AC E 2019

47th Annual Continuing Education Program

October 11-13, 2019
Hilton San Francisco Union Square and Parc 55 San Francisco

www.jcahpo.org/ACE
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

**Allergan TechAlliance Presentation and Interactive Discussion**

Saturday, October 12, 2019
4:00 pm-6:00 pm
(see page 61 for details)

Join the Alliance—visit AllerganTechAlliance.com today!
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**

<table>
<thead>
<tr>
<th>Year</th>
<th>Date</th>
<th>Location</th>
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<tbody>
<tr>
<td>2020</td>
<td>November 13-15</td>
<td>Las Vegas</td>
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<tr>
<td>2021</td>
<td>November 12-14</td>
<td>New Orleans</td>
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<tr>
<td>2022</td>
<td>September 30-October 2</td>
<td>Chicago</td>
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Congratulations

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
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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, MHSn, COMT, CO, (F)ATPO  
Nicole Smith, COT  

## 2019 ACE Faculty Awards  
IJCAPHO 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, MHSn, COMT  

**25 Years**  
- Frank Scribick, MD  
- Aaron Shukla, PhD, COMT  
- Diana Hatisi, RN, BSN  

**15 Years**  
- Denice Barsness, COMT, ROUB  
- William Ehlers, MD  
- Charles Sionim, MD  

**10 Years**  
- James Gilman, CRA, FOPS  
- Gus Kohn, COT, ROUB  
- Brandy Lorek, BS, ROUB  
- Vasudha Panday, MD  
- John Shepherd, MD  

**5 Years**  
- Maria Ayers, MD, ROUB  
- Bruce Bailey, COT  
- Matthew Baugh, MHA, COT  
- Mandi Conway, MD, FACS  
- Nickole Delaney, COA, OSC  
- Komal Desai, MD  
- Sarah Gill, COT, OSC  
- Thomasine Gorry, MD  
- Donald Hudak, MD  
- Deborah Jacobs, MD  
- Francis Mah, MD  
- Tanya McClendon, COA, ROUB  
- Elizabeth Palkovacs, MD, FRCSC  
- Michelle Pineda, MBA  
- Jonathan Rubenstein, MD  
- Aljoeson Walker, MD  
- Xiaosong Zhu, COMT  

**ACE MOBILE APP:** Stay informed with access to all of the latest ACE conference information. Download IJCAPHO’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!

Learning Systems Study Hall
Saturday, 12:40 pm-2:40 pm
Are you looking to learn a new ophthalmic skill? Are you preparing for a skills exam as part of obtaining your certification? Come to the Learning Systems Study Hall to use IJCAHPO’s Learning Systems. Once registered, you may use the Study Hall to review all 6 core Learning Systems to practice your skills. You can work independently through the skills of your choice. If you need help, just ask and you will be connected with an expert. The skills available will include: Visual Fields, Tonometry, Ocular Motility, Retinoscopy and Refinement, Lensometry and Keratometry.

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.

Attenion
Name Badges and Tickets Will Be MAILED This Year!
- Registrations received on or before September 27 will be mailed via USPS.
- Registration changes can be made online or by contacting IJCAHPO until September 27. Changes after September 27 must be done on-site.
- All registrations received after September 27 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.

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
Saturday October 12 6:30 am-5:00 pm
Sunday October 13 6:30 am-4:30 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.
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.


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 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 9:00 am-5:00 pm
Sunday, October 13 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 9:00 am-5:00 pm
Monday, October 14 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 9:00 am-5:00 pm
Tuesday, October 15 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 9:00 am-1:00 pm

General Information

*Purchase a year’s Clinic CE Subscription or pick up an order form during IJCAHPO’s ACE weekend (October 11-13) to receive the Ophthalmic Assisting 101 package that includes 10 courses. Start a new hire off right on the education and certification career path.

Visit IJCAHPO’s Resource Center, Hilton Union Square, Imperial Ballroom, or IJCAHPO’s AAO exhibit booth—West, Booth 7616—for the Show Special!

For more information visit www.jcahpo.org/ClinicCE

Clinic CE Subscription

ACE SPECIAL ▶ One Free New Hire Course Package*
— A $99 Value!

* To receive the Ophthalmic Assisting 101 package that includes 10 courses. Start a new hire off right on the education and certification career path.

Visit IJCAHPO’s Resource Center, Hilton Union Square, Imperial Ballroom, or IJCAHPO’s AAO exhibit booth—West, Booth 7616—for the Show Special!
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 27** . . . . . . . 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 27.

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 27, 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 27 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 27, 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 27, 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 27 cancellation deadline.

Cancellations and Refunds
- Cancellations must be received in writing. If your registration is cancelled on or before September 27, 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 27. No refunds will be offered for changes after September 27.
- 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.
Register online and SAVE the $50 processing fee: www.jcahpo.org/ACE

Registrations/Cancellations must be received on or before the following dates:
- Early Registration Ends: Sept. 12
- Registration Price Increase: Sept. 27
- Changes/Cancellations/Refunds: Sept. 27
- Registration Price Increase: Oct. 11

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 □

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

Please indicate registration selections on reverse side. ➔
- Register online at www.jcahpo.org/ACE and click on REGISTER
- Send registration form with payment to: JCAHPO, 2025 Woodlane Drive, St. Paul, MN 55125-2998
- Fax: 651-731-0410
Questions? 800-284-3937. To avoid duplication, please do not mail and fax registrations.

Special accommodations: JCAHPO 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.
### Registration Form

**IJCAPHO**  •  **ATPO**  •  **CLSA**  • Annual Continuing Education Program

#### Registration

<table>
<thead>
<tr>
<th>Name ID#</th>
<th><strong>Certified</strong> (COA, CCOA, COT, COMT, ROUB, CDOS, OSC)</th>
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<td>$300 $450 $600</td>
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#### 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:

**3-Day Package** (Friday 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

|          | $220 | $290 | $360 | $260 | $330 | $400 |
|          | $210 | $280 | $350 | $250 | $320 | $390 |

#### 1-Day Package (Saturday or Sunday)
List course codes below. Check ONE: 5A 5SU

|          | $250 | $250 | $375 | $250 | $250 | $425 |
|          | $240 | $240 | $365 | $240 | $240 | $415 |

#### Military and Veteran Package
Any lectures Saturday and Sunday, plus Live Stream on Friday. List course codes below. Register by mail or fax only—see page 6.

|          | $250 | $250 | $375 | $250 | $250 | $425 |
|          | $240 | $240 | $365 | $240 | $240 | $415 |

#### Learning Labs
Sold only in conjunction with packages above. You MUST register below for the required prerequisite lecture if one is listed.

#### List Course Codes to Register
- Barcoded tickets will be mailed to you.
- Lecture course codes end with a number, e.g., 01SU3.
- Learning Lab course codes end with a “W,” e.g., 12SU4W.
- Prerequisite courses begin with “EY,” e.g., EY4.
- You MUST also register for the required prerequisite lecture if listed.

#### Prerequisite Courses:

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

- New
- Renewing
- $75/1 year
- $175/3 years
- $155/1 year
- $175/3 years

#### CLSA
Join or renew your CLSA membership and receive member pricing, $155/1 year

- New
- Renewing
- $155/1 year
- $175/3 years

#### MISCELLANEOUS

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<tbody>
<tr>
<td><strong>AAO Four-Day Exhibit Hall Pass</strong></td>
<td>$150</td>
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<tr>
<td><strong>Harold A. Stein, MD Lecture</strong> (Registration required)</td>
<td>FREE</td>
</tr>
<tr>
<td><strong>Foundation Donation</strong></td>
<td>$1 $5 $ Other $</td>
</tr>
</tbody>
</table>

Register Online and SAVE $50!

Processing Fee $50.00

Grand Total $
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.

<table>
<thead>
<tr>
<th>Learning Labs —Offered On-Site</th>
<th>Prerequisite, Introductory Courses—Offered Online</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keratometry</td>
<td>Introduction to Keratometry</td>
</tr>
<tr>
<td>Tonometry</td>
<td>Introduction to Tonometry</td>
</tr>
<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>
</tr>
<tr>
<td>Contact B-Scan Ultrasonography</td>
<td>Introduction to Contact B-Scan Ultrasonography</td>
</tr>
<tr>
<td>Refraction: Minus Cylinder</td>
<td>Introduction to Practical Refraction: Minus Cylinder</td>
</tr>
<tr>
<td>Refraction: Plus Cylinder</td>
<td>Introduction to Practical Refraction: Plus Cylinder</td>
</tr>
<tr>
<td>UBM</td>
<td>Introduction to UBM</td>
</tr>
<tr>
<td>Retinoscopy: Plus and Minus Cylinder</td>
<td>Learning Systems: Retinoscopy and Refined</td>
</tr>
<tr>
<td>Corneal Topography with the Pentacam</td>
<td>Introduction to Corneal Topography</td>
</tr>
</tbody>
</table>

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)
  Provider approved by the California Board of Registered Nursing, Provider Number 13516 for 138 contact hours.
- 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 Johns 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.
Capstone Lectures

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, FRCS, 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

<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>8:50 am-9:00 am</th>
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<tbody>
<tr>
<td>Room Welcome</td>
<td>Welcome to the first Capstone Lectures</td>
<td>Artificial Intelligence in Ophthalmology</td>
<td>Lean Techniques for the Ophthalmic Practice</td>
<td>The Future of OCT</td>
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<td></td>
<td>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.</td>
<td>Michael Chiang, MD Oregon Health and Science University Portland, OR</td>
<td>James Tsai, MD, MBA New York Eye and Ear Infirmary of Mount Sinai New York, NY</td>
<td>Joel Schuman, MD, FACS New York University Langone Eye Center New York, NY</td>
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<td></td>
<td>The Capstone Lectures will launch the ACE Program on Friday, October 11, from 8:00 am-3:50 pm at Parc 55.</td>
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<td>Seats are limited. Register early; don’t miss this special event.</td>
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<td>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.</td>
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<th>9:50 am-10:00 am</th>
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<td>Room Welcome</td>
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Non-Capstone Lectures and Labs

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<th>9:25 am-10:00 am</th>
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<tr>
<td></td>
<td>I—p 45</td>
<td>I—p 45</td>
<td>A—p 42</td>
<td>I—p 47</td>
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<tr>
<td>Market Street (Parc 55)</td>
<td>O3FR1 Diet, Nutrition and the Eye (McDonnell)</td>
<td>O3FR2 Getting to the Root of the Matter: Growing Your Ophthalmology Vocabulary (Whinery)</td>
<td>O3FR3 Name That Modifier! (Woodke)</td>
<td>O3FR4 The Ophthalmic Technician’s Critical Role in Medical Quality and Patient Safety (Gorry)</td>
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<td></td>
<td>I—p 42</td>
<td>B—p 40</td>
<td>B—p 39</td>
<td>B—p 38</td>
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<tr>
<td>Union Square 11</td>
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<td>NEW!</td>
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<tr>
<td>Union Square 14</td>
<td>21FR23W LEARNING LAB Assisting in Intravitreal Injections (Delaney)</td>
<td>20FR3W LEARNING LAB Exam Skills (Blackburn)</td>
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<td>I—p 58</td>
<td>I—p 59</td>
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<tr>
<td>Union Square 15-16</td>
<td>22FR23W LEARNING LAB Retinoscopy: Plus Cylinder (Donshik &amp; Norath)</td>
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<td>I—p 60</td>
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<tr>
<td>Union Square 17-18</td>
<td>23FR2W LEARNING LAB Ultrasound Biometry (A-Scan) (Hines)</td>
<td>23FR3W LEARNING LAB Ultrasound Biometry (A-Scan) (Hernandez)</td>
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<td>Union Square 19-20</td>
<td>24FR23W LEARNING LAB Introduction to the LENSTAR Optical Biometry (Menard)</td>
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<td>I—p 59</td>
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<td>Union Square 21</td>
<td>25FR23W LEARNING LAB Surgical Assisting (Loyacano)</td>
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<td>Union Square 22</td>
<td>26FR23W LEARNING LAB Fundus Photography (Bailey)</td>
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<td>I—p 59</td>
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### Friday Day-at-a-Glance

**10/11/19**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td></td>
<td>Sophia Saleem, MD New York Eye and Ear Infirmary of Mount Sinai</td>
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<td>New York, NY</td>
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<td>Richard Allen, MD, PhD, FACS</td>
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<td>Baylor College of Medicine</td>
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<td>Houston, TX</td>
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<tr>
<td>10:00 am-10:25 am</td>
<td>Update in Orbital Surgery</td>
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<td>Richard Holladay, MD, MSEE, FACS</td>
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<td>Holladay Lasik Institute</td>
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<td>Bellaire, TX</td>
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<td>10:25 am-10:50 am</td>
<td>New IOL Technologies</td>
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<td>11:00 am-11:25 am</td>
<td>Top 10 Tips on Clinic Efficiency</td>
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<td>Christine McDonald, COA, ROUB, OSC, COE</td>
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<td>Retina Research and Development Foundation</td>
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<td>St. Louis, MO</td>
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**2:00 pm-2:25 pm**

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<th>Session</th>
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<tr>
<td>Where is the Future of Cornea Headed?</td>
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<tr>
<td>Bennie Jeng, MD University of Maryland</td>
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<tr>
<td>School of Medicine</td>
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<td>Baltimore, MD</td>
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**2:25 pm-2:50 pm**

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<th>Session</th>
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<tr>
<td>Glaucoma: News and Views</td>
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<tr>
<td>Andrew Iwach, MD Glaucoma Center of San Francisco</td>
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<tr>
<td>San Francisco, CA</td>
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**3:00 pm-3:25 pm**

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<th>Session</th>
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<tr>
<td>Next Generation of Cross-Linking</td>
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<tr>
<td>David Hardten, MD Minnesota Eye Consultants</td>
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<td>Minneapolis, MN</td>
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**3:25 pm-3:50 pm**

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<tr>
<td>You could Die From That!</td>
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<tr>
<td>Karl Golnik, MD MEd</td>
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<tr>
<td>Cincinnati Eye Institute</td>
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<td>Blue Ash, OH</td>
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### 12:40 pm-1:30 pm

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>02FR5 You Saw What? A Curious Compendium of Ocular Oddities (Ehlers)</td>
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<td>I—p 42</td>
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### 1:50 pm-2:40 pm

<table>
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<tbody>
<tr>
<td>02FR6 Clinical Efficiency Through Lean Six Sigma Methodology (Hunter)</td>
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<td>B—p 38</td>
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### 3:00 pm-3:50 pm

<table>
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<tr>
<td>02FR7 Master Mystery: Glaucoma Case Investigations (Miller-Ellis)</td>
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<td>M—p 54</td>
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### 1:20 pm-1:50 pm

<table>
<thead>
<tr>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>03FR5 For the Love of Lensometry (Race)</td>
</tr>
<tr>
<td>I—p 50</td>
</tr>
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</table>

### 2:50 pm-3:20 pm

<table>
<thead>
<tr>
<th>Session</th>
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<tbody>
<tr>
<td>03FR6 Equipment Repair and Maintenance (Hunter)</td>
</tr>
<tr>
<td>B—p 40</td>
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### 3:25 pm-4:00 pm

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>NEW! 03FR7 Ouch! Ophthalmic Technician Triage Coding (Baugh)</td>
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<tr>
<td>B—p 39</td>
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### 1:55 pm-2:25 pm

<table>
<thead>
<tr>
<th>Session</th>
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<tbody>
<tr>
<td>20FR5W LEARNING LAB Keratometry (Lenig)</td>
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<tr>
<td>B—p 57</td>
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### 3:30 pm-4:00 pm

<table>
<thead>
<tr>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>20FR6W LEARNING LAB Keratometry (Kroneker)</td>
</tr>
<tr>
<td>B—p 57</td>
</tr>
</tbody>
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### 2:30 pm-3:00 pm

<table>
<thead>
<tr>
<th>Session</th>
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<tbody>
<tr>
<td>21FR5W LEARNING LAB Advanced Slit Lamp Examination Techniques (Shukla)</td>
</tr>
<tr>
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### 3:35 pm-4:05 pm

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>22FR5W LEARNING LAB Retinoscopy: Plus Cylinder (Lichtenstein &amp; Norath)</td>
</tr>
<tr>
<td>I—p 60</td>
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### 4:05 pm-4:35 pm

<table>
<thead>
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<th>Session</th>
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</thead>
<tbody>
<tr>
<td>23FR5W LEARNING KLAB Contact B-Scan Ultrasonography (Simms)</td>
</tr>
<tr>
<td>I—p 58</td>
</tr>
</tbody>
</table>

### 4:35 pm-5:05 pm

<table>
<thead>
<tr>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>23FR6W LEARNING LAB Contact B-Scan Ultrasonography (Simms)</td>
</tr>
<tr>
<td>I—p 58</td>
</tr>
</tbody>
</table>

### 5:05 pm-5:35 pm

<table>
<thead>
<tr>
<th>Session</th>
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<tbody>
<tr>
<td>26FR5W LEARNING LAB Optical Biometry and IOL Calculations (Blackburn)</td>
</tr>
<tr>
<td>A—p 61</td>
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### 9:25 am-9:50 am

<table>
<thead>
<tr>
<th>Session</th>
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<tbody>
<tr>
<td>Tele-Ophthalmology — A Vision for the Future</td>
</tr>
<tr>
<td>Sophia Saleem, MD New York Eye and Ear Infirmary of Mount Sinai</td>
</tr>
<tr>
<td>New York, NY</td>
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### 10:00 am-10:25 am

<table>
<thead>
<tr>
<th>Session</th>
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<tbody>
<tr>
<td>Update in Orbital Surgery</td>
</tr>
<tr>
<td>Richard Allen, MD, PhD, FACS</td>
</tr>
<tr>
<td>Baylor College of Medicine</td>
</tr>
<tr>
<td>Houston, TX</td>
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### 10:25 am-10:50 am

<table>
<thead>
<tr>
<th>Session</th>
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<tbody>
<tr>
<td>New IOL Technologies</td>
</tr>
<tr>
<td>Jack Holladay, MD, MSEE, FACS</td>
</tr>
<tr>
<td>Holladay Lasik Institute</td>
</tr>
<tr>
<td>Bellaire, TX</td>
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</tbody>
</table>

### 11:00 am-11:25 am

<table>
<thead>
<tr>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top 10 Tips on Clinic Efficiency</td>
</tr>
<tr>
<td>Christine McDonald, COA, ROUB, OSC, COE</td>
</tr>
<tr>
<td>Retina Research and Development Foundation</td>
</tr>
<tr>
<td>St. Louis, MO</td>
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</table>

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

<table>
<thead>
<tr>
<th>Session</th>
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<tbody>
<tr>
<td>Where is the Future of Cornea Headed?</td>
</tr>
<tr>
<td>Bennie Jeng, MD University of Maryland</td>
</tr>
<tr>
<td>School of Medicine</td>
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<tr>
<td>Baltimore, MD</td>
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### 2:25 pm-2:50 pm

<table>
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<tr>
<th>Session</th>
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<tbody>
<tr>
<td>Glaucoma: News and Views</td>
</tr>
<tr>
<td>Andrew Iwach, MD Glaucoma Center of San Francisco</td>
</tr>
<tr>
<td>San Francisco, CA</td>
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### 3:00 pm-3:25 pm

<table>
<thead>
<tr>
<th>Session</th>
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<tbody>
<tr>
<td>Next Generation of Cross-Linking</td>
</tr>
<tr>
<td>David Hardten, MD Minnesota Eye Consultants</td>
</tr>
<tr>
<td>Minneapolis, MN</td>
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### 3:25 pm-3:50 pm

<table>
<thead>
<tr>
<th>Session</th>
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<tbody>
<tr>
<td>You could Die From That!</td>
</tr>
<tr>
<td>Karl Golnik, MD MEd</td>
</tr>
<tr>
<td>Cincinnati Eye Institute</td>
</tr>
<tr>
<td>Blue Ash, OH</td>
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</table>
### Saturday Day-at-a-Glance

**1 hour = 1 Group A IJCAHPO credit**

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 am</td>
<td></td>
<td>Harold A. Stein, MD Lecture</td>
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<tr>
<td>9:00 am</td>
<td></td>
<td>“Seeing the Light with Retinal Gene Therapy: From Fantasy to Reality”</td>
</tr>
<tr>
<td>11:15 am</td>
<td></td>
<td>LEARNING LAB: There is an additional fee for Learning Labs</td>
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<tr>
<td>1:15 pm</td>
<td></td>
<td>LEARNING LAB: There is an additional fee for Learning Labs</td>
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**NEW COURSES/LABS:** There is an additional fee for Learning Labs.

**LEARNING LABS:**

- A—p 24: Overview of Low Vision Devices: Avoid the Pain, Enjoy the Gain! (Porter)
- B—p 25: Comprehensive Lensometry Lecture and Lab (Johnson)
- C—p 26: Contact B-Scan: Orientation to the Contact B-Scan (Johnson)
- D—p 28: Slit Lamp Skills: Refraction and Phoropter Skills (Johnson)
- E—p 30: Corneal Topography: Principles and Applications (Johnson)
- F—p 32: Contact Lens Fitting: Planning, Fitting, and Evaluation (Johnson)
- G—p 34: Glaucoma Management: Understanding and Implementing Treatment (Johnson)
- H—p 36: Ocular Surface Disorders: Evaluation and Management (Johnson)
- I—p 38: Essential Skills for the Modern Optician (Johnson)
- J—p 40: Advanced Ocular Pharmacology (Johnson)
- K—p 42: Ocular Motility Disorders: Diagnosis and Management (Johnson)
- L—p 44: Pediatric Eye Health: Prevention, Diagnosis, and Management (Johnson)
- M—p 46: refractive error - management (Johnson)
- N—p 48: Contact Lens Fitting: Modifications and Special Techniques (Johnson)
- O—p 50: Contact Lens Fitting: Complications and Management (Johnson)
- P—p 52: Corneal Dystrophies: Diagnosis and Management (Johnson)
- Q—p 54: Contact Lens Fitting: Contact Lens Stabilization (Johnson)
- R—p 56: Contact Lens Fitting: Contact Lens Fabrication (Johnson)
- S—p 58: Contact Lens Fitting: Contact Lens Placement (Johnson)
- T—p 60: Contact Lens Fitting: Contact Lens Storage and Handling (Johnson)
- U—p 62: Contact Lens Fitting: Contact Lens Care (Johnson)
- V—p 64: Contact Lens Fitting: Contact Lens Replacement (Johnson)
- W—p 66: Contact Lens Fitting: Contact Lens Storage and Handling (Johnson)
- X—p 68: Contact Lens Fitting: Contact Lens Care (Johnson)
- Y—p 70: Contact Lens Fitting: Contact Lens Replacement (Johnson)
- Z—p 72: Contact Lens Fitting: Contact Lens Storage and Handling (Johnson)
<table>
<thead>
<tr>
<th>Room</th>
<th>Saturday, October 12, 2019</th>
<th>Presentation and Interactive Discussion</th>
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<tbody>
<tr>
<td>Franciscan C</td>
<td>Saturday, October 12, 2019</td>
<td>Presentation and Interactive Discussion</td>
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<tr>
<td>Union Square 1-2</td>
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<td>Union Square 14</td>
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<td>Union Square 15-16</td>
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<tr>
<td>Union Square 17-18</td>
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<tr>
<td>Union Square 22</td>
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<tr>
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<td>Time</td>
<td>Location</td>
<td>Course Title</td>
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<tr>
<td>8:00 am</td>
<td>Continental Ballroom 13</td>
<td>NEW! 04SU1 Integrating Artificial Intelligence to Advance Ophthalmic Care (Chang)</td>
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<td></td>
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<td>NEW! 04SU2 Device Development: True or False (Gelink)</td>
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<tr>
<td>10:00 am</td>
<td>Continental Ballroom 4</td>
<td>NEW! 04SU3 Introducing the Neuro-Emergency (Desai)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NEW! 04SU4 Update on Amblyopia, Pediatric Cataract, and Today and Tomorrow</td>
</tr>
<tr>
<td>11:30 am</td>
<td>Continental Ballroom 5</td>
<td>NEW! 04SU5 The Future of Ophthalmic Photography (Forbes)</td>
</tr>
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<td></td>
<td></td>
<td>NEW! 04SU6 The Future of Ophthalmic Photography (Kubie)</td>
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<tr>
<td>1:30 pm</td>
<td>Continental Ballroom 6</td>
<td>NEW! 04SU7 Color Vision Testing (Simm)</td>
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<td>NEW! 04SU8 The Future of Ophthalmic Photography (Romero)</td>
</tr>
<tr>
<td>2:45 pm</td>
<td>Continental Ballroom 7/9</td>
<td>NEW! 04SU9 The Future of Ophthalmic Photography (Rutstein)</td>
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<td>NEW! 04SU10 The Future of Ophthalmic Photography (Rutstein)</td>
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<tr>
<td>4:00 pm</td>
<td>Continental Ballroom 8</td>
<td>NEW! 04SU11 The Future of Ophthalmic Photography (Rutstein)</td>
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<tr>
<td>5:15 pm</td>
<td>Continental Ballroom 9</td>
<td>NEW! 04SU12 The Future of Ophthalmic Photography (Rutstein)</td>
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<tr>
<td>6:30 pm</td>
<td>Yosemite A</td>
<td>NEW! 04SU13 The Future of Ophthalmic Photography (Rutstein)</td>
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<tr>
<td>7:45 pm</td>
<td>Yosemite B</td>
<td>NEW! 04SU14 The Future of Ophthalmic Photography (Rutstein)</td>
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<tr>
<td>9:00 pm</td>
<td>Yosemite C</td>
<td>NEW! 04SU15 The Future of Ophthalmic Photography (Rutstein)</td>
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<tr>
<td>10:15 pm</td>
<td>Yosemite A</td>
<td>NEW! 04SU16 The Future of Ophthalmic Photography (Rutstein)</td>
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<td>NEW! 04SU17 The Future of Ophthalmic Photography (Rutstein)</td>
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<tr>
<td>11:30 pm</td>
<td>Yosemite B</td>
<td>NEW! 04SU18 The Future of Ophthalmic Photography (Rutstein)</td>
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1 hour = 1 Group A IJCAHPO credit
<table>
<thead>
<tr>
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<th>Session ID</th>
<th>Type</th>
<th>Title</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>Franciscan C</td>
<td>15SU12W</td>
<td>LEARNING LAB</td>
<td>Eye Exam in Spanish: Evaluation of the Non-Bilingual Patient (DeCain)</td>
<td></td>
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<tr>
<td>Union Square 1-2</td>
<td>16SU12W</td>
<td>LEARNING LAB</td>
<td>Refraction: Plus Cylinder (Farmer &amp; Cooper)</td>
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<td>Union Square 3-4</td>
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<tr>
<td>Union Square 5-6</td>
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<tr>
<td>Union Square 10</td>
<td>19SU1W</td>
<td>I—p 60</td>
<td>LEARNING LAB The View on Scribing (Tello)</td>
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<tr>
<td>Union Square 11</td>
<td>21SU1W</td>
<td>I—p 60</td>
<td>LEARNING LAB Visual Acuity Testing for Preverbal Children (Zhu)</td>
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<tr>
<td>Union Square 14</td>
<td>22SU1W</td>
<td>B—p 56</td>
<td>LEARNING LAB Anatomy and Dissection of the Eye (Scribbick)</td>
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<tr>
<td>Union Square 15-16</td>
<td>23SU1W</td>
<td>I—p 60</td>
<td>LEARNING LAB Ultrasound Biometry (A-Scan) (Hines)</td>
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<tr>
<td>Union Square 17-18</td>
<td>24SU1W</td>
<td>B—p 57</td>
<td>LEARNING LAB Ocular Motility: Identifying and Measuring Deviations</td>
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<td>Union Square 19-20</td>
<td>26SU12W</td>
<td>I—p 58</td>
<td>LEARNING LAB Cirrus HD-OCT (McKeenen)</td>
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<tr>
<td>Union Square 22</td>
<td>26SU34W</td>
<td>A—p 61</td>
<td>LEARNING LAB Advanced IOL Master (Emerson)</td>
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<td></td>
<td>26SU34W</td>
<td></td>
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<td></td>
<td>26SU56W</td>
<td>I—p 59</td>
<td>LEARNING LAB OCT-A in a Multi-Modal Imaging Approach with the SPECTRALIS (McHugh)</td>
<td></td>
</tr>
</tbody>
</table>

**Sunday Day-at-a-Glance**

October 11 - 13, 2019   •   Hilton Union Square/PARC 55
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THANK YOU!

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www.reichert.com

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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.

www.atpo.org
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!
Friday, October 11

8:00 am-11:30 am
COT Written Certification
Exam Review
RACE, WILSON
Credts: 3.25 A IJCAHPO
Powell (Parc 55)

1:00 pm-4:00 pm
COA Written Certification
Exam Review
DAKIN, GRANT
Credts: 0
Powell (Parc 55)

1:50 pm-3:50 pm
COT Practical Certification
Exam Review
GILL, LAMELL, PIGNONE REED, RACE, REED
Credts: 2 A IJCAHPO
Union Square 5 & 6 (Hilton)

8:00 am-12:30 pm
COMT Written Certification
Exam Review
HANSEN, KISS
Credts: 4.25 A IJCAHPO
Mason (Parc 55)

1:00 pm-4:30 pm
COMT Practical Certification
Exam Review
BAIRD, BALLenburg, BUSCH, HOLT WILSON, WILSON
Credts: 3.25 A IJCAHPO
Union Square 21 (Hilton)

1:00 pm-4:30 pm
ROUB Written Certification
Exam Review
MCDONALD
Credts: 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
Credts: 2 A IJCAHPO
Mission (Parc 55)

Saturday, October 12—Scientific Session
Cyril Magnin Ballrooms II & III (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
WOODWORTH
Credts: 0

10:05 am-10:55 am
Medical Ethics for AOP
FLAHERTY
Credts: 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
Credts: 0.5 A IJCAHPO

11:35 am-12:05 pm
Where Hallucinations and Illusions Live in the Brain
JACOBSEN, VEGUNTA
Credts: 0.5 A IJCAHPO

12:05 pm-12:55 pm
Membership Luncheon
Cyril Magnin Ballroom 1

1:00 pm-1:50 pm
Kenneth E. Woodworth, Jr., Fellow Lecture: 38 Years in the Rearview Mirror
CARPENTER
Credts: 1 A IJCAHPO

1:50 pm-2:40 pm
Paying it Forward: Volunteerism for the Allied Ophthalmic Professional
LAMELL
Credts: 1 A IJCAHPO

2:40 pm-2:50 pm
Break

2:50 pm-3:20 pm
The Root of the Ophthalmic Dilemma!
PARKER
Credts: 0.5 A IJCAHPO

3:20 pm-3:50 pm
Understanding Personality Types to Enhance Patient Engagement
SHAFER
Credts: 0

3:50 pm-4:20 pm
Quality Improvement: What Comes Next After the RCA?
ROVICK
Credts: 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
Credts: 1.5 A IJCAHPO
Cyril Magnin Ballroom 1

6:15 pm
Adjourn

ATPO’s Written and Practical Certification Exam Reviews

Saturday, October 12, 1:00 pm
Cyril Magnin Ballrooms II & III (Parc 55)

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
Andreea 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 COT program. Verification from the program director will be required.
Description: IJCAHPO COA 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.

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. COMT certification is required, unless the participant is a student enrolled in a COMT program. Verification from the program director will be required.
Description: IJCAHPO COMT examination content areas will be reviewed and discussed. This course is designed to review selected testing procedures and skills equivalent to the areas for the COMT level of certification. Areas covered will include: version/duction, measuring strabismus, pupil function, fundus photography and neutralizing spectacles. This course is intended to be a review of the above skills and equipment used. It is not an introductory workshop and will not cover every procedure and skill equivalent for the COMT level of certification. 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 COMT 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, Roslindale, MA
Matthew Parker, PhD, LSSMBB, PMP, CTC, COMT, CST, 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 (NBCOE). The COE credential is the property of the American Society of Ophthalmic Administrators (ASOA) and is administered by the NBCOE.
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-No” 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.

Kenneth E. Woodworth, Jr., Fellow Lecture: 38 Years in the Rearview Mirror (01SA5A)
Mona Carpenter, COMT, (F)ATPO, Frankfort, KY
Saturday, 1:00 pm-1:50 pm  Credits: 1 A IJCAHPO
Description: This course will share tips and techniques, learned over a 38-year career, that can help enhance and improve a technician’s skills and experiences in the clinic. Topics will include testing challenging patients, history taking and specialized testing. After taking this course, attendees will have the confidence and skill techniques to create a more positive experience in the workplace.

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

COPS
Cleveland Ophthalmic Personnel Society

KATPO
Kentucky Association of Technical Ophthalmic Personnel Society

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

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.

Financial interest disclosed

Optical Pearls and Pitfalls in Ophthalmology (01SU2A)
David Guyton, MD, Baltimore, MD
Sunday, 9:00 am-9:50 am

Description: This course will cover the everyday pearls and pitfalls in an ophthalmic practice including assessing accommodation, detecting IOI 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.

Optic Nerve: A Piece in a Complex Puzzle (01SU3A1)
Wanda Pfeifer, COMT, CO, OC(C), Riverside, IA
Sunday, 10:00 am-10:30 am

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

Description: This course will discuss the care and handling of prosthetic soft lenses. Attendees will also 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

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

Alcon Excellence Academy—Facilitating Training and Education Through Distance Learning (01SU4A)
Rustin Floyd, MBA, Fort Worth, TX
Sunday, 11:00 am-11:50 am

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

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, 2:50 pm-3:20 pm

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, 3:20 pm-3:50 pm

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, 3:50 pm-4:20 pm

Description: This course will cover the everyday pearls and pitfalls in an ophthalmic practice including assessing accommodation, detecting IOI 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.

Who, What & How of Prosthetic Soft Lenses (01SU8A)
Wendy Ford, COMT, FCLSA, NCLEM, Manassas, VA
Sunday, 4:20 pm-4:50 pm

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

IJCAHPO from the ATPO community!

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KEYNOTE SPEAKER:
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Ophthalmic Training Strategies That Work:
A Guide for Technician Trainers

Book Signing: Sunday, October 13
9:30 am-10:30 am
IJCAHPO Resource Center, Hilton Union Square, Imperial Ballroom

www.atpo.org
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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CLSA Contact Lens Symposium
Saturday, October 12, 2019
8:00 am-4:40 pm, Mission Room

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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
Dolliesie University/MWK 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
Trinity 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 Roski 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)
### Categories-at-a-Glance

#### Categories-at-a-Glance

**DAY & TIME**  |  **COURSE CODE**  |  **COURSE TITLE**  |  **PG**
---|---|---|---
**1. Administrative/Practice Management**
**BASIC**
Fri, 11:30-12:20  |  03FR4  |  The Ophthalmic Technician's Critical Role in Medical Quality and Patient Safety  |  38
Fri, 1:50-2:40  |  02FR6  |  Clinical Efficiency Through Lean Six Sigma Methodology  |  38
Sat, 9:10-10:00  |  05SA2  |  Pump Up Your Techs!  |  38
Sat, 10:20-11:10  |  11SA3  |  Setting Up an Office Procedure Room: A Primer  |  38
**INTERMEDIATE**
Sat, 11:30-1:30  |  05SA45  |  Ophthalmic Study Coordinator Roundtable  |  39
Sat, 1:50-2:40  |  05SA6  |  NEW! Best Practices for EHR, Patient Security and Confidentiality  |  38
Sat, 3:00-3:50  |  05SA7  |  NEW! General Ophthalmology Clinic Efficiency Review and Pearls  |  38
Sun, 11:30-12:20  |  08SU4  |  Middle Management: Now What?  |  39
Sun, 12:40-1:30  |  05SU5  |  NEW! Co-Management Liability Exposures and Risk Management  |  38
Sun, 3:00-3:50  |  05SU7  |  Teaching Skills for Successful Technicians  |  39
Sun, 3:00-3:50  |  06SU7  |  Leading Your Tech Team  |  38
**ADVANCED**
Sun, 1:50-2:40  |  06SU6  |  Optimizing Patient Flow for Technicians  |  39

**2. Chart Documentation/Coding/Scribing/Triage**
**BASIC**
Fri, 10:20-11:10  |  03FR3  |  Name That Modifier!  |  39
Fri, 3:00-3:50  |  03FR7  |  NEW! Ouch! Ophthalmic Triage Coding  |  39
Sat, 9:10-10:00  |  07SA2  |  NEW! The Cyberscribe: The Future of Ophthalmic Assisting  |  39
**INTERMEDIATE**
Sat, 9:10-10:00  |  08SA2  |  NEW! Triaging Ocular Emergencies: Should They Come in or Not?  |  40
Sat, 3:00-3:50  |  07SA7  |  NEW! The ICD-10 Top Ten  |  40
Sun, 8:00-8:50  |  08SU1  |  Get the 411 on Billing Testing Services  |  40
Sun, 9:10-10:00  |  08SU2  |  NEW! Audit Targets: How the Knowledgeable Technician Can Slay the Dragon  |  39
Sun, 3:00-3:50  |  07SU7  |  NEW! Healthcare Cybersecurity & Updates on EHR Issues  |  40

**3. History Taking**
**BASIC**
Sun, 11:30-12:20  |  05SU4  |  NEW! Cognitive Bias and Allied Health Personnel in Ophthalmology  |  40
**INTERMEDIATE**
Sat, 10:20-12:20  |  08SA34  |  The Importance of the Technician’s Role in the Ophthalmic Exam  |  40

**4. General Ophthalmic Knowledge**
**BASIC**
Fri, 9:10-10:00  |  03FR2  |  Getting to the Root of the Matter: Growing Your Ophthalmology Vocabulary  |  40
Fri, 1:50-2:40  |  03FR6  |  Equipment Repair and Maintenance  |  40
Sat, 12:40-1:30  |  05SA5  |  NEW! Become The Technician That Your Patients will Love  |  40
Sat, 12:40-1:30  |  08SA5  |  NEW! Ethics in Ophthalmology: A Practical Guide  |  40
Sun, 12:40-1:30  |  06SU5  |  NEW! Unmasking and Rectifying Errors: Become Indispensable to Your Ophthalmologist  |  41
**INTERMEDIATE**
Sat, 11:30-12:20  |  05SA4  |  NEW! Anatomy and Physiology: The Whats, Whys and Hows  |  41
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Sun, 11:30-12:20  |  06SU4  |  NEW! Ergonomics and Wellness in Ophthalmology  |  41
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**5. Comprehensive Clinical Ophthalmology**
**BASIC**
Sat, 10:20-11:10  |  04SA3  |  Infection Prevention in Ophthalmology  |  41
Sat, 10:20-11:10  |  15SA3  |  NEW! Patient-Centered Approach to the Management of Ocular Surface Discomfort  |  41
Sun, 12:40-1:30  |  07SU5  |  NEW! Ocular Pharmacology  |  41
**INTERMEDIATE**
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Fri, 12:40-1:30  |  02FR5  |  You Saw What? A Curious Compendium of Ocular Oddities  |  42
Sat, 9:10-10:00  |  04SA2  |  Amniotic Membrane  |  41
Sat, 12:40-1:30  |  07SA5  |  The Evaluation of the Patient with Double Vision  |  42
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**ADVANCED**
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Sat, 12:40-1:30  |  10SA5  |  The Myopia Epidemic: Public Health Implications and Interventions  |  42

**6. General Surgery**
**BASIC**
Sat, 9:10-10:00  |  10SA2  |  NEW! Basic Ophthalmic Surgical Assisting  |  42
**INTERMEDIATE**
Sun, 8:00-8:50  |  07SU1  |  NEW! TASS  |  42
Sun, 3:00-3:50  |  09SU7  |  Compliance in the Ophthalmic ASC in 2019  |  42
### 7. Cornea

**INTERMEDIATE**
- **Sat, 11:30-12:20** 11SA4 NEW! Eye Bank Prepared Tissue: The Surgery Starts Here 44
- **Sat, 3:00-3:50** 14SA7 NEW! Update on Modern Corneal Procedures: DMEK, DSEK, DALK, PKP 44
- **Sun, 9:10-10:00** 06SU2 NEW! Anterior Segment Trauma 44
- **Sun, 12:40-1:30** 04SU5 Corneal Procedures for Today and Tomorrow 44

**ADVANCED**
- **Sat, 15:0-2:40** 04SA6 Keratoconus and the Other Corneal Ectasias: Update for Technicians 44
- **Sun, 9:10-10:00** 07SU2 Surgical Management of Severe Ocular Surface Disease 44
- **Sun, 11:30-12:20** 07SU4 Corneal Cross-Linking 44

### 8. Glaucoma

**BASIC**
- **Sat, 15:0-2:40** 14SA6 NEW! Role of the Ophthalmic Assistant in Office Management of Patients with Glaucoma 44
- **Sun, 10:20-12:20** 15SU34 Empowering Glaucoma Patients to Take Care of Themselves 44

**INTERMEDIATE**
- **Sat, 11:30-12:20** 07SA4 NEW! New Glaucoma Surgeries: Understanding MIGS 44
- **Sat, 3:00-3:50** 04SA7 Current Concepts in Glaucoma: Management of the Glaucoma Patient 44
- **Sun, 8:00-8:50** 10SU1 NEW! Kahook Dual Blade Goniotomy 44

### 9. Oculoplastics

**INTERMEDIATE**
- **Sat, 10:20-11:10** 05SA3 NEW! The One-Eyed Exam: Issues with the Anophthalmic Patient 44
- **Sun, 10:20-11:10** 08SU3 Ocular Trauma and Management 44

### 10. Retina

**BASIC**
- **Sun, 12:40-1:30** 13SU5 NEW! Why We Ask What We Ask: Correlating Signs & Symptoms with Retinal Diseases 44

**INTERMEDIATE**
- **Fri, 8:00-8:50** 02FR1 Updated Guidelines for Intravitreal Injections 44
- **Fri, 9:10-10:00** 02FR2 NEW! Uveitis 44
- **Sun, 9:10-10:00** 10SU2 NEW! Endophthalmitis Prevention 44

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- **Sat, 15:0-2:40** 06SA6 Gene Therapy 44
- **Sat, 15:0-3:50** 15SA67 Diabetic Retinopathy: Learn to be a Certified Ophthalmic Imaging Assistant 44
- **Sat, 3:00-3:50** 06SA7 Macular Degeneration: 2019 and Beyond 44

### 11. Refractive and Cataract Surgery

**INTERMEDIATE**
- **Sat, 10:20-11:10** 10SA3 NEW! Understanding Small Incision Lenticule Extraction 44
- **Sun, 10:20-11:10** 07SU3 NEW! Intraocular Lenses (IOLs): Current Platforms and Future Technologies 44
- **Sun, 10:20-11:10** 09SU3 Evaluating Patients for Cataract Surgery 44
- **Sun, 3:00-3:50** 08SU7 NEW! Surgical Management of Astigmatism 44

**ADVANCED**
- **Sat, 11:30-12:20** 06SA4 IOL Calculations 44
- **Sat, 12:40-1:30** 04SA5 Working With the Refractive Surgery Patient 44

### 12. Neuro-Ophthalmology

**INTERMEDIATE**
- **Fri, 11:30-12:20** 02FR4 Neuro-Ophthalmology Testing 44
- **Sun, 8:00-8:50** 09SU1 NEW! Neuroimaging in Ophthalmology 44
- **Sun, 11:30-12:20** 04SU4 Which is the Neuro-Ophthalmic Emergency? 44

**ADVANCED**
- **Sat, 11:30-12:20** 10SA4 NEW! Cranial Nerve Palsies 44
- **Sun, 8:00-8:50** 06SU1 Wacky Eye Movements: Dangerous, Debilitating or Dubious? 44
- **Sun, 10:20-11:10** 04SU3 Functional Vision Loss: The Cases that Haunt Us 44
- **Sun, 10:20-11:10** 06SU3 Pupil Cases: When to Worry, When to Watch 44

### 13. Pediatrics

**BASIC**
- **Sat, 11:30-12:20** 04SA4 Introductory Strabismus 44

**INTERMEDIATE**
- **Sun, 11:30-12:20** 10SU4 Red Eye in Pediatrics: Nuisance or Life Threatening? 44
- **Sun, 12:40-1:30** 08SU5 NEW! Identifying and Reporting Child Abuse in the World of Ophthalmology 44
- **Sun, 3:00-3:50** 10SU7 Finding Your Inner Child: Tips for the Pediatric Exam 44

**ADVANCED**
- **Sat, 9:10-10:00** 15SA2 NEW! Orthoptic Cases: Things You Won’t See in Orthoptics 44
- **Sat, 12:40-1:30** 09SA5 NEW! New Thoughts on Amblyopia Treatment: The PEDIG Studies 44
- **Sun, 9:10-10:00** 04SU2 NEW! Update on Amblyopia, Pediatric Cataract, and Adult Strabismus 44

### 14. Ocular/Systemic Diseases

**INTERMEDIATE**
- **Sat, 9:10-10:00** 14SA2 NEW! AIDS and the Ophthalmic Practice 44
- **Sat, 12:40-1:30** 06SA5 What Is This? Ocular Findings in Systemic Disease 44
- **Sun, 8:00-8:50** 05SU1 NEW! Thyroid Eye Disease 44
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<td>06SA2 NEW! Understanding Intraocular Tumors—You Can’t Miss Them</td>
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<td>Sat, 11:30-12:20</td>
<td>23SA4W</td>
<td>Contact B-Scan Ultrasonography</td>
<td>58</td>
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<tr>
<td>Sun, 12:40-2:40</td>
<td>22SA65W</td>
<td>Retinoscopy: Minus Cylinder</td>
<td>59</td>
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<tr>
<td>Sun, 12:40-1:30</td>
<td>25SA5W</td>
<td>Exam Skills</td>
<td>59</td>
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<tr>
<td>Sat, 15:0-2:40</td>
<td>17SA6W</td>
<td>NEW! The View on Scribing</td>
<td>60</td>
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<tr>
<td>Sat, 15:0-3:50</td>
<td>20SA67W</td>
<td>Neuro-Tech</td>
<td>59</td>
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<tr>
<td>Sat, 15:0-2:40</td>
<td>23SA6W</td>
<td>Ultrasound Biometry (A-Scan)</td>
<td>60</td>
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<tr>
<td>Sat, 15:0-3:50</td>
<td>26SA67W</td>
<td>Cirrus HD-OCT</td>
<td>58</td>
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<tr>
<td>Sat, 3:00-3:50</td>
<td>23SA7W</td>
<td>Ultrasound Biometry (A-Scan)</td>
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<tr>
<td>Sun, 8:00-8:50</td>
<td>19SU1W</td>
<td>NEW! The View on Scribing</td>
<td>60</td>
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<tr>
<td>Sun, 8:00-8:50</td>
<td>21SU1W</td>
<td>NEW! Meibography: Learn from the Lids</td>
<td>59</td>
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<tr>
<td>Sun, 8:00-8:50</td>
<td>23SU1W</td>
<td>Ultrasound Biometry (A-Scan)</td>
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<tr>
<td>Sun, 8:00-10:00</td>
<td>26SU1W</td>
<td>Cirrus HD-OCT</td>
<td>58</td>
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<tr>
<td>Sun, 9:10-10:00</td>
<td>20SU2W</td>
<td>Visual Acuity Testing for Preverbal Children</td>
<td>60</td>
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<tr>
<td>Sun, 9:10-10:00</td>
<td>21SU2W</td>
<td>NEW! Meibography: Learn from the Lids</td>
<td>59</td>
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<td>Sun, 9:10-10:00</td>
<td>23SU2W</td>
<td>Ultrasound Biometry (A-Scan)</td>
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<tr>
<td>Sun, 10:20-12:20</td>
<td>21SU34W</td>
<td>Silt Lamp Microscopy</td>
<td>60</td>
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<tr>
<td>Sun, 10:20-11:10</td>
<td>24SU3W</td>
<td>Ocular Motility: Identifying and Measuring Binocular Function</td>
<td>59</td>
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<tr>
<td>Sun, 12:40-2:40</td>
<td>16SU56W</td>
<td>NEW! OCT-A in a Multi-Modal Imaging Approach with the SPECTRALIS</td>
<td>59</td>
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<tr>
<td>Sun, 12:40-2:40</td>
<td>26SU56W</td>
<td>Fundus Photography</td>
<td>59</td>
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<td>23. Learning Labs (ADVANCED)</td>
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<tr>
<td>Fri, 12:40-2:40</td>
<td>21FR56W</td>
<td>Advanced Slit Lamp Examination Techniques</td>
<td>61</td>
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<tr>
<td>Fri, 12:40-2:40</td>
<td>26FR56W</td>
<td>Optical Biometry and IOL Calculations</td>
<td>61</td>
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<tr>
<td>Sat, 9:10-11:10</td>
<td>24SA23W</td>
<td>Advanced LENSTAR Optical Biometry</td>
<td>61</td>
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<tr>
<td>Sat, 9:10-11:10</td>
<td>26SA23W</td>
<td>Optical Biometry and IOL Calculations</td>
<td>61</td>
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<tr>
<td>Sat, 11:30-1:30</td>
<td>21SA45W</td>
<td>Advanced Slit Lamp Examination Techniques</td>
<td>61</td>
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<tr>
<td>Sun, 10:20-12:20</td>
<td>26SU34W</td>
<td>Advanced IOL Master</td>
<td>61</td>
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<tr>
<td>Sun, 11:30-12:20</td>
<td>24SU4W</td>
<td>Ocular Motility: Approaching Patient Examinations</td>
<td>61</td>
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</table>
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  
David Yoo, MD, Hines, 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 helps to 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! Always Be Careful: The ABCs of Office Safety (07FR5)**
Jan K. Ledford, COMT, Franklin, NC

**Friday, 12:40 pm-1:30 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 bottlenecks identification and resolution, patient flow and facility design will be presented. Eye and E/M code examination elements as presentation 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**

**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 bottlenecks 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.

**Financial interest disclosed**

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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.
NEW! Life in the Trenches: Management, Supervisory and Training Case Studies (07SA6)
Nichole 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 Loyacano, 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
Sunday, 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-3:50 pm  Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1
Description: With increasing overhead and constant reimbursement cuts, it is more important than ever that technicians are well trained. This course is designed to present an overview of how to develop in-house training for technicians to increase their efficiency and knowledge. Discussions will include skill testing to designate various levels of technical staff, as well as ways to improve office flow using doctor-specific, complaint-specific protocols to produce complete work ups.

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.

NEW! The Cyberscribe: The Future of Ophthalmic Assisting (07SA2)
Kelly Moehrle, COT, OSC, Rochester, PA
Saturday, 9:10 am-10:00 am  Credits: 1 A IJCAHPO
Description: Most physicians will agree that a scribe is an invaluable resource to have in the clinic. Scribes offer assistance on a multitude of levels, but unfortunately not all practices have the staffing to provide a scribe in every situation. That’s where the concept of cyberscribes comes into play. Imagine being able to dictate an exam and have everything in place, in the chart, correctly noted without a need for an employee in the office! This course will demonstrate the idea of implementing a cyberscribe program into your practice.

NEW! Ouch! Ophthalmic Technician Triage Coding (03FR7)
Matthew Baugh, MHA, COT, OCS, OCRS, West Jordan, UT
Friday, 3:00 pm-3:50 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, OCRS, San Francisco, CA
Matthew Baugh, MHA, COT, OCRS, West Jordan, UT
Sunday, 9:10 am-10:00 am  Credits: 1 A IJCAHPO, CEP: CABRN-1
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.
**IJCAHPO Course Descriptions**

**Get the 411 on Billing Testing Services (08SU1)**
Jennifer Edgar, CPC, CPCO, OCS, OCSR, San Francisco, CA  
Sunday, 8:00 am-8:50 am Credits: 1 A IJCAHPO, AOC-NC  
**Description:** Coding is a team sport and requires all staff to understand what is necessary to keep the practice profitable. Key areas such as appropriately performing and billing testing services will assure practice success. All staff in the ophthalmic practice should be aware of the vulnerabilities and how to protect the practice. The course will provide coding scenarios that define what is necessary for testing services.

**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  
**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, FRSCS, FRCP, Kingston, ON Canada  
Sunday, 11:30 am-12:20 pm Credits: 1 A IJCAHPO, 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.

**INTERMEDIATE**

**The Importance of the Technician’s Role in the Ophthalmic Exam (08SA34)**
Michael Stewart, MD, Jacksonville, FL  
Saturday, 10:20 am-12:20 pm Credits: 2 A IJCAHPO, AOC-NC, OPS 1:2  
**Description:** This course will cover the finer points and pitfalls of the history and examination (pupils, confrontation fields, vision testing, motility, etc.) in preparing the patient for the ophthalmologist.  
Financial interest disclosed

**4. General Ophthalmic Knowledge**

**BASIC**

**NEW! Become the Technician that Your Patients will Love (05SA5)**
Adrienne Campos, COA, Bronx, NY  
Saturday, 12:40 pm-1:30 pm Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1  
**Description:** Building good patient rapport with exceptional communications is essential. Good communication skills are critical in obtaining a proper history and in providing outstanding patient education. With practice and reflection, technicians can strengthen their patient interactions to clearly communicate and build efficiency into the patient examination. This course will address: approaching your patient in terms of questioning; asking the right questions; learning to determine what diagnostic tests will be required, depending on what the patient complaint is; and becoming more observant of the patient’s characteristics by reading body language and mannerisms. Special focus will be given to important tips that can be used to provide eye health information and instruction to help patients with the correct use of medications and care of their eye disease and injuries.

**Equipment Repair and Maintenance (03FR6)**
Jeffery Hunter, COT, Streetsboro, OH  
Friday, 1:50 pm-2:40 pm Credits: 1 A IJCAHPO, AOC-NC, OPS 1:2  
**Description:** This course will provide information on how to care for and maintain your ophthalmic instruments and save your office from costly repairs.

**NEW! Ethics in Ophthalmology: A Practical Guide (08SA5)**
Brian Welcome, MD, Greenville, SC  
Saturday, 12:40 pm-1:30 pm Credits: 1 A IJCAHPO, AOC-NC, OPS 1:2  
**Description:** Background information and case studies will be used to illustrate fundamental concepts of professional ethics in every day ophthalmic practice.

**Getting to the Root of the Matter: Growing Your Ophthalmology Vocabulary (03FR2)**
Jacqueline Whinery, COA, OSC, OCS, Bakersfield, CA  
Friday, 9:10 am-10:00 am Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2  
**Description:** This course will explore the Latin and Greek roots of ophthalmic terms and their relationships with words from the same root. The goal of this course is to improve Allied Ophthalmic Personnel’s working knowledge of ocular anatomy and medical terminology.
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-NC, 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.

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
Emi Sanders, BSc, CCRP, Calgary, AB Canada
Sunday, 11:30 am-12:20 pm  Credits: 1 A IJCAHPO, AOC-C, 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.

NEW! Patient-Centered Approach to the Management of Ocular Surface Discomfort (15SA3)
Michelle Kim, MD, Irwindale, CA
Donald Fong, 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.

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 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! 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.

NEW! 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.
Course Descriptions

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 Zelwegger Syndrome. Attendees will be invited to share unusual cases they have seen.

ADVANCED

The Myopia Epidemic: Public Health Implications and Interventions (10SA5)
Bobek Modjahedhi, 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 UCAHPO, 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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7. Cornea

**INTERMEDIATE**

**NEW! Anterior Segment Trauma (06SU2)**
Cristos Ifantides, MD, MBA, Denver, CO
Sunday, 9:10 am-10:00 am  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

Description: The eye’s anterior segment is continually exposed to minute, mild trauma throughout the day and is protected by the tear film, corneal epithelium and conjunctival epithelium. However, significant trauma requires ophthalmic examination and treatment. We will discuss the safe work up and management of a multitude of different anterior segment traumas including blunt trauma, penetrating trauma, ruptured globes and chemical injury.

**Corneal Procedures for Today and Tomorrow (04SU5)**
Derek DelMonte, MD, Aurora, CO
Sunday, 12:40 pm-1:30 pm  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1

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  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

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  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

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  
Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1

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  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

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

**Financial interest disclosed**

**BASIC**

**Empowering Glaucoma Patients to Take Care of Themselves (15SU34)**
Paula Newman-Casey, MD, MS, Ann Arbor, MI
Gary Novack, PhD, San Rafael, CA
Alan Robin, MD, Baltimore, MD
Julia Rosdahl, MD, PhD, Durham, NC
Kelly Wood, MD, MHS, Durham, NC
Sunday, 10:20 am-12:20 pm  
Credits: 2 A IJCAHPO, CEP: CABRN-1

Description: Many patients using chronic ocular medication do not take their medication as prescribed—either at incorrect times, more or less often, or fail to correctly use eye drops. Much of this lack of treatment is invisible to the ophthalmologist. This course will discuss the magnitude and nature of this problem, and some evidence-based behavioral strategies to educate and problem solve in a way that enhances patients’ motivation to take control of their health. The course will provide case-based examples so that technicians can practice new behavioral techniques such as reflective listening, summarizing and supporting change talk.

**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  
Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1

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

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

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.

NEW! New Glaucoma Surgeries: Understanding MIGS (07SA4)
Howard Barnebey, MD, Bellevue, WA
Saturday, 11:30 am-12:20 pm

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.

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

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

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

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

NEW! Endophthalmitis Prevention (10SU2)
Neal Shorstein, MD, Oakland, CA
Sunday, 9:10 am-10:00 am

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

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.

ADVANCED

Diabetic Retinopathy: Learn to be a Certified Ophthalmic Imaging Assistant (15SA67)
Donald Fong, MD, Baldwin Park, CA
Saturday, 1:50 pm-3:50 pm

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.

### 12. Neuro-Ophthalmology

**NEW! Understanding Small Incision Lenticule Extraction (10SA3)**
Cheryl Padden, MS, COA, Harveys Lake, PA
Carol-Anne Poursaied, COA, Newark, DE
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 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 should prompt 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.
Neuro-Ophthalmology Testing (02FR4)
Aljoeson Walker, MD, Charleston, SC
Friday, 11:30 am-12:20 pm

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

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?

ADVANCED
NEW! Cranial Nerve Palsies (10SA4)
Steven Newman, MD, Charlottesville, VA
Saturday, 11:30 am-12:20 pm

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

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

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

Description: This course will cover a variety of eye movement abnormalities ranging from life-threatening to party tricks. Conditions such as oposcholus, myasthenia, ocular neuromyotonia and spasm of the near reflex will be covered and illustrated with numerous videos.

Introductory Strabismus (04SA4)
Lisa Vanover, COMT, OSC, Grove City, OH
Saturday, 11:30 am-12:20 pm

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.

INTERMEDIATE
Finding Your Inner Child: Tips for the Pediatric Exam (10SU7)
Emily Remick, COT, Farmington Hills, MI
Susan Perzyk, COA, Romulus, MI
Jennifer Wilson, COMT, Garden City, MI
Sunday, 3:00 pm-3:50 pm

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.

NEW! Identifying and Reporting Child Abuse in the World of Ophthalmology (08SU5)
Brian Forbes, MD, PhD, Philadelphia, PA
Sunday, 12:40 pm-1:30 pm

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

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, FRSCSC, Dipl. ABO, Calgary, AB Canada
Saturday, 12:40 pm-1:30 pm

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.
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! Orthoptic Cases: Things You Won’t See in Orthoptics (15SA2)
Erika Castro Acera, OC(C), San Diego, CA
Saturday, 9:10 am-10:00 am  Credits: 1 A IJCAHPO, AOC-C
Description: This course will cover aspects of the orthoptic exam that one would not normally see in a non-pediatric or non-neuro-ophthalmology clinic. Tips on how to handle these unique and not frequent entities will be covered. Oblique strabismus, dissociated vertical deviations, facial abnormalities and calculating prism, among others, will be discussed.

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.

What Is This? Ocular Findings in Systemic Disease (06SA5)
Michael Stewart, MD, Jacksonville, FL
Saturday, 12:40 pm-1:30 pm  Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1, OPS 1:1
Description: This course discusses the relationship between the eye and important systemic diseases. Eyes have often been called the “window” to the rest of the body, a tribute to the many systemic diseases whose ocular findings can lead to accurate diagnoses. This course discusses the ocular findings and their frequent association with systemic diseases. Financial interest disclosed

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-N, 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 extraocular tissues, e.g., lacrimal glands and eyelids.

NEW! Interesting Cases in Ocular Oncology (04SU7)
Komal Desai, MD, Leawood, KS
Sunday, 3:00 pm-3:50 pm  Credits: 1 A IJCAHPO, AOC-N, 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! Ophthalmic Practice (14SA2)
Charles Slonim, MD, Tampa, FL
Saturday, 9:10 am-10:00 am  Credits: 1 A IJCAHPO, AOC-N, 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.

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14. Ocular/Systemic Diseases

INTERMEDIATE

AIDS and the Ophthalmic Practice (14SA2)
Charles Slonim, MD, Tampa, FL
Saturday, 9:10 am-10:00 am  Credits: 1 A IJCAHPO, AOC-N, CEP: CABRN-1, OPS 1:1
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Description: This course discusses the relationship between the eye and important systemic diseases. Eyes have often been called the “window” to the rest of the body, a tribute to the many systemic diseases whose ocular findings can lead to accurate diagnoses. This course discusses the ocular findings and their frequent association with systemic diseases. Financial interest disclosed

ADVANCED

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.

15. Diagnostic Testing/Imaging

BASIC

Introduction to Contact B-Scan Ultrasonography (EY5)
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON Canada  Credits: 1 A IJCAHPO, AOC-N, 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.

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.
Introduction to Ultrasound Biometry (EY3)
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)
Maria Bretana, CDOS, Katy, TX
Sunday, 10:20 am-11:10 am
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)
Mandi Conway, MD, FACS, Sun City, AZ
Sunday, 1:50 pm-2:40 pm
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)
Donna DuPont, COMT, OSC, Granbury, TX
Saturday, 1:50 pm-2:40 pm
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)
Timothy Bennett, CRA, FOPS, OCT-C, Hershey, PA
Saturday, 11:30 am-12:20 pm
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, goniotherapy, IR reflectance, IR mirography and IR pupillography will be covered.

Better One or Two? (05SU2)
Barbara Harris, PA, MBA, COT, OSC, Hickory, NC
Sunday, 9:10 am-10:00 am
Credits: 1 A IJCAHPO, AOC-NC, 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)
Gus Kohn, COT, ROUB, CDOS, CRA, Austin, TX
Sunday, 9:10 am-10:00 am
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)
Xiaosong Zhu, COMT, Wynnewood, PA
Sunday, 12:40 pm-1:30 pm
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 VEP 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.

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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 eye-piece, 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 McKeheen, CCQA, 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-C, 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

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.

Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1

Visual Field Testing (09SA7)
Suzanne Hansen, ME, COMT, OSC, Frisco, TX
Saturday, 3:00 pm-3:50 pm

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.

Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1

Perimetry Phobia: Don’t Fear the Field (11SA5)
Savory Turman, COMT, OCS, Fort Collins, CO
Saturday, 12:40 pm-1:30 pm

Description: This course will provide technicians the basis of Goldmann and Humphrey perimetry. Discussions will include the importance of visual field testing and the assistance that perimetry gives to diagnosis and treatment of patient conditions. Techniques on how to best gather visual fields and garner patient cooperation will be reviewed. A variety of visual field defects and patterns will be discussed as well as the importance of valid results.

Credits: 1 A IJCAHPO, AOC-C, CEP: CABRN-1

Introduction to Corneal Topography (EY10)
Aaron Shukla, PhD, COMT, (F)ATPO, Saint Paul, MN

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.

Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:2
IJCAHPO Course Descriptions

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-N

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.

INTERMEDIATE

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.
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.  
Financial interest disclosed

**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.  
Financial interest disclosed

**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! Integrating Artificial Intelligence to Advance Ophthalmic Care (04SU1)

**Michael Chiang, MD, Portland, OR**

**Description:** This course will explore the next transformation in ophthalmology with the application of Artificial Intelligence (AI) in diagnosing and treating disease in clinical practice. AI is defined as the engineering of intelligent machines and programs, which are trained to perform tasks by exposing multilayered neuronal networks to vast amounts of data. Effective for image recognition, AI has enormous potential to change the way ophthalmic diagnosis is performed, and is the basis for the first FDA-approved system to detect diabetic retinopathy and diabetic macular edema from fundus photographs. Dr. Chiang, who performs AI research in retinopathy, will review what AI means in augmenting and improving ophthalmologists’ tools to diagnose and manage patients in their clinical practice.

NEW! B-Scan Ultrasonography: Ultimate Scanning Techniques (11SA2)

**Gus Kohn, COT, ROUB, CDOS, CRA, Austin, TX**

**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.

NEW! Grand Rounds: Pediatrics and Strabismus (13SU6)

**Brian Forbes, MD, PhD, Philadelphia, PA**

**Description:** This course will be driven by interesting and unique pediatric ophthalmology and strabismus cases, presented in an open forum format. Both strabismus cases as well as non-strabismus cases centered on pediatric ophthalmology will be presented. The goal will be to enable the participant to become more comfortable with unique pediatric ophthalmology cases and develop a sound method by which to approach such cases.

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.

NEW! Grand Rounds: Case Studies in Ophthalmic Ultrasound (13SA5)

**Brandy Lorek, BS, ROUB, CDOS, Painesville, OH**

**Saturday, 12:40 pm-1:30 pm**

**Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1**

**Description:** Interactive case studies focusing on ophthalmic ultrasound will be presented in a grand rounds format. Standardized echography and ultrasound biomicroscopy (UBM) will be demonstrated as effective diagnostic tools in the clinical practice. Clinical findings and other imaging modalities including fundus photography, angiography and OCT will be correlated with ultrasound findings. Audience participation is highly encouraged and expected.

NEW! Grand Rounds: Case Presentations: Retina (13SA4)

**Edward Lim, MD, Branford, CT**

**Saturday, 11:30 am-12:20 pm**

**Credits: 1 A IJCAHPO, AOC-NC**

**Prerequisite:** Basic knowledge of diabetic retinopathy, age-related macular degeneration and retinal detachments.

**Description:** Three to four challenging cases will be presented in the areas of diabetic retinopathy, age-related macular degeneration, retinal detachments and clinical unknowns. These cases will be presented to challenge the participants and to help them better understand clinical decision making. The role of the ophthalmic technician will be emphasized.

Investigational Pharmacotherapy for Chorioretinal Vascular Conditions (13SU3)

**Michael Stewart, MD, Jacksonville, FL**

**Sunday, 10:20 am-11:10 am**

**Credits: 1 A IJCAHPO, AOC-C, 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: Glaucosa 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 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 retinal detachments and clinical unknowns. These cases will be presented in an open forum format. Both strabismus cases as well as non-strabismus cases centered on pediatric ophthalmology will be presented. The goal will be to enable the participant to become more comfortable with unique pediatric ophthalmology cases and develop a sound method by which to approach such cases.

Integrating Artificial Intelligence to Advance Ophthalmic Care (04SU1)

**Michael Chiang, MD, Portland, OR**

**Sunday, 8:00 am-8:50 am**

**Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1**

**Description:** This course will explore the next transformation in ophthalmology with the application of Artificial Intelligence (AI) in diagnosing and treating disease in clinical practice. AI is defined as the engineering of intelligent machines and programs, which are trained to perform tasks by exposing multilayered neuronal networks to vast amounts of data. Effective for image recognition, AI has enormous potential to change the way ophthalmic diagnosis is performed, and is the basis for the first FDA-approved system to detect diabetic retinopathy and diabetic macular edema from fundus photographs. Dr. Chiang, who performs AI research in retinopathy, will review what AI means in augmenting and improving ophthalmologists’ tools to diagnose and manage patients in their clinical practice.
22. Sub-Specialty Sessions

INTERMEDIATE

NEW! Imaging (12SA23)
Denice 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)
Elisabeth Palkovacs, MD, FRCSC, San Francisco, CA
C. Robert Bernardino, 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, COA, ROUB, OSC, COE, Fenton, MO
Tracy Hodo, COA, 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-C
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.

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
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-5:00 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.
Course Descriptions

IJCAHPO Course Descriptions

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 refactor. Information on recording results will be presented. The following will be covered: 1) introduction to the mechanics of the refactor; 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 Krzesowski, COT, LPN, OSA, Bushkill, PA
Natalie Loyacano, COMT, OSA, CRA, (F)ATPO, Biloxi, MS
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 gowning, gloving and sterile technique.

Tonometry
Eva Kroneker, Encinitas, CA
Gabriele Ortiz, COA, Aldan, PA
Veronica Plessinger, 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.

UMB
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.

INTERMEDIATE
Assisting in Intravitreal Injections
Nickole Delaney, COA, OSC, Columbus, OH
Morgan Walter, COA, Marengo, OH
Refer to Day-at-a-Glance for course times  Credits: 1 A IJCAHPO, AOC-NC, CEP: CABRN-1
Description: This lab will introduce the participants to a practical approach to assisting in intravitreal eye injections and demonstrate prevention strategies to reduce the potential of endophthalmitis. Aseptic techniques, lid prep, room preparation, instrument setup and control strategies will be exhibited while keeping the patient safe and comfortable during the procedures. Participants will take part in and be observed in the practice, processes and properties (knowledge, skills and attributes) to enhance the patient experience.

Cirrus HD-OCT
Connie McKeehen, CCOA, Spokane, WA
Refer to Day-at-a-Glance for course times  Credits: 2 A IJCAHPO, AOC-NC, CEP: CABRN-1, OPS 1:1
Description: This lab will discuss clinical applications of Cirrus HD-OCT, review proper operation of the instrument and how to read the most common analysis options. The lab will focus on basic and advanced operator techniques and overcoming difficult obstacles. It will also cover troubleshooting techniques, including critiquing of current operator technique.
Financial interest disclosed

Contact B-Scan Ultrasonography
Ashley Alexander, COMT, ROUB, CDOS, Kingston, ON Canada
Janae Hines, COA, ROUB, CDOS, Dallas, TX
Grace Melton, COA, OSC, OSA, Batesville, AR
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON Canada
Refer to Day-at-a-Glance for course times  Credits: 1 A IJCAHPO, AOC-NC, OPS 1:2
Prerequisite: The lecture, "Introduction to Contact B-Scan Ultrasonography," is required and is offered in advance of the 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 a basic diagnostic B-scan examination of the eye. Terminology and basic principles of examination will be demonstrated at the instrument. Students will have an opportunity to perform diagnostic B-scan evaluations on each other and to learn proper techniques of examination to provide the physician with a detailed echographic picture of the globe.
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.  
Financial interest disclosed

**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 Meibox 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, 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.  
Financial interest disclosed

**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  
**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.  
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.  
Financial interest disclosed

**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.
Retinoscopy: Plus Cylinder  
Peter Donshik, MD, West Hartford, CT  
Steven Lichenstein, 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  
Andrea 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.  

Soft Contact Lens Skills Transfer Lab (18SA34W)  
Peter Donshik, MD, West Hartford, CT  
William Ehlers, MD, Avon, CT  
Wendy Ford, COMT, FCLSA, NCLEM, Manassas, VA  
Melvin Freeman, MD, FACS, Bellevue, WA  
John Massare, PhD, Dickinson, TX  
Saturday, 10:20 am-12:20 pm  
Credits: 2 A IJCAHPO, AOC-NC  
Description: This is an introductory lab for AOP that want to add soft contact lens fitting to their current skills. The lab will utilize a presentation, videos and computer interactions to teach and demonstrate principals of soft contact lens fitting. The attendee will utilize computer simulation and hands-on schematic eyes with contact lenses to select the appropriate initial contact lenses and evaluate the fit.  

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.  

Visual Fields with the Octopus (16SA23W)  
Sandra Mohring, Mason, OH  
Saturday, 9:10 am-11:10 am  
Credits: 2 A IJCAHPO  
Description: This intermediate lab will combine both educational perimeter points and discussion with hands-on experience view of clinical applications using the Haag-Streit Octopus 900 Pro—both static and Goldmann kinetic methods. The workshop will cover the following: 1) why field testing is so important—from disease to disability; 2) where testing occurs—methods, programs, strategies; 3) what we are viewing in outcomes (explanation of both Octopus and Humphrey printouts); 4) how to obtain the most accurate field possible, regardless of the perimeter used; and 5) hands-on experience view of performing assessments with the Octopus 900 Pro using both Octopus and Humphrey-style static testing as well as Octopus Goldmann kinetic testing.  
Financial interest disclosed
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.

You are invited.
Allergan TechAlliance Presentation and Interactive Discussion
Saturday, October 12, 2019
Parc 55, 55 Cyril Magnin Street,
Embarcadero Room,
San Francisco, CA
Registration: 4:00 pm–4:30 pm
Presentation and Interactive Discussion: 4:30 pm–6:00 pm
(food and beverages will be served)

This event complies with the PhRMA guidelines. Attendance is limited to eye care professionals. Accordingly, we appreciate your support in not bringing a spouse or guest to this program. Healthcare professionals licensed in Vermont may not attend this event due to their respective state laws and regulations that restrict the provision of meals to healthcare professionals. Minnesota state law permits technicians only to attend this event. No other healthcare professional licenses in Minnesota may attend. Government employees may not attend this event due to Federal restrictions on providing meals to government personnel. This event is not affiliated with the official 2019 IJCAHPO ACE Program.
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—Natalie, COMT

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Already certified? Use the coupon to move to the next certification level.*

---

Mid-Gulf Instruments is proud to be a part of the IJCAHPO team, supporting equipment needs for over 20 years!
A complete list of courses, including learning objectives and approved continuing education credits can be found at www.opsweb.org. Courses include lectures, workshops, and panels by ophthalmic imaging professionals. There are new choices in all aspects of ophthalmic imaging. Courses have been approved for OPS & JCAHPO continuing education credits.

New pricing options to accommodate more flexibility and ‘drop-in’ attendance are now available.

**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
- Introduction to OCT-A*
- “Why Certify?”
- History of Retinal Photography*
- Ophthalmic Surgeries*
- 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 Goniography (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 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 Autofluorescence 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 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

**COMPLETE PROGRAM AND REGISTRATION INFORMATION MAY BE OBTAINED BY CALLING THE OPS OFFICE AT 1-800-403-1677, ON THE WEB SITE: WWW.OPSWEB.ORG, OR BY E-MAIL: OPS@OPSWEB.ORG. ALL COURSES AND WORKSHOPS ARE SUBJECT TO CHANGE.**
City Map of Hotels

To secure housing and see details, go to www.aao.org/hotels. Housing for Allied Ophthalmic Personnel opens on June 26.
<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>
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<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>
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<td>0.7 mile</td>
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<tr>
<td>6. Cliff Royal Sonesta San Francisco</td>
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<td>0.8 mile</td>
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<tr>
<td>7. Courtyard San Francisco Downtown</td>
<td>$343</td>
<td>0.4 mile</td>
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<tr>
<td>8. Courtyard San Francisco Fisherman’s Wharf</td>
<td>$469</td>
<td>2.0 miles</td>
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<tr>
<td>9. Courtyard San Francisco Union Square</td>
<td>$282</td>
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<tr>
<td>10. Executive Hotel Vintage Court</td>
<td>$332</td>
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<tr>
<td>11. Fairmont San Francisco</td>
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<td>12. Four Seasons Hotel San Francisco</td>
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<td>13. Galleria Park Hotel</td>
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<td>14. Grand Hyatt San Francisco</td>
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<td>15. Handlery Union Square Hotel</td>
<td>$287</td>
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<tr>
<td>16. Harbor Court Hotel</td>
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<tr>
<td>17. Hilton San Francisco Financial District</td>
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<tr>
<td>18. Hilton San Francisco Union Square</td>
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<tr>
<td>19. Holiday Inn Express Fisherman’s Wharf</td>
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<tr>
<td>20. Holiday Inn Golden Gateway</td>
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<tr>
<td>21. Hotel Abri</td>
<td>$311</td>
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<tr>
<td>22. Hotel Adagio, Autograph Collection</td>
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<tr>
<td>23. Hotel Bijou</td>
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<td>24. Hotel Carlton</td>
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<td>26. Hotel Emblem</td>
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<tr>
<td>27. Hotel Fusion</td>
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<td>28. Hotel G</td>
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<td>29. Hotel Griffon, a Greystone Hotel</td>
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<td>30. Hotel Kabuki</td>
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<td>31. Hotel Nikko San Francisco</td>
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<td>32. Hotel Spero</td>
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<td>33. Hotel Triton</td>
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<td>36. Hotel Vitale</td>
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<tr>
<td>37. Hotel Whitcomb</td>
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<td>38. Hotel Zelos</td>
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<td>39. Hotel Zephyr</td>
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<tr>
<td>40. Hotel Zeppelin</td>
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<tr>
<td>41. Hotel Zetta</td>
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<td>42. Hotel Zoe</td>
<td>$425</td>
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<tr>
<td>43. Huntington Hotel</td>
<td>$399</td>
<td>1.1 miles</td>
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<tr>
<td>44. Hyatt Centric Fisherman’s Wharf</td>
<td>$399</td>
<td>1.9 miles</td>
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<tr>
<td>45. Hyatt Regency San Francisco</td>
<td>$339</td>
<td>1.1 miles</td>
</tr>
<tr>
<td>46. InterContinental Mark Hopkins San Francisco</td>
<td>$355</td>
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<tr>
<td>47. InterContinental San Francisco</td>
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<tr>
<td>48. JW Marriott San Francisco</td>
<td>$378</td>
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<tr>
<td>49. Kensington Park Hotel</td>
<td>$399</td>
<td>0.7 mile</td>
</tr>
<tr>
<td>50. Kimpton Buchanan</td>
<td>$333</td>
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</tr>
<tr>
<td>51. King George Hotel</td>
<td>$299</td>
<td>0.6 mile</td>
</tr>
<tr>
<td>52. Le Meridien San Francisco</td>
<td>$329</td>
<td>0.9 mile</td>
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<tr>
<td>53. Loews Regency San Francisco</td>
<td>$439</td>
<td>0.7 mile</td>
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<tr>
<td>54. Marker San Francisco</td>
<td>$299</td>
<td>0.8 mile</td>
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<tr>
<td>55. Mosser Hotel</td>
<td>$279</td>
<td>0.3 mile</td>
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<tr>
<td>56. Omni San Francisco</td>
<td>$344</td>
<td>0.7 mile</td>
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<tr>
<td>57. Orchard Garden Hotel</td>
<td>$338</td>
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<tr>
<td>58. Orchard Hotel</td>
<td>$327</td>
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<tr>
<td>59. Palace Hotel</td>
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<tr>
<td>60. Palihotel</td>
<td>$380</td>
<td>0.7 mile</td>
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<tr>
<td>61. Parc 55 Hotel San Francisco, A Hilton Hotel</td>
<td>$357</td>
<td>0.6 mile</td>
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<tr>
<td>62. Park Central San Francisco</td>
<td>$335</td>
<td>0.3 mile</td>
</tr>
<tr>
<td>63. Pickwick Hotel</td>
<td>$330</td>
<td>0.4 mile</td>
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<tr>
<td>64. Pier 2620 Hotel Fisherman’s Wharf</td>
<td>$299</td>
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</tr>
<tr>
<td>65. Ritz-Carlton San Francisco</td>
<td>$439</td>
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<tr>
<td>66. San Francisco Marriott Fisherman’s Wharf</td>
<td>$395</td>
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<tr>
<td>67. San Francisco Marriott Marquis</td>
<td>$369</td>
<td>0.3 mile</td>
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<tr>
<td>68. San Francisco Marriott Union Square</td>
<td>$358</td>
<td>0.7 mile</td>
</tr>
<tr>
<td>69. San Francisco Proper Hotel</td>
<td>$395</td>
<td>0.8 mile</td>
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<tr>
<td>70. Sheraton Fisherman’s Wharf</td>
<td>$399</td>
<td>1.9 miles</td>
</tr>
<tr>
<td>71. Sir Francis Drake, A Kimpton Hotel</td>
<td>$366</td>
<td>0.7 mile</td>
</tr>
<tr>
<td>72. St. Regis Hotel</td>
<td>$480</td>
<td>0.2 mile</td>
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<tr>
<td>73. Stanford Court Hotel</td>
<td>$355</td>
<td>0.9 mile</td>
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<tr>
<td>74. Staypineapple San Francisco</td>
<td>$379</td>
<td>0.9 mile</td>
</tr>
<tr>
<td>75. Taj Campton Place</td>
<td>$499</td>
<td>0.6 mile</td>
</tr>
<tr>
<td>76. Tilden Hotel San Francisco</td>
<td>$329</td>
<td>0.7 mile</td>
</tr>
<tr>
<td>77. Villa Florence San Francisco</td>
<td>$339</td>
<td>0.5 mile</td>
</tr>
<tr>
<td>78. Virgin Hotels San Francisco</td>
<td>$515</td>
<td>0.2 mile</td>
</tr>
<tr>
<td>79. W San Francisco</td>
<td>$394</td>
<td>0.1 mile</td>
</tr>
<tr>
<td>80. Westin St. Francis</td>
<td>$355</td>
<td>0.6 mile</td>
</tr>
<tr>
<td>81. YOTEL San Francisco (capsule-type rooms)</td>
<td>$279</td>
<td>0.8 mile</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."
Hotel Floor Plans

Hilton San Francisco Union Square
333 O'Farrell Street, San Francisco, CA 94102

Hotel Floor Plans

Lobby Level

Fourth Floor

Union Square Meeting Rooms 1–25
HILTON SAN FRANCISCO UNION SQUARE ROOM ASSIGNMENTS

LOBBY LEVEL
1. Plaza A & B
   • JCAHPO Courses

BALLROOM LEVEL
2. Imperial Ballroom A & B—Sat 6:30 am-5:00 pm/
   Sun 6:30 am-4:30 pm
   • JCAHPO/CLSA Attendee Registration
   • JCAHPO Resource Center
   • JCAHPO Certification Booth
   • JCAHPO/CLSA Faculty Lounge & Speaker Ready Room
3. Continental Ballroom
   • JCAHPO Courses: 1-9
   • JCAHPO Stein Lecture: 4 & 5
   • JCAHPO Exhibits: Foyer East Lounge
4. Franciscan A-C
   • JCAHPO Courses
5. Yosemite A-C
   • JCAHPO Courses

FOURTH FLOOR
6. Union Square Meeting Rooms
   • JCAHPO 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
   • JCAHPO Limited Attendee Registration & Learning Lab Faculty Check-In
Hotel Floor Plans

Parc 55 San Francisco
55 Cyril Magnin Street, San Francisco, CA 94102

Level Two
- Main Entrance
- Atrium
- Powell
- Market Street
- Sutro
- FedEx
- Divisadero
- Haight
- Main Entrance

Level Three
- Atrium
- Embarcadero
- Powell
- Market Street
- Mason
**Hotel Floor Plans**

**Parc 55 San Francisco**
55 Cyril Magnin Street, San Francisco, CA 94102

**Hotel Floor Plans**

**Level Four**

**Level Two**

1. Sutro
   - ATPO Past Presidents’ Breakfast

**Level Three**

2. Embarcadero
   - UCAHPO Courses
   - Allergan Reception
3. Market Street
   - UCAHPO Learning Labs
4. Mason
   - ATPO Written Review Sessions
5. Powell
   - ATPO Written Review Sessions

**Level Four**

6. Cyril Magnin Ballroom
   - UCAHPO Capstone Lectures
   - ATPO Scientific Sessions/Grand Rounds
   - ATPO Super Tech
7. Stockton—Fri 6:30 am-4:00 pm
   - UCAHPO Fri Attendee Registration & Capstone Faculty Check-In
8. Stockton—Sat 6:30 am-5:00pm/Sun 6:30 am-4:30 pm
   - ATPO Attendee Registration and Faculty Check-In
9. Mission
   - ATPO Train The Trainer
   - CLSA Contact Lens Symposium

**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
Happy 50th Anniversary
International Joint Commission on Allied Health Personnel in Ophthalmology!

DeWitt attorneys see things differently while exploring and creating solutions to our clients’ needs. At DeWitt, we utilize our creativity to offer proactive and effective legal advice in more than 30 areas of law while serving publicly and privately held companies, individual clients, family-owned businesses, municipalities and more. With nearly 140 attorneys practicing in Wisconsin and Minnesota, our firm handles matters for clients nationwide.

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4 out of 5 ophthalmologists say that certified AOP make their practice more productive than non-certified AOP.*

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- Increased my ophthalmologists’ productivity
- Enabled us to see more patients per hour
- Improved the efficiency of our patient flow processes
- Built the eye care team’s ability to troubleshoot, detect errors, and handle difficult triage cases
- Assured a high quality and competent staff

James C. Tsai, MD, MBA
President, New York Eye and Ear Infirmary
Delafield-Rodgers Professor & System Chair
Icahn School of Medicine at Mount Sinai
President-Elect, JCAHPO/IJCAHPO

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- Certified Ophthalmic Technician (COT)
- Certified Ophthalmic Medical Technologist (COMT)
- Ophthalmic Surgical Assisting (OSA)
- Registered Ophthalmic Ultrasound Biometrist (ROUB)
- Certified Diagnostic Ophthalmic Sonographer (CDOS)

Learn more:
651-731-2944
800-284-3937
www.jcahpo.org/certification

*JCAHPO, Woodworth, K. et al., 2008
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IJCAHPO
International Joint Commission on Allied Health Personnel in Ophthalmology

ATPO
Association of Technical Personnel in Ophthalmology

ASORN
American Society of Ophthalmic Registered Nurses

CSOMP/SCPMO
Canadian Society of Ophthalmic Medical Personnel

CLSA
Contact Lens Society of America

OPS
Ophthalmic Photographers’ Society
The Scheie Eye Institute congratulates
IJCAHPO on its 50th Anniversary!

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SingHealth

**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.s nec.com.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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WESTGATE LAS VEGAS – RESORT & CASINO

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