing demonstrations and open the session for audience questions.  
**Financial interest disclosed**

**NEW! Understanding Ocular Tumors—You Can’t Miss Them (06SA2)**

Carol Shields, MD, Philadelphia, PA  
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:** There are several ocular tumors that can manifest in and around the eye. Some tumors can affect central vision and some can affect peripheral vision. Some tumors can destroy the eye and some can lead to death. In this course, we will review the various tumors including clinical features, diagnosis, treatment strategies, and, most importantly, we will emphasize keys to not missing them.

**NEW! Imaging (12SA23)**

Denise Barsness, COMT, ROUB, CDOS, CRA, San Francisco, CA  
Dirk-Uwe Bartsch, PhD, La Jolla, CA  
Ashley Brito, CRA, OCT-C, Boston, MA  
Denise Cunningham, CRA, FOPS, Takoma Park, MD  
Sandor Ferenczy, CRA, OCT-C, Philadelphia, PA  
James Gilman, CRA, FOPS, Salt Lake City, UT  
Ethan Priel, FOPS, Benei-Brak, Israel  
Saturday, 9:10 am-11:10 am  
Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1  
**Description:** Ophthalmology’s imaging world is on a fast-track of changing technologies. This session will present imaging modalities ranging from current to leading-edge future technologies. This session will cover pathologies, imaging modalities and techniques such as fundus photography, fluorescein angiography, optical coherence tomography and swept source OCT (SS-OCT).

**NEW! Oculoplastics (12SU34)**

Elizabeth Palkovacs, MD, FRCSC, San Francisco, CA  
C. Robert Bernardoino, MD, Carmel, CA  
Jonathan Dutton, MD, PhD, FACS, Chapel Hill, NC  
Donald Hudak, MD, West Chester, OH  
Jackson Lever, MD, Ogden, UT  
Sunday, 10:20 am-12:20 pm  
Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1  
**Description:** This sub-specialty session will address the latest treatments and surgical procedures that are typically seen in an oculoplastic practice. Faculty will present surgical reconstruction of the eye and its associated structures covering specific conditions and diseases, such as eyelid and facial lesions and cancers. An important session will cover tips for the technician to use in dealing with difficult or unhappy oculoplastic patients.

**Practice Management (12SA45)**

Christine McDonald, CQA, ROUB, OSC, COE, Fenton, MO  
Tracy Hodo, CQA, OSC, Arlington, TX  
Brenda Adams, COT, Arlington, TX  
Laurie Brown, MBA, COMT, COE, OSA, Marana, AZ  
Chris Dean, CMHP, NCP, Saint Cloud, MN  
Cynthia Diogo, COT, OSC, OSA, Northumberland, PA  
Saturday, 11:30 am-1:30 pm  
Credits: 2 A IJCAHPO  
**Prerequisite:** A minimum of two years in the ophthalmic practice.  
**Description:** The technician’s understanding and leadership are critical in increasing practice productivity and profitability! This session will focus on practice management trends for a high-functioning practice. The session will begin with developing a great eye care team: training, evaluation and increasing staff morale and empowerment. The session will also address balancing clinical efficiency with quality care using best practices. Topics include: 1) chart documentation; 2) efficient patient scheduling for patient satisfaction, as well as maximizing physician and staff productivity; 3) security systems – from patient information, cybersecurity to staff security; 4) best EHR practices; and 5) current government regulations: MIPS/MACRA, compliance, OSHA, HIPAA and how to get staff on board. Lessons learned, cases and examples will be shared, as well as the presenters will participate in a question and answer session.
IJCAHPO Course Descriptions

Retina (12SU12)
Michael Stewart, MD, Jacksonville, FL
Kelly Mitchell, MD, Lubbock, TX
Edward Lim, MD, Branford, CT
Lawrence Morse, MD, Sacramento, CA
Sunday, 8:00 am-10:00 am
Credits: 2 A IJCAHPO, CEP: CABRN-1
Prerequisite: A minimum of one-year 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 include: advances in treatment of diabetic retinopathy; Swept Source Optical Coherence Tomography; advances in vitreoretinal surgery; genetics in AMD; vein occlusions; and the latest in retinal surgery procedures.

NEW! Ultrasound (12SA67)
Brandy Lorek, BS, ROUB, CDOS, Painesville, OH
Maria Bretana, CDOS, Katy, TX
Laurie Lau-Sickon, ROUB, CDOS, Rochester Hills, MI
Tanya McClendon, COA, ROUB, CDOS, Ann Arbor, MI
Saturday, 1:50 pm-3:50 pm
Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2
Description: This sub-specialty session is an advanced course in ophthalmic ultrasound; attendees should be familiar with B-scan, standardized A-scan, UBM, scanning techniques and the principle behind the examination techniques. Faculty will present case presentations highlighting pathology and examination techniques used to help identify the pathology. Group participation will be encouraged during the discussion period following each case. Emphasis of this course will be on identifying the ultrasonic features of different ocular pathology.

23. Learning Labs

BASIC

Anatomy and Dissection of the Eye
Frank Scribbick, MD, Fort Sam Houston, TX
Refer to Day-at-a-Glance for course times
Credits: 1 A IJCAHPO, AOC-C
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, chorois and sclera. Following the demonstration, participants will have an opportunity to dissect a pig’s eyeball.

NEW! Clinical Skills (17SA2W)
Aaron Shukla, PhD, COMT, (F)ATPO, Saint Paul, MN
Saturday, 9:10 am-10:00 am
Credits: 1 A IJCAHPO
Description: This lab will provide attendees with an opportunity to practice pupil assessment, visual acuity assessment and color vision testing skills.

Comprehensive Lensometry Lecture and Lab (20SA23W)
Homise Johnson, COMT, Rochester, NY
Saturday, 9:10 am-11:10 am
Credits: 2 A IJCAHPO, AOC-C
Description: This will be a comprehensive lecture plus hands-on 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.

NEW! Eye Exam in Spanish: Evaluation of the Non-Bilingual Patient (15SU12W)
Maria DeCain, COA, Washington, DC
Anna Kiss, BSc, COMT, OSC, Alexandria, VA
Sunday, 8:00 am-10:00 am
Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1
Description: This lab will provide an overview of the evaluation of a Spanish speaking patient. Attendees will learn how to welcome patients, take their history and provide patient instructions for a basic exam in Spanish.

NEW! History Taking: An Essential Skill for a Super Tech (17SA3W)
Susan Busch, BA, COMT, Sarasota, FL
Saturday, 10:20 am-11:10 am
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: Taking a detailed patient history is an essential skill for a good ophthalmic medical examination. History taking is a skill that tests both your communication abilities and your knowledge about what to ask. This interactive lab will provide the new technician with the proper steps and questions to ask to obtain a good patient history in assisting the ophthalmologist with diagnostic testing. Mastering this skill provides foundation techniques to put patients at ease and to be the super tech that ophthalmologists need for an efficient patient exam.

Introduction to the IOL Master (Optical Coherence Biometry) (26SA45W)
Robert Emerson, COA, Rancho Cucamonga, CA
Saturday, 11:30 am-1:30 pm
Credits: 2 A IJCAHPO
Prerequisite: Knowledge of basic office procedures and understanding of steps needed for IOL calculation.
Description: This lab will be an introduction to optical coherence biometry and its use in calculating IOLs. It will cover the operation of the IOL Master for measuring axial lengths, Ks and ACD, and database management of the instrument. There will be time for hands-on experience with the instrument. Zeiss equipment will be used.
Financial interest disclosed
IJCAHPO Course Descriptions

Keratometry
Sarah Gill, COT, OSC, St. Louis, MO
Eva Kroneker, Encinitas, CA
Lisa Lenig, COMT, OSC, Williamsport, PA
Martin Orozco, Jr., COT, OSC, Moore, OK

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

Prerequisite: The lecture, "Introduction to Keratometry," is required and is offered in advance of the program 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 hands-on lab is recommended for participants who have had less than one year of experience working with the manual and/or automated keratometer. This introductory hands-on lab provides practical experience in the use of the manual and the automated keratometer. Bausch & Lomb keratometers will be provided. Also, 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 (24SU12W)
Aaron Shukla, PhD, COMT, (F)ATPO, Saint Paul, MN
Homise Johnson, COMT, Rochester, NY

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.

NEW! Ophthalmic Math
Aaron Shukla, PhD, COMT, (F)ATPO, Saint Paul, MN
Kenneth Woodworth, Jr., COMT, COE, (F)ATPO, PASOA, Lexington, KY
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON Canada

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

Description: This lab will focus on learning how to perform basic calculations concerned with optics in ophthalmology. Participants will perform basic math including adding and subtracting positive and negative numbers, adding and subtracting in quarters, and dealing with fractions before moving on to perform calculations concerned with the following: diopters and focal lengths, prisms and the conversion of prism diopters to degrees, spherical equivalents, transposition and Prentice’s rule. Worksheets will be provided to practice the calculations, and time within the lab will be set aside for attendees to complete the worksheets with help from the instructors. The lab will finish with the practical application of math in a clinical setting. Such application would include applying spherical equivalent to contact lens fitting or visual field testing, converting radius of curvature to diopters, or converting a spectacle prescription to account for vertex distance.

Overview of Low Vision Devices: Avoid the Pain, Enjoy the Gain! (17SA7W)
Thomas Porter, OD, FAAO, Saint Louis, MO

Saturday, 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 minimize demonstration time and maximize successful patient outcomes.

Financial interest disclosed

Refraction: Minus Cylinder (16SU34W)
Steven Lichtenstein, MD, FAAP, FACS, FAAO, Peoria, IL
Sarah Saile, COT, Tampa, FL

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 program 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, axes 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.
Refraction: Plus Cylinder
James Farmer, MD, FRCSC, FRCP, Kingston, ON Canada
Peter Donshik, MD, West Hartford, CT
Sarah Saile, COT, Tampa, FL
Jeremiah Cooper, COMT, Yukon, OK
Refer to Day-at-a-Glance for course times Credits: 2 A IJCAHPO, AOC-NC
Prerequisite: The lecture, "Introduction to Practical Refraction: Plus Cylinder," is required and is offered in advance of the program 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, axes 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
Barbara Krzeszowski, COT, LPN, OSA, Bushkill, PA
Janae Hines, COA, ROUB, CDOS, Dallas, TX
Refer to Day-at-a-Glance for course times 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 lab 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 gowing, gloving and sterile technique.

Tonometry
Eva Kroneker, Encinitas, CA
Eva Kroneker, Encinitas, CA
Gabriele Ortiz, COA, Aldan, PA
Veronica Pressinger, COT, Poland, OH
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 program 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 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.

UBM
Ashley Alexander, 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 program 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.
**IJCAHPO Course Descriptions**

**Corneal Topography with the Pentacam (16SA45W)**
Erich Mack, LDO, ABO-AC, NCLEC, Arlington, WA
Charles Roberts, Arlington, WA

*Saturday, 11:30 am-1:30 pm*  
Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1

**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

**Exam Skills**

Maria Blackburn, BSc, COMT, ROUB, CDOS, Ottawa, ON Canada
Anna Kiss, BSc, COMT, OSC, Alexandria, VA

*Refer to Day-at-a-Glance for course times*  
Credits: 1 A 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**

Bruce Bailey, COT, Valley Springs, CA

*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 lab 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

**Introduction to the LENSTAR Optical Biometry (24FR23W)**

Kerri Menard, COA, OSC, Chester, NH
Cara Fletcher, COA, Loveland, OH

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

**Prerequisite:** Basic understanding of LENSTAR concepts and IOL calculations.

**Description:** This intermediate lab will demonstrate and teach the clinical applications of the LENSTAR optical biometer. The course will cover the following principles: 1) proper operator techniques; 2) review of data analysis and standard deviations; 3) IOL calculations and formulae; 4) the Dense Cataract Measurement Mode; 5) an overview of the optional Toric Surgical Planner and T-cone; and 6) hands-on experience with the LENSTAR.

Financial interest disclosed

**NEW! Meibography: Learn from the Lids**

Todd Hostetter, COMT, FCLSA, CRA, (F)ATPO, Lancaster, PA

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

**Description:** Meibography can be used to look more acutely at the normal versus abnormal lid anatomy and when necessary, differentiate aqueous-deficient dry eye and evaporative dry eye, most of which is caused by Meibomian Gland Dysfunction (MGD). This lab will discuss meibography as a diagnostic tool in dry eye disease, and provide attendees with hands-on practice with the Meibolab Meibographer for imaging meibomian glands.

Financial interest disclosed

**Neuro-Tech (20SA67W)**

Aaron Shukla, PhD, COMT, (F)ATPO, Saint Paul, MN
Homise Johnson, COMT, Rochester, NY
Ashley White, COT, OSC, Newman, GA

*Saturday, 1:50 pm-3:50 pm*  
Credits: 2 A IJCAHPO, AOC-NC, 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 improve testing outcomes.

**NEW! OCT-A in a Multi-Modal Imaging Approach with the SPECTRALIS (16SU56W)**

Karen McHugh, CRA, Avon, OH

*Sunday, 12:40 pm-2:40 pm*  
Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1

**Description:** This lab will discuss the utilization of optical coherence tomography angiography in combination with the other modalities and tools available on the Heidelberg Engineering SPECTRALIS. The modalities discussed include: infrared, blue reflectance, MultiColor, BluePeak Autofluorescence, fluorescein angiography, indocyanine green angiography and structural OCT.

Financial interest disclosed

**Ocular Motility: Identifying and Measuring Binocular Function (24SU3W)**

Aaron Shukla, PhD, COMT, (F)ATPO, Saint Paul, MN
Homise Johnson, COMT, Rochester, NY

*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 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 (22SA56W)**

Steven Lichtenstein, MD, FAAP, FACS, FAAO, Peoria, IL
David Norath, COT, Saint Louis, MO

*Saturday, 12:40 pm-2:40 pm*  
Credits: 2 A IJCAHPO, AOC-C

**Prerequisite:** “Learning Systems: Retinoscopy and Refinement” lecture is required and is being offered in advance of the program 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 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.


IJCAHPO Course Descriptions

Retinoscopy: Plus Cylinder
Peter Donshik, MD, West Hartford, CT
Steven Lichtenstein, MD, FAAP, FACS, FAAO, Peoria, IL
David Norath, COT, Saint Louis, MO
Refer to Day-at-a-Glance for course times  Credits: 2 A IJCAHPO, AOC-C

Prerequisite:  "Learning Systems: Retinoscopy and Refinement" lecture is required and is being offered in advance of the program 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 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.

NEW!  The View on Scribing
Martha Tello, COMT, Aventura, FL
Roel Chapa, Jr., COT, OSA, San Antonio, TX
Refer to Day-at-a-Glance for course times  Credits: 1 A IJCAHPO

Description:  This lab will be an interactive scribing session that will give the attendees the opportunity to practice recording information and to improve critical thinking. The lab will include guidelines for proper documentation, an exercise to identify training needs and suggestions on how to improve performance.

Slit Lamp Microscopy
Jeremiah Cooper, COMT, Yukon, OK
Maria DeCain, COA, Washington, DC
Anndrea Grant, COMT, OSC, Lynden, WA
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 program 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 is recommended for participants who have little (six months to one year) experience working with the slit lamp microscope. A hands-on lab 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)
Doreen Champagne, COA, Norwich, CT
Norberto Hernandez, COA, Longview, TX
Janae Hines, COA, ROUB, CDOS, Dallas, TX
Stella Maez, COA, OSC, Tucson, AZ
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON Canada
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 program 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 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. Students will have an opportunity to perform A-scan evaluations on each other and learn how the A-scan instrument ‘thinks’ to better interpret the numbers and echo patterns.

NEW!  Visual Acuity Testing for Preverbal Children (20SU2W)
Xiaosong Zhu, COMT, Wynnewood, PA
Sunday, 9:10 am-10:00 am  Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

Description:  The vision exam can be very challenging in pediatric ophthalmology. We will discuss different tools and equipment used for vision testing in very young children. This lab will include practice with Teller Acuity Cards, HOTV match card and opto-kinetic drum. Tips will be shared to help attendees feel confident testing preverbal children.
Advanced IOL Master (26SU34W)
Robert Emerson, COA, Rancho Cucamonga, CA
Sunday, 10:20 am-12:20 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 LENSTAR Optical Biometry (24SA23W)
Kerri Menard, COA, OSC, Chester, NH
Cara Fletcher, COA, Loveland, OH
Saturday, 9:10 am-11:10 am
Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1
Prerequisite: Basic understanding of LENSTAR concepts, operation and IOL calculations.
Description: This advanced lab will demonstrate and teach the clinical applications of the LENSTAR optical biometer. The lab will cover the following principles: 1) review of data analysis and standard deviations; 2) IOL calculations and formulae; 3) the Dense Cataract Measurement Mode; 4) a detailed overview of the optional Toric Surgical Planner; 5) IOL constant optimization; 6) the RBF Post-op Data Export; 7) IOL entry and surgeon template building; 8) pearls for acquiring and reviewing challenging cases; and 9) hands-on experience with the LENSTAR.

Advanced Slit Lamp Examination Techniques
Aaron Shukla, PhD, COMT, (F)ATPO, Saint Paul, 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 present material on: 1) construction and functions of the slit lamp (biomicroscope); 2) illumination-system settings most useful for a typical eye exam in clinic; 3) use in specialized techniques; and 4) proper maintenance and replacing of some slit lamp parts.

Ocular Motility: Approaching Patient Examinations (24SU4W)
Aaron Shukla, PhD, COMT, (F)ATPO, 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.

Optical Biometry and IOL Calculations
Maria Blackburn, BSc, COMT, ROUB, CDOS, Ottawa, ON Canada
Refer to Day-at-a-Glance for course times
Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: This lab is recommended for participants who have experience in refraction, keratometry and optical biometry. Participants will receive hands-on training in retinoscopy, refinement, measure corneal curvature by manual keratometry and capture and interpret optical biometry. The goals of the three skills are to build the relationship among techniques, sharpen technical focus and improve testing outcomes.
My IJCAHPO certification has opened doors that I never thought possible. Each level has brought even more opportunities.”
—Natalie, COMT

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—Natalie, COMT

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**FRIDAY, OCTOBER 11**

- **Color Consistency in Fundus Photography**
- **Gender Neutral Considerations for Professional Development in Ophthalmic Imaging**
- **Top 10 Tips: An Old Dog’s Pearls for Glaucoma Centric OCT**
- **Ophthalmic Imaging Crash Course**
- **Transitioning to SLO-based Imaging**
- **Anterior Segment Fluorescein and ICG Angiography: Technique, Application and Beauty**
- **Hi-Tech Spanish for Photographers**
- **Use of OCT in the Diagnosis and Treatment of Ocular Tumors**
- **Expanding Upon Techniques in Glaucoma Imaging and OCT-A Clinical Observations**
- **Smartphone Ocular Imaging for the Macula, Peripheral Retina and Anterior Segment**
- **Correlation/Discrepancy Between FA & OCT**
- **Why Certify?**
- **History of Retinal Photography**
- **Meibography: New Ways to Image Old Glands**
- **Won’t Get Fooled Again: Surviving the World of OCT Artifacts**
- **OCT-A Interpretation**
- **Vascular Occlusions: Pathophysiology, Pathology, & Current Treatments**
- **Basics of Digital Imaging**
- **Optical Coherence Tomography Angiography (OCT-A) in Ocular Oncology**
- **OCT: Scanning for Surgical Significance**
- **Scientific Paper Session**
- **Award Presentations**

**SATURDAY, OCTOBER 12**

- **Ultra Wide Angle Imaging: Seeing Into the Far Periphery (Lecture & Workshop)**
- **OCT-A Practical Techniques (Lecture & Workshop)**
- **OCT-C Portfolio Preparation**
- **Slit Lamp Photography (Lecture & Workshop)**
- **Why You Need OCT-A in Your Practice**
- **Echographic Differentiation of Intraocular Opacities and Membranes**
- **Corneal Ectasia Imaging and Beyond**
- **Systemic Diseases & Retinal Findings**
- **CRA Portfolio Preparation**
- **Vendor Forum**
- **Standard Techniques of Gonioscopy and Gonioraphy (Lecture & Workshop)**
- **Advanced SD-OCT Techniques (Lecture & Workshop)**
- **Embryology of the Eye**
- **OCT-A Breakout Session**
- **Ophthalmic Anatomy and Physiology**
- **Corneal Imaging Double Header**
- **Jamie Nicholl Symposium: Controversies in Ophth. Photog**
- **50th Anniversary Commemorative Lecture – Ophthalmic Photography, Past and Present**

**SUNDAY, OCTOBER 13**

- **Testing for Premium IOLs with OCT and Topography**
- **Ultrawide Imaging for Oncology**
- **Scanning Laser Ophthalmoscopy Imaging**
- **Advanced Fundus Imaging: Strategies for Clinical and Research Imaging (Lecture & Workshop)**
- **Clinical Applications of Anterior Segment OCT (Lect & WS)**
- **Introduction to Fundus Autofluorescency Imaging**
- **OCT-A and Fundus Photography Breakout Sessions**
- **Ask the Reading Center Panel: Imaging Protocols**
- **The Most Interesting Cases of Ultrasound I Have Seen in the Last 47 Years**
- **ERG Methodology: How to Systematically Perform an ERG (Lecture/Workshop)**
- **Introduction to SD-OCT-Group Discussion**
- **Vendor Forum**
- **Ask the Reading Center Panel: Image Quality & Certification**
- **Clinical Applications of Anterior Segment OCT (Lect & WS)**
- **Introduction to SD-OCT-Group Discussion**
- **Vendor Forum**
- **Ask the Reading Center Panel: Imaging Protocols**
- **Fundamentals in UBM (Lecture & Workshop)**
- **Intro to Fluorescein Angiography (Lecture & Workshop)**
- **Mission Impossible: Making Impossible Imaging Possible**
- **Image Archive and Data Systems for Ophthalmology**
- **OPS Business Meeting, open to all OPS members**

**MONDAY, OCTOBER 14**

- **Animal Imaging: They’ve Saved More Lives Than 911**
- **Optical Coherence Tomography**
- **Comprehensive Ultrasound Series:**
  - Ultrasound Principles*
  - Beginners’ B-Scan: Globe Screen Technique (Lect & Wkshp)*
  - Ultrasound Biomicroscopy Overview*
  - Multimodal Fundus Photo and Ultrasound Correlations*
  - Descriptive B-scan Interpretation: Common Globe Pathology and Differentiation of Findings
- **Imaging to Monitor Response to Treatment: Case Studies & Techniques from a Cornea Specialty Practice**
- **Application of Descriptive Interpretation of FA**
- **Descriptive Interpretation of Fluorescein Conference**
- **Clinical and O.R. Pediatric Ophthalmic Imaging**
- **Slit Lamp Photography: The Smart Way**
- **Molecular Surgery for Vitreoretinal Disease**
- **External Photography**
- **Workup for the Retinal Patient**
- **OCT-A in the Age of Multimodal Imaging-A Welcome Addition**
- **Imaging in Age Related Macular Degeneration**
- **An Amazing Kaleidoscope of Fascinating Eye Facts**
- **Best of the Best**

*New Course

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To secure housing and see details, go to www.aao.org/hotels. Housing for Allied Ophthalmic Personnel opens on June 26.
### Hotels

<table>
<thead>
<tr>
<th>Hotel</th>
<th>Single/Double Starts at*</th>
<th>Approx. Distance**</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Argonaut Hotel</td>
<td>$475</td>
<td>2.1 miles</td>
</tr>
<tr>
<td>2. Axiom</td>
<td>$329</td>
<td>0.5 mile</td>
</tr>
<tr>
<td>3. BEI San Francisco</td>
<td>$319</td>
<td>0.9 mile</td>
</tr>
<tr>
<td>4. Cartwright Hotel Union Square</td>
<td>$259</td>
<td>0.7 mile</td>
</tr>
<tr>
<td>5. Chancellor Hotel on Union Square</td>
<td>$425</td>
<td>0.7 mile</td>
</tr>
<tr>
<td>6. Cliff Royal Sonesta San Francisco</td>
<td>$259</td>
<td>0.8 mile</td>
</tr>
<tr>
<td>7. Courtyard San Francisco Downtown</td>
<td>$343</td>
<td>0.4 mile</td>
</tr>
<tr>
<td>8. Courtyard San Francisco Fisherman’s Wharf</td>
<td>$469</td>
<td>2.0 miles</td>
</tr>
<tr>
<td>9. Courtyard San Francisco Union Square</td>
<td>$282</td>
<td>1.0 mile</td>
</tr>
<tr>
<td>10. Executive Hotel Vintage Court</td>
<td>$332</td>
<td>0.8 mile</td>
</tr>
<tr>
<td>11. Fairmont San Francisco</td>
<td>$355</td>
<td>0.9 mile</td>
</tr>
<tr>
<td>12. Four Seasons Hotel San Francisco</td>
<td>$499</td>
<td>0.3 mile</td>
</tr>
<tr>
<td>13. Galleria Park Hotel</td>
<td>$379</td>
<td>0.5 mile</td>
</tr>
<tr>
<td>14. Grand Hyatt San Francisco</td>
<td>$349</td>
<td>0.6 mile</td>
</tr>
<tr>
<td>15. Handlery Union Square Hotel</td>
<td>$287</td>
<td>0.6 mile</td>
</tr>
<tr>
<td>16. Harbor Court Hotel</td>
<td>$319</td>
<td>0.8 mile</td>
</tr>
<tr>
<td>17. Hilton San Francisco Financial District</td>
<td>$299</td>
<td>0.9 mile</td>
</tr>
<tr>
<td>18. Hilton San Francisco Union Square</td>
<td>$357</td>
<td>0.6 mile</td>
</tr>
<tr>
<td>19. Holiday Inn Express Fisherman’s Wharf</td>
<td>$329</td>
<td>1.9 miles</td>
</tr>
<tr>
<td>20. Holiday Inn Golden Gateway</td>
<td>$277</td>
<td>1.6 miles</td>
</tr>
<tr>
<td>21. Hotel Abri</td>
<td>$311</td>
<td>0.5 mile</td>
</tr>
<tr>
<td>22. Hotel Adagio, Autograph Collection</td>
<td>$329</td>
<td>0.9 mile</td>
</tr>
<tr>
<td>23. Hotel Bijou</td>
<td>$311</td>
<td>0.6 mile</td>
</tr>
<tr>
<td>24. Hotel Carlton</td>
<td>$259</td>
<td>1.2 miles</td>
</tr>
<tr>
<td>25. Hotel Diva</td>
<td>$309</td>
<td>0.7 mile</td>
</tr>
<tr>
<td>26. Hotel Emblem</td>
<td>$357</td>
<td>0.8 mile</td>
</tr>
<tr>
<td>27. Hotel Fusion</td>
<td>$259</td>
<td>0.5 mile</td>
</tr>
<tr>
<td>28. Hotel G</td>
<td>$309</td>
<td>0.7 mile</td>
</tr>
<tr>
<td>29. Hotel Griffon, a Greystone Hotel</td>
<td>$379</td>
<td>0.8 mile</td>
</tr>
<tr>
<td>30. Hotel Kabuki</td>
<td>$325</td>
<td>1.8 miles</td>
</tr>
<tr>
<td>31. Hotel Nikko San Francisco</td>
<td>$369</td>
<td>0.5 mile</td>
</tr>
<tr>
<td>32. Hotel Spero</td>
<td>$299</td>
<td>0.7 mile</td>
</tr>
<tr>
<td>33. Hotel Triton</td>
<td>$279</td>
<td>0.6 mile</td>
</tr>
<tr>
<td>34. Hotel Union Square</td>
<td>$309</td>
<td>0.5 mile</td>
</tr>
<tr>
<td>35. Hotel Vertigo</td>
<td>$336</td>
<td>1.1 miles</td>
</tr>
<tr>
<td>36. Hotel Vitale</td>
<td>$489</td>
<td>0.9 mile</td>
</tr>
<tr>
<td>37. Hotel Whitcomb</td>
<td>$289</td>
<td>1.1 miles</td>
</tr>
<tr>
<td>38. Hotel Zelos</td>
<td>$379</td>
<td>0.3 mile</td>
</tr>
<tr>
<td>39. Hotel Zephyr</td>
<td>$379</td>
<td>1.9 miles</td>
</tr>
<tr>
<td>40. Hotel Zeppelin</td>
<td>$309</td>
<td>0.8 mile</td>
</tr>
<tr>
<td>41. Hotel Zetta</td>
<td>$359</td>
<td>0.4 mile</td>
</tr>
<tr>
<td>42. Hotel Zoe</td>
<td>$425</td>
<td>1.9 miles</td>
</tr>
<tr>
<td>43. Huntington Hotel</td>
<td>$399</td>
<td>1.1 miles</td>
</tr>
<tr>
<td>44. Hyatt Centric Fisherman’s Wharf</td>
<td>$399</td>
<td>1.9 miles</td>
</tr>
</tbody>
</table>

*Hotel rates are subject to change. Tax is currently 16.25%-16.75%; subject to change. Hotel room rates include an $8 fee to partially defray shuttle costs.

**Approximate distance is from the Moscone Convention Center.
HILTON SAN FRANCISCO UNION SQUARE
ROOM ASSIGNMENTS

LOBBY LEVEL
1. Plaza A & B
   - IJCAHPO Courses

BALLROOM LEVEL
2. Imperial Ballroom A & B—Sat 6:30 am-5:00 pm/
   Sun 6:30 am-4:30 pm
   - IJCAHPO/CLSA Attendee Registration
   - IJCAHPO Resource Center
   - IJCAHPO Certification Booth
   - IJCAHPO/CLSA Faculty Lounge & Speaker Ready Room

3. Continental Ballroom
   - IJCAHPO Courses: 1-9
   - IJCAHPO Stein Lecture: 4 & 5
   - IJCAHPO Exhibits: Foyer East Lounge

4. Franciscan A-C
   - IJCAHPO Courses

5. Yosemite A-C
   - IJCAHPO Courses

FOURTH FLOOR
6. Union Square Meeting Rooms
   - IJCAHPO Learning Labs: 1-6, 10-11, 14-22
   - ATPO Practical Review Sessions: 5-6 & 21

7. Union Square Foyer—Fri 6:30 am-4:00 pm
   - IJCAHPO Limited Attendee Registration & Learning Lab Faculty Check-In
Parc 55 San Francisco
55 Cyril Magnin Street, San Francisco, CA 94102
**Parc 55 San Francisco**  
55 Cyril Magnin Street, San Francisco, CA 94102

**Level Four**

- **Cyril Magnin Ballroom**
  - UCNAPO Capstone Lectures
  - ATPO Scientific Sessions/Grand Rounds
  - ATPO Super Tech

- **Stockton**
  - Fri 6:30 am-4:00 pm
  - UCNAPO Fri Attendee Registration & Capstone Faculty Check-In

- **Mission**
  - ATPO Train The Trainer
  - CLSA Contact Lens Symposium

**Level Two**

1. **Sutro**
   - ATPO Past Presidents’ Breakfast

2. **Embarcadero**
   - UCNAPO Courses
   - Allergan Reception

3. **Market Street**
   - UCNAPO Learning Labs

4. **Mason**
   - ATPO Written Review Sessions

5. **Powell**
   - ATPO Written Review Sessions

**Room Assignments**

- **Parc 55 San Francisco**

- **Hotel Area Map**

- **Hilton San Francisco Union Square**
  333 O’Farrell Street, San Francisco, CA 94102  
  Tel: 415-771-1400

- **Parc 55 San Francisco**
  55 Cyril Magnin Street  
  San Francisco, CA 94102  
  Tel: 415-392-8000

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President, New York Eye and Ear Infirmary
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*JCAHPO, Woodworth, K. et al., 2008
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The Scheie Eye Institute congratulates IJCAHPO on its 50th Anniversary!

Singapore National Eye Centre (SNEC) Congratulates
International Joint Commission on Allied Health Personnel in Ophthalmology (IJCAHPO) on its 50th Anniversary!

SNEC-IJCAHPO Achievements and Collaborations

Apr 2014
IJCAHPO's accreditation of Duke-NUS & SNEC Basic Certificate for Ophthalmic Assistant and Technician.

Feb 2017
IJCAHPO’s reaccreditation was achieved for Duke-NUS & SNEC Basic Certificate training program. Overall, 52 AOPs trained till 2019. (21 Ophthalmic Assistants and 31 Ophthalmic Technicians)

Nov 2017
Memorandum of Understanding to establish SNEC as a Regional Examination and Testing Centre.

Aug 2018
First International Certification Examination for 7 Allied Ophthalmic Personnel and successfully attaining Certificate of Ophthalmic Technician accreditation.

Singapore National Eye Centre
11 Third Hospital Avenue, Singapore 168751
www.sneccom.sg
ATTENTION: Tickets and name badges will be mailed to those registered on or before September 27, 2019.

SAVE THE DATE!

NOV. 13-15, 2020
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