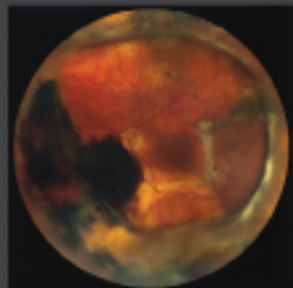
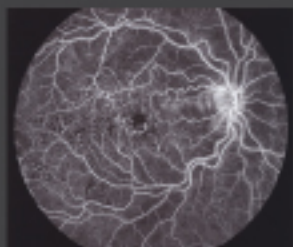




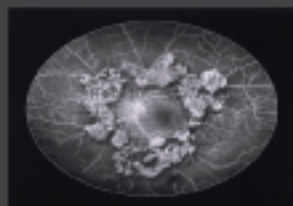
OPHTHALMIC PHOTOGRAPHERS' SOCIETY  
EYE IMAGING EXPERTS



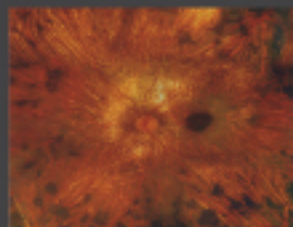
Zlatan Sadikovic, CRA



Bradley A. Stern, CRA, OCT-C



Chris J. Barry, CRA, FOPS



Mizher S Al-Ghamdi, CRA



Hoang Nguyen, CRA, OCT-C, CPT



44TH ANNUAL EDUCATIONAL PROGRAM  
NOVEMBER 15-19, 2013

INTERCONTINENTAL NEW ORLEANS  
NEW ORLEANS, LOUISIANA

# ***2013 PROGRAM SPONSORS***

## **Platinum Contributors**

*Carl Zeiss Meditec, Inc.*

*\*Kowa Optimed, Inc.*

*\*Haag-Streit, USA*

## **Gold Contributors**

*\*Sonomed Escalon*

## **Silver Contributors**

*\*Canon Medical Systems*

*Heidelberg Engineering, Inc.*

*Clarity Medical Systems*

*\*Merge Healthcare*

*\*Fundus Photo, LLC*

*Optos, Inc..*

*\*Topcon America Corporation*

## **Bronze Contributors**

*Ellex*

*Nidek Incorporated*

*TTI Medical*

## **Raffle Items and Supplies**

*Bioptigen, Inc.*

*Heidelberg Engineering, Inc.*

*\*Haag-Streit USA*

*\*Sonomed Escalon*

*TTI Medical*

*Bryson Taylor*

*Carl Zeiss Meditec, Inc.*

## **\*Sustaining Member**

*The Ophthalmic Photographers' Society wishes to express gratitude to these companies and their representatives who furnish financial contributions, equipment, supplies and technical support for the Annual Educational Program. Without their support and enthusiasm the workshops and other portions of this program would not be possible.*

# **NEW and ESSENTIAL INFORMATION!**

## **Online Registration Instructions for the Annual Meeting**

The OPS will again be awarding continuing education credits (CECs) electronically through our website, so it will be necessary for EVERY meeting attendee to be registered through the OPS website as either a member or a non-member meeting attendee. This will be the only way you will be able to receive the credits for this program. If you are a current member of the OPS, please be sure to sign-in to the website before you complete the program registration. **If you do not know your username, please contact Barbara in the OPS Central Office before registering.**

If you are NOT an OPS member and will ONLY be attending this program and want to receive the CEC's, you will need to register on the website before proceeding to the educational program registration. Go to the OPS home page ([www.opsweb.org](http://www.opsweb.org)) and click on "Join OPS" in the upper right corner above the gray-shaded box. You will select the member type "Non-OPS Member – Meeting Attendee ONLY" when you register on the site. You will need to remember the username and password you create so that you will be able to receive your CECs following the educational program.

If you wish to become an active member of the OPS, then you need to join the Society as an Active member **prior** to completing your meeting registration. You may join the Society by clicking on "Join OPS" in the upper right corner of the home page.

After reviewing the course material and deciding which courses you wish to attend, go to the website, sign-in and select "44th OPS Annual Program" from the Calendar on the right side of the home page, or click on the registration link provided on the home page.

Please read the Online Registration Instructions before selecting your courses. Pay close attention to the course start and end times so that you do not select two courses that may overlap. Unlike previous meetings, ticket exchanges are not easily done with this new system. **Please select your courses carefully.** Be sure to use the "Conference-At-A-Glance" sheet to avoid overlapping courses.

After selecting all of the courses you wish to attend, you will proceed to the checkout process. Once payment has been made, you will receive a confirmation of the payment with a list of the courses you selected. Be sure to print out your course confirmation as you will need it when you are at the program. The credit card payment will be a real-time payment meaning your card will be charged immediately upon checkout.

If you have any questions about online registration on the OPS website prior to registering for the annual education program, please contact Barbara in the OPS Central Office at 800-403-1677 or 417-725-0181.

#####

Check out our Annual Program Highlights on the OPS website! We will be sharing information from now until the annual program starts about our educational content, New Orleans tourism suggestions, and other activities related to our annual program.

[www.opsweb.org/blogpost/977034/Annual-Program-Highlights](http://www.opsweb.org/blogpost/977034/Annual-Program-Highlights)

**November 15-19, 2013**  
**InterContinental New Orleans Hotel**  
444 St. Charles Avenue  
New Orleans, Louisiana 70130

For Hotel Accommodations contact the AAO Housing Office online at [www.aao.org](http://www.aao.org)

## **Registration Information**

### ***Pre-Registration***

To pre-register, **online registration must be completed by October 25th, or the printed registration form must be received by October 25th.** Pre-registration saves you time and money and increases the chance that you will receive all requested classes and workshops. Additional forms are available from the OPS Membership Office by calling 1-800-403-1677 or 417-725-0181, and from the OPS website at [www.opsweb.org](http://www.opsweb.org). Acceptable forms of payment are checks in U.S. dollars, Visa, Mastercard, Discover or American Express. **If you pre-register, you must pick up your registration materials in the on-site registration area.** OPS membership is not a requirement to attend the annual educational program; however, you must register on the OPS website as a 'non-member meeting attendee only' to be able to complete the online course evaluations and receive the CECs following the program.

### ***General Registration Fee***

You must pay the general registration fee to register for courses. The general registration includes admission to special events - the Scientific Paper Session, the Awards Presentation, the Welcome Reception and the J. Donald M. Gass Memorial Lecture.

### ***Workshop Lecture "WSL" Course Registration***

Many workshops have lecture prerequisites. You must register for both the lecture and workshop components. Lecture material will not be presented during the workshops. **You are required to complete the workshop lecture before the workshop.** Workshop lectures are marked "WSL" in the course descriptions.

### ***Course Handouts***

Each speaker has been given the option of providing course handouts that will be made available online. Please go to the OPS website at [www.opsweb.org](http://www.opsweb.org) approximately two weeks before the meeting to find these handouts. For the speakers not

participating in the online handout, it is their responsibility to provide paper handouts during the course. Not all speakers provide handouts (either electronic or printed.)

### ***On-Site Registration***

The on-site registration area will be located in Acadian I & II and will be open Thursday 1:00 pm - 6:00 pm; Friday, Saturday and Monday 7:30 am - 5:00 pm; Sunday 7:30 am - 4:00 pm; and Tuesday 8:00 am -11:00 am. Registration will be extremely busy at the start of the program on Friday and Saturday so please plan to register at least one hour prior to your first course.

### ***Refund Policy***

Cancellations prior to October 25, 2013 will incur a \$50.00 cancellation fee. Pre-registration meeting, course and workshop fees will not be refunded after October 25, 2013. Course tickets may be exchanged for tickets of equal value depending upon availability. Fees will not be refunded nor will tickets be exchanged after the event has begun.

### ***Continuing Education Credit***

Approved OPS continuing education credits are listed at the end of each course description. This program has been submitted to JCAHPO for consideration of CE credit. The OPS website will also list the approved credits for each course ([www.opsweb.org](http://www.opsweb.org)). Continuing Education Credit will be awarded to all registrants who present a ticket for admission at the beginning of the course, attend the course, and properly complete the online course evaluation surveys at the conclusion of the course. CEC documentation will only be available to each registrant through their OPS website registration or member profile. It will take approximately four to six weeks to verify attendance for the surveys completed.

(This program is not sponsored by JCAHPO; only reviewed for compliance with JCAHPO standards and criteria and awarded continuing education credit accordingly; therefore, JCAHPO cannot predict the effectiveness of the program or assure its quality in substance and presentation. This is proprietary information presented to allow students to master a specific task or process. Alternatives to this technology may exist and a well-informed technician should have knowledge of those alternatives as well.)

# 2013 Educational Program Team

## *General Chairman*

**Kirsten Locke, CRA, RN, FOPS**  
Retina Foundation of the Southwest  
9600 N. Central Expressway, Suite 200  
Dallas, TX 75231  
(214) 363-3911  
email: kglocke@meistro.net

## *Registration, Pre-registration and Sponsorship*

**Barbara McCalley, Executive Director**  
OPS Membership Office  
1887 W. Ranch Rd.  
Nixa, MO 65714  
1-800-403-1677 or (417) 725-0181  
email: ops@opsweb.org

## *Equipment Coordinator*

**James Soque, COA, CRA**  
Island Retina  
1500 William Floyd Parkway, Suite 304  
Shirley, NY 11967  
(631) 924-4300  
email: jsoque@hotmail.com

## *Audio-Visual Coordinator*

**Hoang Nguyen, CRA, OCT-C**  
4790 S. Upham Ct.  
Littleton, CO 80123  
(303) 984-0189  
email: emailforeyefriends@yahoo.com

## *Workshop Co-Coordinator*

**James Soque, COA, CRA**  
Island Retina  
1500 William Floyd Parkway, Suite 304  
Shirley, NY 11967  
(631) 924-4300  
email: jsoque@hotmail.com

## *Room Monitor Coordinator*

**Laura Savage, COMT, CRA**  
Dartmouth Hitchcock Clinic  
Eye Services  
100 Hitchcock Way  
Manchester, NH 03104  
(603) 934-6011  
email: ops.roommonitor@gmail.com

## *Education Chairman*

**Hoang Nguyen, CRA, OCT-C**  
4790 S. Upham Ct.  
Littleton, CO 80123  
(303) 984-0189  
email: emailforeyefriends@yahoo.com

## *Scientific Session Coordinator*

**Cynthia VandenHoven, BAA, CRA**  
Hospital for Sick Children  
555 University Avenue, M161  
Dept Ophthalmology & Vision Sciences  
Toronto, ON M5G 1X8 Canada  
(416) 813-6523  
email: Cynthia.vandenhoven@gmail.com

## *Don Wong Award Coordinator*

**Denise Cunningham, CRA, RBP, Med, FOPS**  
National Eye Institute of NIH  
Bldg. 10, Rm 10C401  
10 Center Drive, MSC 1863  
Bethesda, MD 20892  
(301) 594-7065  
email: cunninghamd@nei.nih.gov

## *Scientific Exhibit Print Division*

**Jim Strong, CRA**  
Penn State Hershey Eye Center  
500 University Drive  
UPCI Suite 800, HU19  
Hershey, PA 17033-0850  
(717) 531-0003 ext. 283348  
email: jstrong1@hmc.psu.edu

## *Scientific Exhibit Stereo Division*

**Heather Carmello, CRA**  
Everett and Hurite Ophthalmic Association  
1835 Forbes Avenue  
Pittsburgh, PA 15219  
(412) 288-0885  
email: hcarmello@everett-hurite.com

## *Scientific Exhibit Booth Coordinator*

**Allison Schmidt, CRA**  
4040 Avondale Avenue, #302  
Dallas, TX 75219  
(281) 451-9574  
Email: ophthal1@hotmail.com

Dear Colleagues,

It is my pleasure to welcome you to the 44<sup>th</sup> Annual Education Program in New Orleans. This year, the “Big Easy” will be the host city for our program. The city offers much to see and amazing food to enjoy, while we learn and share our knowledge with our colleagues.

With the increasing changes in the ophthalmic imaging field, the OPS strives to keep up with these changes, offering a variety of courses from beginner to those who are more advanced, with opportunities to analyze and experiment with the latest technology. This year, the OPS offers a whole day “crash course” in ophthalmic imaging to those who are new to this career path and need to establish a good foundation in the field. For those who are established in the field, the OPS programs are the opportunity to hear the latest advances and to share knowledge with others. There are also courses to stimulate those who are fascinated by the medical aspects of ophthalmic photography, and the latest discoveries in disease management. Year after year, world-renowned speakers have been supporting the OPS by lecturing at our programs. This year is no exception. The cast of speakers includes Drs. Sanjay Asrani, Stuart Coupland, Michael DellaVecchia, Kathleen Digre, Yale Fischer, Gary Fish, Carl Glittenberg, Calvin Mein, William Mieler, and Rosalind Stevens just to list a few. Also, new speakers to the OPS this year are Drs. Natalie Afshari, Irene Barbazetto, Andrew Doan, Sander Dubovy, Jason Porter and Trexler Topping who are lined up and ready to share their insight. The keynote speaker for the J. Donald M. Gass M.D Memorial Lecture is Dr. Suber Huang, a world-renowned ophthalmologist and researcher.

I am very honored to have been the Education Chair for this year’s program. It is my way to say “thank you”, and to give back to the OPS. The information needed to perform at the highest level is not easily gleaned from books. I am thankful to the OPS for giving me the tools to further my career. I hope that you will find this year’s program exceeds your expectations, and provides you a wealth of information to propel you on your own path.

See you in New Orleans!

*Hoang*

Hoang Nguyen, CRA, OCT-C  
Education Chair  
OPS 44<sup>th</sup> Annual Education Program

# **SPECIAL EVENTS & ORGANIZATIONAL MEETINGS**

*OPS Members are welcome and encouraged to attend Board and committee meetings of the Society.*

## **Thursday, November 14th**

**Board of Education - Pelican II** - Pre-program meeting to finalize annual program details.

## **Friday, November 15th**

**Room Monitor Orientation - 8:00 am - 9:00 am - Pelican II** - Conducted by Laura Savage, COMT, CRA.

**Professional Development Committee (PDC) - 12:15 pm - 1:00 pm - Pelican II** - The PDC is a great committee to start with if you are interested in getting involved in the OPS. At this meeting, we'll review our accomplishments of the past year, finalize the logistics of our projects during the annual program, and discuss future projects. Please contact Sarah Moyer at [smoyer@gmail.com](mailto:smoyer@gmail.com) if you are interested in attending.

**Scientific Paper Session - 5:00 pm - 6:30 pm - LaSalle Ballroom A** - This is our highly respected paper session featuring current research and innovations by ophthalmic professionals. The prestigious Don Wong Award will be given to the outstanding paper of the session. It's a wonderful educational opportunity! A published collection of the abstracts will be available at the session. Continuing education credits will be awarded to those attending this session. General registration is required to attend this session.

**Awards Presentation - 6:30 pm - 7:00 pm - LaSalle Ballroom A** - Immediately following the Scientific Paper Session the awards for Best Journal Article of 2012, the Scientific Exhibit's Csaba Martonyi Best of Show and Best of Division and the Johnny Justice Jr., Scholarship will be presented. The newly elected Fellows and new CRAs and OCT-Cs will also be announced. Please join us as we honor our Award winners! (Included as part of the general registration fee.)

**Welcome Reception - 7:00 pm - 9:00 pm - LaSalle Ballroom B & C** - It's the perfect way to kick off all of your important evening social events while in New Orleans - It's the OPS Social Event of the Year!

On Friday evening, the Welcome Reception will immediately follow the awards presentations. Your registration for the educational program will be your ticket to this special soiree, filled with fun, friends, food, and all good things OPS. You can even bring a friend by purchasing a guest-ticket with your registration. Come partake of good New Orleans fare, bask in the incredible award winning images from our 2013 Scientific Exhibit, and share in congratulating the Csaba Martonyi, and Best Journal Article winners, as well as our newly elected Fellows and newly minted CRAs and OCT-Cs that will be announced just prior to the start of the reception during the Awards Presentations. You may also enjoy viewing the personal photos of some of our OPS members. Don't forget the raffle to support the OPS Endowment Fund which funds the Johnny Justice Jr. Scholarship. Please join us for this festive start to a great educational program!

## **Saturday, November 16th**

**Fellowship Committee - 7:15 am - 8:15 am - Pelican II** - Annual business meeting conducted by the OPS Fellows. Contact Peter Hay, CRA, FOPS regarding agenda items. More information will follow in a separate mailing.

**Scientific Exhibit Committee - 9:45 am - 11:15 am - Pelican II** - Conducted by Jim Strong.

**Get to Know Your Society - 11:15 am - 12:15 pm - LaSalle Ballroom B** - an open roundtable discussion to help you learn more about the Ophthalmic Photographers' Society and see what opportunities are available for you to get involved in the Society.

***The Ninth Annual J. Donald M. Gass Memorial Lecture – 4:00 pm - 5:00 pm – LaSalle Ballroom A***

The J. Donald M. Gass Lecture honors the memory of the man who pioneered the use of fluorescein angiography to expand our understanding of a wide variety of retinal disease processes. This year's lecture will be presented by Suber S. Huang, MD., MBA. Dr. Huang obtained his medical training in 1985 from the Albert Einstein College of Medicine, and his MBA in 2004 from the Weatherhead School of Management, Case Western Reserve University. He completed his ophthalmology residency training at the Wilmer Ophthalmological Institute, Johns Hopkins University, and a fellowship in vitreoretinal diseases and surgery from the Bascom Palmer Eye Institute at the University of Miami. Dr. Huang joined the Department of Ophthalmology and Visual Sciences at University Hospitals of Cleveland/Case Western Reserve University in 1993. In 1999, he founded the Retinal Diseases Image Analysis Reading Center at University Hospitals Case Medical Center. Dr. Huang is currently Vice-Chairman, Director of Center for Retina and Macular Disease of the University Hospitals Eye Institute and is Director of Ophthalmology Clinical Research Programs. In 2010, Dr. Huang was elected President of the American Society of Retina Specialists and Chair of the Foundation of the ASRS. In 2012, he founded the ASRS Retinal Image Bank which will become the world's largest and most comprehensive open-access repository of retinal images and video. Dr. Huang's honors include the achievement and senior honor awards from the American Academy of Ophthalmology and the American Society of Retina Specialists.

*You won't want to miss this important lecture which is included in the general registration fee.*

**Journal Editorial Committee - 5:30 pm - 6:30 pm - Pelican II** - Conducted by Journal Editor, Chris Barry, CRA, FOPS.

**Sunday, November 17th**

**“Why Certify?” - 12:30 pm to 1:30 pm - Pelican I** - Conducted by the Board of Certification.

You may know why, but do you know how? Members of the Board of Certification will be present to answer your questions about the CRA™ and OCT-C programs. You will have the opportunity to learn what makes a portfolio submission acceptable, hear about the examination experience and learn the advantages of becoming certified. This is a come and go as you wish session, so stop by, meet your Board of Certification, and get the right answers to your certification questions. Earn your imaging credentials from the *Eye Imaging Experts!* Please join us and learn more!

**OPS Membership Meeting - 4:30 pm - 6:00 pm - Pelican I** - This is the annual meeting of the OPS membership, where the projects and progress of the Society are reported and discussed. This meeting will not only cover OPS business, but emphasize member participation in the Society. Help decide how the OPS can best serve our profession by supporting the Society with your presence and your participation. Contact President Robert Cavicchi, CRA, FOPS, c/o OPS Membership Office, (800) 403-1677, for information about adding items to the meeting agenda.

**CRA Performance Examination - scheduled by appointment with the BOC - Vieux Carre** - Conducted by the Board of Certification. Please be prepared to take your exam during a one hour slot that will be assigned by the BOC once all requirements for examination have been met. The number of examination slots will be limited by the BOC so please apply as soon as possible. Please contact Rich Cornwell, CRA, OCT-C (cra@opsweb.org or cra.chair@gmail.com) for more information.

**CRA and OCT-C Written Examination** - All CRA and OCT-C written examinations are offered at testing centers. You will need to select a testing center in your geographical area. All requirements must be met prior to scheduling your written examination with the BOC. Dates and times will be determined by the candidate. Please contact Richard Cornwell, CRA, OCT-C, ROUB (cra@opsweb.org) or Gary Miller, CRA, OCT-C (oct.c.chair@gmail.com) for information on how to schedule your written exam.



# 44th Annual Educational Program

**FRIDAY, NOVEMBER 15th**

9:30 am – 4:30 pm  
(12-1:00 will be a lunch break)

9:30 am – 10:30 am

**FR-1-A Pelican I**  
**Pediatric OCT in the OR**  
*Ditte Hess, CRA, FOPS*

This course will introduce the attendees to the hand-held SD-OCT systems (Biotigen and OptoVue) used in the OR setting for pediatric patients undergoing an Exam Under Anesthesia, and how it enables the assessment of vitreoretinal and corneal changes. Tips and techniques on how to obtain the best scans under unusual and sometimes difficult circumstances will be discussed. At the end of the course attendees should be able to determine the best OCT technique to document a variety of pediatric retinal/external diseases.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**FR-1-B LaSalle Ballroom C**  
**Hi-Tech Spanish for Ophthalmic Photographers**  
*Marcela Hickey, CRA, FOPS*

This course is for the English-speaking ophthalmic photographer who occasionally has non-English speaking patients. Translation technology will be introduced highlighting the latest technology to assist the ancillary personnel. Key phrases will be taught in Spanish to enable the photographer to manage the patient at the fundus camera or slit lamp, and help the patient understand the process of having an eye photographed, thereby increasing patient cooperation. At the end of this course, the student will be able to communicate common phrases used in Ophthalmology in Spanish as well as describe or use available translation technology.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**FR-1-C LaSalle Ballroom B**  
**Crash Cart for the Ophthalmic Photographer**  
*Michael DellaVecchia, MD*

This lecture will review the classification and frequency of adverse reactions following the intravenous injection of sodium fluorescein and indocyanine green dyes. Recognition of adverse reactions following angiography and the role ophthalmic photographers play in the management of the critically ill patient will be discussed. Participation by the attendees is encouraged. An overview of the essential contents of a crash cart will be presented. At the end of this course, the student will be able to identify the frequency and stages of adverse reactions following ophthalmic photography procedures.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**FR-1-D LaSalle Ballroom A**  
**Ophthalmic Imaging Crash Course**

*Sarah Moyer, CRA, OCT-C-Moderator; Kirsten Locke, CRA, FOPS, RN; Melanie Zuckero, CRA, OCT-C; Laura Savage, COMT, CRA; James Soque, CRA, COA; Michael P. Kelly, FOPS*

This intensive six (6) hour course is intended to help individuals who are completely new to ophthalmic imaging understand ophthalmic imaging basics. It will also help technicians taking on a larger imaging role in their offices. After an introduction to anatomy and physiology specific to the ophthalmic imager, attendees will go through a series of lectures and workshops on Optical Coherence Tomography (OCT), fundus photography, and fluorescein angiography. The course will wrap up with a lecture on the many other imaging modalities available in ophthalmology and suggestions on transitioning into the field. At the end of this course, students will have completed three hours of lectures and three hours of workshops. Students will be able to summarize the role of the ophthalmic imager, have a basic understanding of anatomy and physiology as it pertains to imaging the fundus, and they will be able to apply the newly gained knowledge during hands-on sessions where they are able to perform OCT, fundus photography and mock fluorescein angiography. **NOTE: This course is designed for attendees with 0-6 months of imaging experience.**

**CEC OPS 6; JCAHPO-A 6 \$200.00**

10:45 am – 11:45 am

**FR-2-A Pelican I**  
**Healthcare – The Big Picture**

*Trexler Topping, MD, Chair, AAO Health Policy Committee, Cherie McNett, Director, AAO Health Policy Committee*

This lecture will focus on the global administrative changes taking place in Healthcare. As imagers or technicians performing ancillary testing services, we are affected by implementation of these policies and programs as they may change and shape our jobs in the future. Topics such as Meaningful Use, the Healthcare for America Plan (Obamacare), and other regulatory issues being currently dealt with at the AAO Health Policy Committee will be discussed during this lecture. At the end of the lecture the student will be able to list and outline various incentive programs currently administered by CMS and discuss potential future changes pertaining to health care administration.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**FR-2-B LaSalle Ballroom C**  
**On Different Wavelengths: The Spectrum of Retinal Imaging**

*Timothy J. Bennett, CRA, OCT-C, FOPS*

Modern retinal imaging incorporates a variety of monochromatic filters or lasers to maximize diagnostic information. By limiting the spectral range of the illuminating source, the visibility of various retinal structures can be enhanced and certain wavelengths also excite fluorescence. This course will describe the wavelengths and filters used in scanning laser ophthalmoscopes (SLO) and fundus cameras for monochromatic imaging, angiography, and fundus autofluorescence. Differences between fundus camera techniques and the SLO will be presented. Upon completion of this course, the student will be able to describe the principles of fluorescence and monochromatic illumination, list commonly used wavelengths for retinal imaging, and describe their effect on visualization of fundus structures.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**FR-2-C LaSalle Ballroom B**  
**Ocular Emergencies**

*Michael DellaVecchia, MD, PhD*

This course will discuss the most common ocular emergencies and what types of photography or documentation is necessary and useful. It will contain photographs of eye injuries that will definitely leave a lasting impression! More importantly, the course will discuss the value of preventative measures and how to recognize those situations when quick action is most beneficial. At the conclusion of this course, the student will be able to recognize common ocular emergencies, list potential preventative measures, and describe the photographic documentation that is most appropriate in different situations.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

*12:00 pm – 1:00 pm*

**FR-3-A Pelican I**  
**Pediatric Ophthalmology: Common and Rare Conditions and Approach to Imaging**

*Cynthia VandenHoven, BAA, CRA*

Pediatric ophthalmology, a multi-specialty sub-specialty, presents the ophthalmic photographer with a wide range of pathologies, patient dispositions, and unique imaging challenges. Knowledge of normal ocular development and common pediatric conditions guides the imaging plan. Understanding of the main goals and objectives of the imaging request and age-appropriate patient management strategies plays a critical role in the success of a session. An imaging plan composed of careful selection of imaging systems based on capabilities and shortcomings along with creative alternatives will be discussed. At the end of this course, the ophthalmic photographer will be presented with a range of pediatric

conditions and be able to identify methods and selection criteria of the wide range of imaging modalities that are most suited for the pediatric patient.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**FR-3-B LaSalle Ballroom C**  
**Retinal Surgical Videos**

*Calvin Mein, MD*

Photographers and technicians are often asked to image patients who are about to undergo retinal surgery or who are recovering from one. Understanding the intervention rounds out the ophthalmic photographer's or technician's understanding of the pathology and its management. This course will present videos of retinal surgery. Cases include vitrectomy for retinal detachment repair, vitrectomy and McCannel sutures for repair of posteriorly dislocated IOL's and other interesting surgical cases. The student will observe through video demonstrations the complex microsurgical manipulations used in posterior eye surgery. At the end of this course, students will be able to list several retinal surgical procedures and describe in general terms how they are performed.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**FR-3-C LaSalle Ballroom B**  
**Advanced Fundus Autofluorescence Imaging**

*Denise Cunningham, CRA, FOPS*

Initially utilized as an adjunct to retinal photography and ocular angiography, fundus autofluorescence (FAF) has become an essential imaging modality in its own right. This **advanced** presentation will compare and contrast the two commercially available instruments used in FAF image capture, with an emphasis on the complementary attributes of the resultant images. Novel FAF imaging techniques, such as retinal pre-bleaching, multispectral imaging, and macular pigment mapping, will be introduced along with methods for obtaining standardized reproducible visual data. At the conclusion of this lecture, the student will be able to elaborate on the characteristics of images obtained from different instruments, describe several advanced imaging techniques and explain their application.

**OPS CEC 1; JCAHPO-A 1 \$25.00**

*1:15 pm – 2:15 pm*

**FR-4-A Pelican I**  
**Rare Case Symposium**

*Michael P. Kelly, CPT, FOPS - Moderator*

The ability to produce photographic documentation of rare diseases is facilitated by knowledge of both the ocular manifestations and the photographic techniques. This symposium will feature several experienced ophthalmic photographers presenting rare or uncommon disorders of the eye. Through case presentations, understanding of the particular disease as well as the appropriate approach to photo-documentation will be gained. At the end of this course, the student will be able to list at least five rare

ocular disorders seen in ophthalmology practices, and identify the steps for better image capture of these disorders.

**OPS CEC 1; JCAHPO-A 1 \$25.00**

**FR-4-B LaSalle Ballroom C**  
**Correlation / Discrepancy between Fluorescein**  
**Angiography and OCT**

*Ethan Priel, FOPS*

Fluorescein angiography (FA) and optical coherence tomography (OCT) display widely divergent findings of the human fundus, while being the two most common diagnostic imaging tests used today. OCT, despite being the 'newcomer, is very often replacing FA in the follow-up of many retinal diseases, and in some cases at the initial stages of evaluation and diagnosis as well. As a result of this, some key features of pathology might be overlooked, and the added benefit of evaluating the complimentary nature of multi-modal diagnostic tests is missed out on. This course will present a retrospective review of cases imaged both by FA and OCT, both simultaneously and separately. At the end of this course the attendee will be able to list and compare the imaging modalities for their ability to best reveal disease-specific findings. The students will have an enhanced understanding of retinal anatomy, pathology and treatment.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**FR-4-C LaSalle Ballroom B**  
**SD-OCT - More Than Just a Pretty Picture**

*Karl Csaky, MD*

This course will introduce the participants to the various retinal structures identified on SD-OCT images. The use of quantitative measures for these retinal structures will be discussed and the steps in the future care of patients with retinal diseases will also be addressed. Steps to improve image quality needed to quantify these structures will be presented as well as case studies, which are used to highlight concepts presented in this course. At the conclusion of this lecture, the student will be able to identify the structure of the retina as seen on an OCT image. He/she will be able to discuss how information from OCT aids in the analysis and management of retinal disease, as well as outline characteristics of good quality images.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

2:30 pm - 3:30 pm

**FR-5-A Pelican I**  
**Corneal Image Analysis for the Ophthalmic**  
**Photographer**

*Beth Ann Benetz, CRA, FOPS*

This course will provide an overview of instruments available for imaging the cornea, pros and cons of each instrument as it relates to analysis, and a discussion of which corneal layers or pathology are best captured with which type of instrument to obtain the most reliable data.

A variety of corneal image analyses methods and common analysis errors will be demonstrated with emphasis on accurate technique. Specific best practices for analysis will be addressed. At the conclusion of this lecture the students will be able to list at least three instruments used to image and evaluate the cornea and they will be able to compare and contrast their functionality. The student will also be able to elaborate on various analysis functions including some potential pitfalls.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**FR-5-B LaSalle Ballroom C**  
**Differentiation Between Types of CNV**

*Carl Glittenberg, MD*

This course differentiates between the types of CNV (Type 1, Type 2, and Type 3) as seen in angiography and OCT. This course will include a summary of the different nomenclature, for example "Type 1" "occult" or "Type 3" and retinal angiomatous proliferation (RAP). It will also include examples of OCTs and Angiographies of each type and an explanation from an anatomical point of view what the differences are. This course will also include explanations of polypoidal lesions as well as CRCS, and why correct imaging is essential to the correct treatment. At the conclusion of the course, the attendee will be able to recognize the different types of CNV and the correct treatments for each type.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**FR-5-C LaSalle Ballroom B**  
**ICG- High Speed Indocyanine Green Angiography**

*Karl Csaky, MD*

High speed indocyanine green (ICG) angiography has the ability to identify vascular structures not found on standard fluorescein angiography. This imaging tool is useful in many diseases in which choroidal vascular changes are found including neovascular age-related macular degeneration, polypoidal choroidal vasculopathy and central serous choroidopathy. Identifying lesions with ICG can not only help in the diagnosis of these diseases, but in many cases it will guide therapy. At the end of this lecture, students will be able to describe the clinical importance of ICG in the care of patients presenting with varying retinal diseases, and list different characteristics of ICG angiography.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

3:45 pm — 4:45 pm

**FR-6-A Pelican I**  
**Pre-and Post Injection Techniques: Hemodynamic**  
**Flow of Dye**

*Kirsten Locke, RN, CRA, FOPS; Paul Paquette, CRA, FOPS*

Prerequisites: **Basic knowledge of the angiographic procedures performed in ophthalmic photography.** Students will learn tray preparation of angiographic dyes, basic techniques of venipuncture, tips on locating difficult veins, the dye pathway from injection to excretion, understand the difference between vessel types,

recognition of some common side effects and adverse reactions, and their associated emergency procedures. The philosophical and legal consideration will also be discussed. At the end of this course, the students will be able to prepare an IV tray for angiographic procedures, describe basic venipuncture techniques, explain the hemodynamics of the circulatory system, and list common side effects including first aid procedures.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**FR-6-B LaSalle Ballroom C  
3D OCT: The Next Level**

*Carl Glittenberg, MD*

This **advanced course** will compare three dimensional ultra high resolution optical coherence tomography (UHR-3D-OCT) to spectral domain OCT (SD-OCT) and time domain OCT (TD-OCT). Clinical and surgical benefits from ray-traced, three-dimensional reconstruction of Cirrus SD-OCT data will also be discussed. At the end of this course, students will be able to compare UHR-3D-OCT, SD-OCT and TD-OCT technologies and describe how ray-traced three-dimensional reconstruction of OCT data can help in the clinical and surgical assessment of the patient.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**FR-6-C LaSalle Ballroom B  
Retinal Imaging- A Perspective and Clinical Approach**

*Yale F. Fischer, MD*

This course will review how ophthalmic imaging is important in the treatment of eye diseases. How the use of ultrasonography, ophthalmic coherence tomography and the introduction of high resolution digital images including adaptive optics and metabolic imaging have increased our ability to understand and find treatments for patients with ophthalmic disease. Challenging case studies, using ophthalmic images and movies of these multi-imaging techniques will be discussed. At the end of this course the student will be able to better identify and understand some of the current limits and future potential of retinal imaging.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

*5:00 pm – 6:30 pm*

**Scientific Paper Session\***

**LaSalle Ballroom A**

**CEC OPS 1.5; JCAHPO-A 1.5**

*6:30 pm – 7:00 pm*

**Awards Presentations\***

**LaSalle Ballroom A**

*7:00 pm – 9:00 pm*

**Welcome Reception\***

**LaSalle Ballroom B & C**

**SATURDAY, NOVEMBER 16th**

*8:30 am – 9:30 am*

**SA-1-A WSL Pelican I  
Wide Angle Imaging**

*Cynthia VandenHoven, BAA, CRA- Moderator;  
Eric Kegley, CRA, COA; Denis Bezaire, CRA*

This lecture will introduce three instruments that can be used to image the (far) periphery of the eye. The Heidelberg Spectralis, utilizing a handheld Staurengi lens, the Optos Ultrawide Imaging System, and the Retcam. The technology will be introduced by photographers who currently use the systems in their practice. They will elaborate on principle features of each technology, and identify key applications and controls of the instruments. At the conclusion of this lecture, the students will be able to discuss situations in which each of these technologies would be useful, as well as discuss some of the advantages and limitations of each instrument. The student will also be able to list some key considerations for operating the equipment. **This lecture is required if you wish to take the corresponding workshop, SA-2-E-WS.**

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**SA-1-B LaSalle Ballroom C  
Application of Descriptive Interpretation of  
Fluorescein Angiography**

*Paula F. Morris, CRA, FOPS*

This is a course for **basic to intermediate** imagers that introduces the terminology used to describe circulatory patterns in the eye as shown by fluorescein angiography. Fluorescein angiography is the cornerstone of ophthalmic photography in that 87% of ophthalmic imagers perform fluorescein angiography routinely. Knowledge of the circulation patterns in retinal and choroidal disease is essential to producing high quality studies, which will assist the physician in selecting treatment. Interpretation of angiographic studies using descriptive terms is a fundamental skill, which increases understanding of normal and abnormal patterns and the circulation dynamics causing them. At the end of this course, students will be able to explain the difference between hypo- and hyper-fluorescence, and identify abnormal patterns of fluorescence.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**SA-1-C WSL LaSalle Ballroom B  
Introduction to Fundus Photography**

*Brice Critser, CRA*

Struggling to improve your fundus photography? Think it's too difficult? Think again. This course will provide a basic overview of the process of photographing the ocular fundus as a precursor to the comprehensive workshop. Anatomy of the fundus camera, troubleshooting, and a guide to color fundus photography will be discussed. Basic protocols for fundus photography and the patient encounter will be reviewed. At the end of this course, the

\*This event is included in the general registration fee; however, you may purchase guest tickets if you wish to bring someone who isn't registered for the program.

student will be able to identify the anatomy of the fundus camera, and list the protocols for basic capture of images. **This lecture is required if you wish to take the corresponding workshop, SA-2-F-WS**  
**CEC OPS 1; JCAHPO-A 1 \$25.00**

9:45 am – 11:15 am

**SA-2-A Pelican I**  
**How to Create an Online Educational Module**

*Kirsten Locke, RN, CRA, FOPS*

Viewlet Builder 7 is a powerful software package capable of creating interactive educational modules in the same way one might create a lecture in PowerPoint. This course will review the different functions within the program as well as review the special considerations when publishing online, such as copyright and using other people's materials. At the end of this course, students will have a basic understanding of the copyright rules as they pertain to online modules. They will also have insight into the following Viewlet functions: how to enter text, images and movies; how to control these events on an expandable timeline; how to create interactive rollover areas and action zones; and how to record and add sound.

**Students are welcome to bring their own laptops and follow along exploring the software. CDs will be available with a free version of the Viewletbuilder 7 Enterprise software.**

**CEC OPS 1.5; JCAHPO 0 \$38.00**

**SA-2-B LaSalle Ballroom C**  
**Descriptive Interpretation of Fluorescein Conference**

*Michael P. Teske, MD; Paula F. Morris, CRA, FOPS*

This course is a complement/continuation of the "Application of Descriptive Interpretation of Fluorescein" lecture, taking the knowledge of descriptive terms learned there, and applying them to interpret actual angiographic studies. After a short review of the circulation dynamics of fluorescein angiography, this course will feature a descriptive interpretation session (a photographers' version of fluorescein conference) where audience participation will be encouraged. Students will be mentored through the process of angiographic interpretation with descriptive terms. Coaching on the "How To" of participation in the session will be provided. At the end of this course, students will be able to list the circulation phases of the retina and choroid, define and give examples of hypofluorescence, and hyperfluorescence. In addition they will be able to describe the common variants of transmission and circulation, and interpret an angiographic study with proper descriptive terms.

**CEC OPS 1.5; JCAHPO-A 1.5 \$38.00**

**SA-2-C LaSalle Ballroom B**  
**Introduction to Fundus Autofluorescence Imaging**

*Dennis Orlock, FOPS; Irene A. Barbazetto, MD*

Fundus Autofluorescent (FAF) imaging has been a tool in ophthalmic imaging for decades which only occasionally provided useful information. With the advent of scanning

laser ophthalmoscopes (SLOs) and high-resolution digital fundus cameras sensitive in the FAF wavelength, this technique has evolved from a novelty application to a broad based application and has been helpful in studying retinal disease progression, especially macular degeneration. This course will review the basics of FAF and also demonstrate the technique needed to take diagnostic FAF images on the SLO and FAF modified fundus camera. Clinical cases will be presented to help better understand FAF interpretation and imaging. At the end of this course, the student will be able to distinguish the four known classes of ophthalmic "fluorescence", explain what information is gained by auto-fluorescent imaging, and describe basic imaging principles and interpretations.

**CEC OPS 1.5; JCAHPO-A 1.5 \$38.00**

**SA-2-E-WS Cabildo**  
**Wide Angle Imaging Workshop**

*Cynthia VandenHoven, BAA, CRA - Coordinator*

**Prerequisites: A basic understanding of fundus photography is required.** This workshop is designed as an introduction to the use of Wide Angle Fundus Imaging. It is intended for students with little-to-no experience with wide angle imaging. The Heidelberg Spectralis utilizing a handheld Staurengi lens, the Optos Ultrawide Imaging System, and the Retcam will be available. Students will rotate to have hands-on experience at each of these instruments. Imaging techniques for wide field imaging will be demonstrated for each device. Upon completion of this course, participants will be able to identify some of the common controls for wide angle imaging and acquire an acceptable wide angle image on each of the different instruments available. **To register for this workshop you MUST also register for the Wide Angle Imaging lecture course, SA-1-A.**

**CEC OPS 1.5; JCAHPO-A 1.5 \$68.00**

**SA-2-F-WS Vieux Carre B**  
**Introduction to Fundus Photography Workshop**

*Brice Critser, CRA - Coordinator*

This workshop is designed for the beginner with little or no experience in fundus photography. Various fundus cameras will be available for hands-on practice supervised by experienced ophthalmic photographers. Instructors will teach basic camera techniques and problem solving. Registrants in this workshop should be prepared to have one of their eyes dilated and must sign a consent form. At the end of this course, the student will be able to manipulate the basic controls of the fundus camera and list the techniques for basic capture of images. **To register for this workshop, you MUST also register for lecture course SA-1-C.**

**CEC OPS 1.5; JCAHPO-A 1.5 \$68.00**

11:15 am – 12:15 pm  
**Get to Know YOUR Society**  
**Roundtable Discussions**  
**LaSalle Ballroom B**

**SA-3-A Pelican I**  
**Ophthalmology and Communication in the Digital Age:**  
**Tips to Improve the Patient-Caregiver Relationship**

*Andrew P. Doan, MD, PhD*

To a greater extent than ever before, communicating electronically on the go and with the internet is how people are communicating. This course will review the technological changes in communication modalities of the digital age. Topics of discussion will be: why we use the Internet for healthcare information, why patients are using the Internet more, and how the Internet and technology is shaping the patient-caregiver relationship. Also, tips to improve online reputation and to increase patient's satisfaction with healthcare providers will be explained. At the end of this course, the attendees will be able to identify several new technologies and better understand what part ophthalmic photographers may play in the future of ophthalmic communication.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**SA-3-B WSL LaSalle Ballroom C**  
**Master OCT**

*James Soque, COA, CRA; Pamela Weber, MD*

This course will cover **advanced** imaging techniques with Spectral Domain OCT. Achieving the optimal scan for various pathology of both central and peripheral retina will be the focus of the course. Techniques such as enhanced depth imaging OCT (EDI OCT), en face OCT, and anterior segment OCT will be reviewed. Anatomy of the retina and challenging OCT imaging will be discussed. Descriptive interpretation will be utilized and class participation is encouraged. Clinical cases will be presented and their relevance when scanning pathology related to planned surgical intervention. At the conclusion of this course, the participants will be able to better understand how to achieve the best possible OCT images for various pathology of both the central and peripheral retina. **This lecture is required if you wish to take the corresponding workshop, SA-4-E-WS.**

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**SA-3-C WSL LaSalle Ballroom B**  
**Introduction to Fluorescein Angiography**

*Tamera L. Schoenholz, CRA, OCT-C*

This lecture will provide the basic information needed to participate in the fluorescein angiography workshop. Filters, imaging techniques, and fluorescein angiography sequencing will be discussed. Upon completion of this course, students will be able to outline the sequence of a fluorescein angiogram and proper camera management. **This lecture is required if you wish to take the corresponding workshop, SA-4-F-WS.**

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**SA-4-A Pelican I**  
**Setting Standards in the Field of Ophthalmic**  
**Photography**

*Beth Ann Benetz, CRA, FOPS*

This course will discuss the difficulties of arriving at standards for study imaging so results are directly comparable from any combination of operator/photographer, equipment and computer program within an imaging modality. A brief history of fundus photography and angiography in clinical studies and the OPS Board of Certification will set the framework for how standards have been set prior to the digital age in ophthalmic photography. The class will address factors that have influenced this process, such as the influence of ophthalmic clinical trial imaging and the OPS educational and certification programs on standard of care, continuity and transferability of care, and what the difficulties in setting standards are today in this age of digital imaging. At the conclusion of this lecture the participant will be able to elaborate on the 'evolution' of setting standards for ophthalmic imaging. Students will also be able to discuss various considerations that were taken into account for defining the parameters for specific standards.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**SA-4-B LaSalle Ballroom C**  
**OCT for Glaucoma**

*Sanjay Asrani, MD*

Imaging a patient for the diagnosis of glaucoma with Spectral Domain OCT can be difficult due to a large overlap in axonal counts among "normals" versus early stage glaucoma. This course will discuss how the measurement of the ganglion cells in the macula has emerged as a valuable tool in the diagnosis of glaucoma. Anterior segment OCT and its utility in glaucoma management will also be addressed. Images of narrow angles, intermittent angle closure, chronic angle closure, phacomorphic glaucoma, iris cysts, plateau iris, and filtering blebs will be demonstrated. At the end of this course, the student will be able to describe the use of Spectral Domain OCT in glaucoma diagnosis and follow up, as well as list several applications of anterior segment imaging in various glaucoma related clinical situations.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**SA-4-C LaSalle Ballroom B**  
**Update in the Management of Age-Related Macular**  
**Degeneration**

*William F. Mieler, MD*

This course will provide the attendee with an overview of the evaluation, diagnosis, and treatment of patients with age-related macular degeneration (AMD). The role and use of optical coherence tomography (OCT), fluorescein angiography (FA), indocyanine green (ICG) angiography, and autofluorescence will be discussed with regard to assessment of the patient at baseline, as well as the role in monitoring the response to therapy. Treatment options for both dry and exudative AMD will be reviewed,

including proven treatments as well as experimental options. At the end of this course, students will be able to describe the role of ancillary testing (angiography, OCT) in the assessment of patients with AMD, and review the current proven treatment options for exudative AMD.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

1:30 pm – 3:30 pm

**SA-4-E-WS Cabildo  
Master SD OCT Workshop**

*Leah Gibbins-Myers, CRA, COT - Coordinator*

**Prerequisite: This workshop is NOT for beginners. Students must have a minimum of two (2) years' experience imaging with an SD OCT system.** This workshop is designed as an expansion on the use of Spectral Domain OCT (SD-OCT). All current SD-OCT manufacturers have been asked to participate in this hands-on workshop. Scan modes, their applications and some of the advanced techniques needed to capture images with these instruments will be demonstrated. Upon completion of this course, participants will be able to perform advanced SD-OCT procedures, and identify some of the less commonly-used controls for SD-OCT operation. **To register for this workshop, you MUST also register for the corresponding lecture, SA-3-B.**

**CEC OPS 2; JCAHPO-A 2 \$90.00**

**SA-4-F-WS Vieux Carre B  
Introduction to Fluorescein Angiography Workshop**

*Paul Paquette, CRA, COMT, FOPS - Coordinator*

This workshop is designed for the photographer who wants to learn the techniques of fluorescein angiography. Equipment, materials and instructors will be available to help the students perform a "mock" angiogram. A step-by-step sequence of events will be stressed. Registrants in this workshop should be prepared to have one eye dilated and must sign a consent form. At the end of this course, the student will be able to identify the equipment and materials needed for fluorescein angiography and describe the protocol and sequencing. **To register for this workshop you MUST also register for lecture course SA-3-C.**

**CEC OPS 2; JCAHPO-A 2 \$90.00**

2:45 pm – 3:45 pm

**SA-5-A Pelican I  
Diabetic Retinopathy: New Treatment Paradigms and Advances in Imaging**

*Jennifer Sun, MD*

Clinical trial based evidence for recent treatment algorithms of diabetic retinopathy and diabetic macular edema will be reviewed. Advances in ocular imaging for anatomic and functional outcomes in diabetic eye disease will also be discussed, including parameters on adaptive optics scanning laser ophthalmoscopy and spectral domain optical coherence tomography. At the conclusion

of this course the student will be able to review evidence based recommendations for treatment of diabetic retinopathy and diabetic macular edema, discuss parameters on ultra high resolution adaptive optics scanning laser ophthalmoscopy relevant to diabetic eye disease, and highlight spectral domain optical coherence tomography findings that may be associated with visual outcomes in diabetic retinopathy.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**SA-5-B LaSalle Ballroom C  
Current and Future of Ophthalmic Drug Delivery/  
Treatments**

*Carl Glittenberg, MD*

This course will briefly describe treatment from thermal laser, to Photodynamic Therapy (PDT), to current anti-vascular endothelial growth factor (anti-VEGF) injections for many types of retinal disease, such as Age-Related Macular Degeneration, Diabetic Retinopathy, and Retinal Vein Occlusions. An overview of the different therapies that are currently available such as, Avastin, Lucentis, and Eylea will be discussed. The effectiveness of these drug therapies will also be explained. At the end of this course attendees will be able to describe current types of treatments for retinal diseases and elaborate on possible new treatments in the future.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**SA-5-C LaSalle Ballroom B  
Eponyms in Ophthalmology: What's in a Name?**

*Timothy J. Bennett, CRA, OCT-C, FOPS – Moderator*

Many eye diseases are named for the first person to identify or describe a condition. After a brief overview of diagnostic naming conventions in ophthalmology, a series of interesting cases named for the individual who first described each entity will follow. Many of these diseases have striking clinical findings that can be documented with a variety of imaging techniques. Each case will include the history of discovery, classic clinical findings, and the best modern imaging techniques to document and support diagnosis. Audience participation will be encouraged. At the end of this course, the participant will be able to list several named diagnoses, identify clinical features of these entities, and describe photographic techniques for documentation.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

4:00 pm – 5:00 pm

**The Ninth Annual  
J. Donald M. Gass Memorial Lecture  
SA-6-B LaSalle Ballroom A  
Retina — Images of the World Within**

*Suber S. Huang, MD, MBA*

Vision drives creativity, innovation, and the imagination to pursue the fundamental nature of sight. It encompasses the appreciation of the subject, the technical skill, and the existential eye for composition that transforms imagery into something timeless, dynamic, and a joy to behold. It is what has propelled the extraordinary success of our colleagues Donald Gass, Howard Schatz, Johnny Justice,

and for so many others. Our own desire to see better has created miraculous imaging systems that will help us appreciate visual function at the molecular level and provide the opportunity for millions to savor sight's sweetness.

This presentation will review how advances in imaging have lead directly to an improved understanding of disease and to improved lives for our patients. Using acclaimed images from the ASRS Retina Image Bank, we will explore the qualities that allow images to transcend documentation and become - art. Lastly, we shall explore the future of imaging in ophthalmology and how technology, demographics, and the healthcare landscape will drive innovation. At the conclusion of this presentation, the attendees will be able to appreciate the historical role of imaging in the management of complex retinal disease, recognize the potential and limitations of the ASRS Retina Image Bank, and understand how advances in the understanding of clinical disease will drive innovation in imaging.

**CEC OPS 1; JCAHPO-A 1**

\*This event is included in the general registration fee.

## **SUNDAY, NOVEMBER 17th**

*8:30 am - 9:30 am*

**SU-1-A** **Pelican I**  
**Patient Documentation for Neuro-Ophthalmology**

*Kathleen B. Digre, MD.*

The neuro-ophthalmic exam is a dynamic process that may reveal optic disc and retinal findings, visual field anomalies, pupil defects, and motion disorders. This course will show the ophthalmic photographer the range of clinical symptoms that need to be documented, often with a combination of photography, visual fields, ultrasound, CT/MRI scans, and videography. An overview of common, serious, and unusual conditions will be given with examples of the appropriate photographic and clinical documentation. At the end of this course the student will be able to identify the steps required to properly photograph the neuro-patient.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**SU-1-B** **LaSalle Ballroom C**  
**Digital Artifacts in Ophthalmic Imaging**

*Robert Curtin, CRA, FOPS; Sarah Moyer, CRA, OCT-C*

Imaging and diagnostic testing are crucial to accurate diagnosis and treatment of patients. Identifying and understanding how to prevent artifacts that occur in these tests is critical to acquiring and interpreting results accurately. This course will identify common artifact problems with various imaging and diagnostic testing modalities such as time domain and spectral domain OCT, fundus photography, fluorescein angiography, ICG angiography, autofluorescence, and slit lamp photography. Instrument maintenance and technique,

patient management, and other issues that can affect image quality will be addressed. At the completion of this course, the student will be able to identify common testing artifacts and have knowledge of how to correct them.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**SU-1-C** **LaSalle Ballroom B**  
**Clinical Features of Retinal Disease**

*David A. Quillen, MD; Timothy Bennett, CRA, FOPS, OCT-C*

Fundus photography is commonly used to document clinical features of retinal disease. This course will provide an overview of common and distinctive retinal features that photographers should recognize in order to document diseases effectively. At the conclusion of this course, the student will be able to identify clinical features of retinal disease and develop photographic plans to capture specific retinal pathology.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

*9:45 am - 10:45 am*

**SU-2-A** **WSL** **Pelican I**  
**Clinical Applications of Anterior Segment OCT**

*Kenneth L. Cohen, MD; Sarah Moyer, CRA, OCT-C*

Anterior Segment OCT's longer wave length of light allows deeper penetration of tissues, resulting in higher resolution of images in the anterior segment. This course will highlight current manufacturers of anterior segment OCT's while focusing on the Visante. It will address hardware, imaging technique and data interpretation. Clinical applications will be discussed for the following topics: contact lens fitting, DSEK, DALK, cataract surgery, corneal thickness, and more. At the conclusion of this course, students will be able to list several anterior segment imaging modalities and have a greater understanding of how they can be clinically helpful. **This lecture is required if you wish to take the corresponding workshop, SU-3-E-WS.**

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**SU-2-B** **LaSalle Ballroom C**  
**Retinal Anatomy - Up Close and Personal**

*Ron Gallemore, MD, PhD; Esmeralda Gallemore, COA*

This course is a detailed examination of the retinal anatomy and physiology as well as a brief overview of the visual pathway. Various cell types within the retina will be identified and their function explained. Electron Microscope and OCT images will be used to illustrate the retinal anatomy in healthy and diseased cases. A segment of the course will address the practical aspects of retinal anatomy and how this knowledge can be used to enhance the quality and utility of the fundus photos, fluorescein angiograms, ICG angiograms, auto-fluorescence images and OCT images we obtain. At the end of this lecture, the student will be able to name the retinal cell layers and outline in general terms the physiology of vision. He/She will also be able to discuss



the characteristics of a normal retina as represented on various imaging modalities.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**SU-2-C WSL LaSalle Ballroom B  
Slit Lamp Photography**

*James Gilman, CRA, FOPS*

The slit lamp is the basic tool used in ophthalmology for the examination of the anterior segment. As ophthalmic imagers, we are called upon to use the slit lamp in conjunction with various photographic recording devices to document anterior segment pathology. This course will cover the basics of imaging using the slit lamp, with an emphasis on learning basic illumination techniques and how they can reveal specific structures of the anterior segment. How to use these illumination techniques to best illustrate the clinically significant aspects of various anterior segment pathology will be emphasized. Upon completion of the course, the student will be able to describe the techniques used in slit lamp photography and identify the illumination techniques used for the examination and documentation of the anterior segment.

**This lecture is required if you wish to take the corresponding workshop, SU-3-F-WS.**

**CEC OPS 1; JCAHPO-A 1 \$25.00**

11:00 am - 12:30 pm

**SU-3-A Pelican I**

**Certification: Method or Madness**

*Laura Savage, CRA, COMT*

This course will review the various certifications available in ophthalmology and discuss the purpose and benefits of professional certification. The requirements and steps of applying for certification will be presented. How to obtain and organize the various resources needed for examination preparation will be covered. Time management and how to design and implement a study plan will be discussed. The course will include practical tips on preparing for and taking written and practical certification exams. Requirements for recertification will be reviewed. After taking this course, a student will be able to describe the purpose and benefits of certification, list various requirements of certifications, locate and utilize various resources for exam preparation, and design a study plan to organize and prepare for certification exams. NOTE: It is recommended that persons who are planning on taking the CRA and OCT-C exams also attend the OPS Board of Certification's "Why Certify" meeting directly following this course so specific questions about the tests can be answered.

**CEC OPS 1.5; JCAHPO 0 \$38.00**

**SU-3-B LaSalle Ballroom C  
Pearls, Tips, and Tactics**

*Timothy J. Bennett, CRA, OCT-C, FOPS - Moderator*

This course will present a series of short tips and strategies for maximizing diagnostic information in a variety of imaging modalities including fluorescein

angiography, fundus photography and OCT. Troubleshooting techniques will be covered. Case-based examples will be given. Audience participation is encouraged and attendees may bring images or short topics for presentation and discussion by the entire group. Upon completion of this course the attendee will be able to: list tips for improving the quality of color fundus images; describe a technique for combining OCT images to extend the scanning range; identify common artifacts in OCT and fundus images; recognize clinical findings and apply imaging strategies to maximize diagnostic information from commonly performed imaging tests.

**CEC OPS 1.5; JCAHPO-A 1.5 \$38.00**

**SU-3-C LaSalle Ballroom A  
Time Domain OCT Imaging Lecture & Workshop**

*Cornelia Gottlieb, CRA, OCT-C*

This combined basic Time Domain OCT lecture and basic-to-intermediate level workshop will discuss photographic techniques for optical coherence tomography. Fundamentals in the operation of the instrument and clinical examples will be presented. Tips, techniques in obtaining diagnostic images and comparative OCT and photographic images will be shown. Common scan modes and their clinical applications will be demonstrated in the lecture as well as the workshop. Beginning level participants will have the opportunity to familiarize themselves with various scan modes, their applications and some of the techniques needed to capture images with this instrument. Advanced level attendees will have the opportunity to study the OCT software in greater depth.

Upon completion of this course, beginning level participants will be able to perform basic techniques for the OCT procedure and identify some of the common controls and basic techniques. Intermediate level participants will be able to list five scan modes, cite examples of their application, and list and demonstrate to customize scans.

**CEC OPS 1.5; JCAHPO-A 1.5 \$68.00**

**SU-3-E-WS Cabildo  
Anterior Segment OCT Workshop**

*Rona Esquejo-Leon, CRA - Coordinator*

This workshop is designed as an introduction to the use of Anterior Segment OCT. All current TD and SD-OCT manufacturers have been asked to participate in this hands-on workshop. **Students will rotate through all of the different OCT instruments.** The participants will have the opportunity to familiarize themselves with the various hardware and software of these new imaging systems. Scan modes, their applications and some of the techniques needed to capture images with these instruments will be demonstrated. THIS WORKSHOP IS INTENDED FOR STUDENTS WITH LITTLE-TO-NO- EXPERIENCE WITH ANTERIOR SEGMENT OCT. Upon completion of this course, participants will be able to perform basic techniques for Anterior Segment OCT, procedures, and identify some of the common controls from Anterior Segment OCT operation. **To register for this workshop, you MUST also register for lecture course SU-2-A.**

**CEC OPS 1.5; JCAHPO-A 1.5 \$68.00**

**SU-3-F-WS****Poydras****Slit Lamp Photography Workshop***Dennis Thayer - Coordinator*

This workshop is designed to help students develop the techniques and lighting skills needed for photographing the anterior segment with the photo slit lamp, primarily using model eyes. Students will practice with a variety of slit lamp instruments. Instructors will provide practical instruction concentrating on troubleshooting and choosing the best tools and techniques for lighting and documenting pathology of the anterior segment. At the end of this course, the student will be able to manipulate the basic controls of the slit lamp camera, and list the techniques for basic capture of images using a gonio lens. **To register for this workshop, you MUST also register for lecture course SU-2-C.**

**CEC OPS 1.5; JCAHPO-A 1.5 \$68.00***12:30 pm – 1:30 pm***“Why Certify?”****Pelican I**

You may know why, but do you know how? Members of the Board of Certification will be present to answer your questions about the CRA™ and OCT-C programs. You will have the opportunity to learn what makes a portfolio submission acceptable, hear about the examination experience and learn the advantages of becoming certified. This is a come and go as you wish session, so stop by, meet your Board of Certification, and get the right answers to your certification questions. Earn your imaging credentials from the *Eye Imaging Experts!* Please join us and learn more!

*1:30 pm – 2:30 pm***SU-4-A****WSL****Pelican I****Goniography - Standard Techniques***Beth Ann Benetz, CRA, FOPS*

Documenting the iridocorneal angle can be one of the most challenging yet rewarding tasks for the ophthalmic photographer. Success requires skill, effort and patient compliance to view the structures normally hidden from direct view. The pairing of the slit lamp and a mirrored gonio lens has been the mainstay of indirect angle imaging. This course will give an overview of the techniques of photographing the angle using the standard mirrored gonio lens. Lighting techniques, lens/camera positioning and patient management will be discussed using example images. At the completion of this course, the student will be able to define the concept of total internal reflection, identify the six key landmarks of the angle, and describe the correct positioning of the gonio lens on the eye to reveal the angle structures. **This lecture is required if you wish to take the corresponding workshop, SU-5-F-WS.**

**CEC OPS 1; JCAHPO-A 1 \$25.00****SU-4-B****LaSalle Ballroom C****Is “Lazy Eye or Lazy Brain” Syndrome?***Andrew P. Doan, MD, PhD*

Amblyopia, also known as lazy eye, is an eye disorder characterized by an impaired vision in an eye that otherwise appears normal, or out of proportion to associated structural abnormalities of the eye. In amblyopia, visual stimulation either fails to transmit or is poorly transmitted through the optic nerve to the brain for a continuous period of time. It can also occur when the brain “turns off” the visual processing of one eye to prevent double-vision, for example in strabismus (crossed-eyes). Detecting the condition in early childhood increases the chance of successful treatment, especially if detected before the age of five. Amblyopia is a developmental problem in the brain, not an intrinsic, organic neurological problem in the eyeball (although organic problems can lead to amblyopia which can continue to exist after the organic problem has resolved by medical intervention). The part of the brain receiving images from the affected eye is not stimulated properly and does not develop to its full visual potential. At the conclusion of the course, the attendee will understand how the brain affects the eyes and visual path. Participants will also be able to list the types of amblyopia and its treatments.

**CEC OPS 1; JCAHPO-A 1 \$25.00****SU-4-C****WSL****LaSalle Ballroom B****Introduction to Spectral Domain OCT***Melanie Zuckero, CRA - Coordinator*

Spectral domain (SD-OCT), also known as Fourier or Frequency Domain Optical Coherence Tomography (FD-OCT), quickly surpassed Time Domain OCT (TD-OCT) to become the current standard in ophthalmic imaging. This introductory course will briefly discuss the differences between these two systems and elaborate on fundamentals in the operation of SD-OCT's. Examples of common scan patterns and analysis will be shown. Retinal anatomy as seen with OCT will be reviewed and examples of common abnormalities will be shown. Challenges in obtaining certain scans as well as how to overcome them will also be discussed. Upon completion of this course, participants will be able to describe the basic capabilities and limitations of both TD and SD-OCT. In addition, students will be able to discuss various aspects of retinal and optic nerve scan analysis as well as factors such as reliability and resolution. **This lecture is required if you wish to take the corresponding Introduction to SD-OCT workshop, SU-5-E-WS.**

**CEC OPS 1; JCAHPO-A 1 \$25.00**

2:45 pm - 4:15 pm

**SU-5-A LaSalle Ballroom C  
Disease Guided OCT; A Panel of Experts**

*Kirsten Locke, RN, CRA, FOPS - Moderator; Gary E. Fish, MD; Pamela A. Weber, MD; Michael Kelly, FOPS; Jim Soque, CRA, COA*

Scanning a patient on an OCT unit is not difficult. What is sometimes forgotten is that not all diseases should be scanned alike. To get the most information out of each OCT study, we need to consider disease-specific requirements for the type and placement of scan. In this session, each panel member will discuss the special considerations that we as photographers/imaging experts may need, and what pathology should be captured with a particular diagnosis. The panel will focus on ocular tumors, age-related macular degeneration, retinitis pigmentosa, epiretinal membranes, vitreomacular traction syndrome, and diabetic retinopathy. At the end of this course, each participant will be able to describe what is required to deliver a diagnostically useful OCT scan for the above listed conditions.

**CEC OPS 1.5; JCAHPO-A 1.5 \$38.00**

**SU-5-B LaSalle Ballroom A  
Multi-spectral Fundus Imaging; The Technology and its Clinical Potential - Lecture and Demo**

*Brian Leonard, MD*

Multi-spectral fundus imaging allows for improved visualization of retinal and sub-retinal structures by capturing images at different wavelengths through spectral and depth enhanced differential visibility. The technology makes it possible to obtain quantitative information about blood oxygenation, macula pigment density, melanin, and choroidal vasculature. Much of the information gained by this imaging technique will not always be evident in the clinical examination, SD-OCT, or FA. The science behind this imaging modality as well as clinical applications will be covered and followed by a short demonstration with a multi-spectral instrument. At the end of this lecture, participants will be able to describe multi-spectral imaging technology in general terms, identify variations in pathology as imaged with different wavelengths, and have an insight into its clinical relevance.

**CEC OPS 1.5; JCAHPO-A 1.5 \$38.00**

**SU-5-C LaSalle Ballroom B  
EMR's and Image Management Solutions - A Panel Overview**

*Jim Gilman, CRA, FOPS, Joseph Warnicki, FOPS - Moderators*

An overview of many of the commercially available image integration systems will be discussed by users. Included in the presentations will be day-to-day operations, system installation, and ability to interface with various ophthalmic equipment. Current imaging and EMR standards will also be presented including DICOM, HL-7, and CCOW. Upon

completion of this course, students will be able to discuss how image integration systems work and have a fundamental understanding of current imaging and EMR standards.

**CEC OPS 1.5; JCAHPO-A 1.5 \$38.00**

**SU-5-E-WS Cabildo  
Spectral Domain OCT Workshop**

*Lydia Dimmer CRA, OCT-C - Coordinator*

This workshop is designed as an introduction to the use of Spectral Domain OCT (SD-OCT). All current SD-OCT manufacturers have been asked to participate in this hands-on workshop. **Students will be able to select the instrument they wish to gain experience on when they register for this course.** The participants will have the opportunity to familiarize themselves with the various hardware and software of these imaging systems. Scan modes, their applications and some of the techniques needed to capture images with these instruments will be demonstrated. **THIS WORKSHOP IS INTENDED FOR STUDENTS WITH LITTLE-TO-NO EXPERIENCE WITH THE SD-OCT.** Upon completion of this course, participants will be able to perform basic techniques for SD-OCT procedures, and identify some of the common controls for SD-OCT operation. **To register for this workshop, you MUST also register for the Introduction to Spectral Domain (SD-OCT) lecture, SU -4-C.**

**CEC OPS 1.5; JCAHPO-A 1.5 \$68.00**

**SU-5-F-WS Poydras  
Goniographic Workshop**

*Jay Rostvold, FOPS - Coordinator*

This workshop is designed to help students refine the techniques and lighting skills needed for photographing the anterior segment with the photo slit lamp. Model eyes will be used. Students will practice with a variety of slit lamp instruments, and gonio lenses. Instructors will provide practical instruction concentrating on troubleshooting and choosing the best tools and techniques for lighting and documenting pathology of the anterior segment and angle. At the end of this course, the student will be able to manipulate the basic controls of the slit lamp camera, and list the techniques for basic capture of slit lamp and gonio images. **To register for this workshop, you MUST also register for lecture course SU-4-A.**

**CEC OPS 1.5; JCAHPO-A 1.5 \$68.00**

4:30 pm – 6:00 pm  
**OPS Membership Business Meeting**  
*Open to All OPS Members*  
**Pelican I**

*Throughout the Day*  
**CRA Performance Examination**  
**Vieux Carre**

# MONDAY, NOVEMBER 18th

8:30 am – 10:00 am

**MO-1-A Pelican I**

## **Adaptive Optics in Ophthalmic Imaging**

*Jason Porter, PhD*

Even when wearing conventional glasses or contact lenses, the human eye still suffers from subtle optical imperfections (or aberrations) that not only degrade visual performance, but also limit the ability to image normal and diseased eyes on a cellular level. Adaptive optics is a technology that can correct the eye's optical aberrations and enable non-invasive, microscopic views of the living retina. This course will discuss the operating principles of adaptive optics imaging and review applications of this technology to better understand retinal structure and function in normal and diseased eyes. We will also discuss the potential role that adaptive optics imaging could play in earlier detecting retinal diseases and assessing the efficacy of future therapeutic treatments. Upon completion of this course, participants will understand how to interpret adaptive optics images and how these high-resolution images complement traditional clinical imaging.

**CEC OPS 1.5; JCAHPO-A 1.5 \$38.00**

**MO-1-B WSL LaSalle Ballroom C**  
**Diagnostic B-Scan: Standardized Exam Techniques for Ophthalmic Imagers**

*Elizabeth L. Affel, MS, OCT-C*

This course will demonstrate standardized probe positions and the associated nomenclature. Emphasis will be placed on establishing a systematic approach to examining the ocular structures in order to cover all essential views. Identification of ocular structures with respect to probe position and as they relate to photographic positions will be demonstrated. The effect of movement will be discussed. At the end of this course, the student will be able to describe the techniques necessary to perform a B-scan, list probe positions, and identify ocular structures relevant to B-scans. **This lecture is MANDATORY if you wish to take one of the corresponding workshops, MO-2-F-WS or MO-4-F-WS.**

**CEC OPS 1.5; JCAHPO-A 1.5 \$38.00**

**MO-1-C LaSalle Ballroom B**  
**The Jamie Nicholl Symposium: Controversies in Ophthalmic Photography**

*Robert Curtin, CRA, FOPS; Paula Morris, CRA, FOPS - Moderators*

A panel of experienced ophthalmic photographers and managers will lead discussion through a range of topics currently debated by ophthalmic photographers. Topics such as photographers performing venipuncture, the merits of new technologies, and the changing field of ophthalmic photography are but starting points for a lively discussion. Bring your concerns and be prepared to participate in the debate! This course is named in honor of the late Jamie Nicholl, CRA, FOPS, who taught it for

many years. Upon completion of the course, the student will be able to discuss how the field of ophthalmic photography is changing and compare points of view concerning issues that are currently being debated among the ophthalmic community.

**CEC OPS 1.5; JCAHPO-A 1.5 \$38.00**

10:15 am - 11:15 am

**MO-2-A Pelican I**

## **Ophthalmic Pharmacology**

*Richard Lewis, MD, FOPS*

This course will provide a synopsis of the common drugs used in ophthalmic imaging and angiography and will outline the pharmacologic effects and clinical applications of several commonly used ophthalmic medications. Intra-ocular injection drugs currently used in treatments for AMD and other "off-label" use of pharmacological agents will be discussed. At the end of this course the student will be able to list the most commonly used drugs in the ophthalmic setting and describe their applications and risks.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**MO-2-B LaSalle Ballroom C**  
**Anterior Segment OCT Scans, Fluorescein and ICG Angiography: Technique, Application and Beauty**

*Ethan Priel, FOPS*

This course will present an overview of the angiographic and OCT imaging techniques used in order to gain a broader understanding of the human iris and cornea in health and disease. These imaging modalities are used to document and quantify changes in the anterior segment, highlighting neovascularization, changes in iris perfusion, changes following trauma, surgery, and additional entities involving the anterior segment. Emphasis will be placed on understanding the differences between fundus and iris angiographies - both technically and medically, as well as the pros and cons of the imaging devices available for such procedures. Upon completion of this course, the attendee will be able to describe the principles of acquiring anterior segment angiographies, compare and evaluate information obtained from the different imaging modalities, list common ocular anterior segment structures and pathologic findings demonstrated during the course, and describe the use of the instrumentation to obtain the images discussed in the course.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**MO-2-C WSL LaSalle Ballroom B**  
**Introduction to Scanning Laser Ophthalmoscopy Imaging**

*Dirk-Uwe G. Bartsch, PhD*

This lecture will describe the fundamentals of scanning laser ophthalmoscopy, including how images are made, system design, and image retrieval and storage. Various clinical and research applications of the technology will

also be discussed. At the end of this course, the student will be able to describe the components of the SLO instruments and describe the application of this instrument. **This lecture is required if you wish to take the corresponding workshop, MO-3-E-WS.**  
OPS CEC 1; JCAHPO-A 1 \$25.00

10:15 am - 12:15 pm

**MO-2-F-WS Poydras**  
**Diagnostic B-Scan: Standardized Exam Techniques**  
**Hands-On Workshop 1**

*Elizabeth L. Affel, MS, OCT-C - Coordinatoar*

Participants in this workshop will practice the standardized B-scan screening exam techniques and probe positions that were discussed and demonstrated in the pre-requisite lecture. Upon completion of this workshop, participants will be able to demonstrate the use of the standardized probe position and screening protocol. Registrants in this workshop should be prepared to have other students practice the standardized B-scan screening techniques on their eyes. **To register for this workshop you MUST also register for lecture course MO-1-B.**

CEC OPS 2; JCAHPO-A 2 \$90.00

11:30 am – 12:30 pm

**MO-3-A Pelican I**  
**Handling Difficult Patients**

*Ethan Priel, FOPS*

In our daily routine as ophthalmic photographers we are often called upon to go to great lengths in dealing with patients with special needs, demands and problems. This course will outline various ways of dealing with those whom we would loosely term "difficult". Utilizing props, approaches to problem solving will be described and demonstrated. Students will be encouraged to participate by sharing solutions stemming from their individual experiences. At the end of this course the student will be able to list the most common characteristics of the challenging patient, and identify how to overcome problems associated with challenging patients.

CEC OPS 1; JCAHPO-A 1 \$25.00

**MO-3-B LaSalle Ballroom C**  
**The Role of the Ophthalmic Photographer and New Technologies ... Today and Tomorrow**

*Dennis Orlock, FOPS; Richard Rosen, MD*

This course will review the evolution of the ophthalmic photographer: how they have adapted to new technologies in the past, and what awaits them in the future. The panel will present some of the latest hardware and software on the horizon, and discuss how these new technologies could change the role of the ophthalmic photographer and patient care. At the end of this course, students will be

able to identify several new ophthalmic imaging technologies and better understand what part ophthalmic photographers may play in the future of ophthalmic imaging.

CEC OPS 1; JCAHPO-A 1 \$25.00

**MO-3-C WSL LaSalle Ballroom B**  
**Advanced Stereo Fundus Photography**

*Pamela J. Vargo, CRA; Dennis Thayer*

This **advanced** course is a detailed overview of the process of photographing the seven stereo diabetic fields and seven stereo modified diabetic fields. Necessary equipment, materials, field definition, and photographic techniques will be reviewed. Emphasis will be given to fine tuning techniques such as field definition, stereo effect, and focus/clarity. Many insightful and helpful tips will also be revealed. At the end of this course, the student will be able to identify the seven standard field numbers and identify their orientation to the optic nerve. This course is NOT for beginners but only intended for photographers with a minimum of one (1) year of experience shooting the EDTRS seven stereo fields. **This lecture is MANDATORY if you wish to take the corresponding workshop, MO-4-G-WS.**

CEC OPS 1; JCAHPO-A 1 \$25.00

11:30 am – 1:00 pm

**MO-3-E-WS Cabildo**  
**Introduction to Scanning Laser Ophthalmoscopy**  
**Imaging Workshop**

*Dirk-Uwe G. Bartsch, PhD - Coordinator*

This workshop will allow students to learn the operating principles and techniques of the SLO. Optos Optomap, Nidek F10, and Heidelberg Spectralis will be available during this workshop. The application of the Scanning Laser Ophthalmoscope to fluorescein angiography and ICG chorioangiography will be discussed. Students will perform optic nerve head analysis on each other. Dilation is not required. At the end of this course, the student will be able to identify the controls of the SLO instrument and list the wavelengths used in the procedures. **To register for this workshop, you MUST also register for the corresponding lecture, MO-2-C.**

CEC OPS 1.5; JCAHPO-A 1.5 \$68.00

1:30 pm - 2:30 pm

**MO-4-A Pelican I**  
**Great Cases From My Garage!**

*Rosalind Stevens, MD, MPH*

This lecture will present an interesting collection of ophthalmic images documenting a variety of eye diseases not commonly photographed in the United States. The opportunity to practice subspecialty retinal disease diagnosis & management for seven years at King Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia, allowed Dr.

Stevens to collect an interesting spectrum of ophthalmic imagery. This presentation will review a small portion of that collection. Retrospective film scanning and digital photomontage software will be used to reconstruct the patients' fundi. At the end of this lecture, participants will be able to list three rare ophthalmic conditions and discuss their medical implications as well as their special photographic needs.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**MO-4-B LaSalle Ballroom C  
AMD – What's in The Pipeline?**

*Sander Dubovy, MD*

This course will review the pathophysiology of AMD as well as correlate the disease itself with disease management. The relationship between advances in imaging modalities and our understanding of the disease process as well as disease management will be reviewed. Special emphasis will be placed on recent advances in proposed treatment options. At the end of this course the students will be able to define AMD. They will also be able to elaborate on current imaging modalities and correlate these developments in general terms with newly proposed treatment options for AMD.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

1:30 pm – 3:30 pm

**MO-4-F-WS Poydras  
Diagnostic B-Scan: Standardized Exam Techniques  
Hands-On Workshop 2**

*Maru Bretana, – Coordinator*

Participants in this workshop will practice the standardized B-scan screening exam techniques and probe positions that were discussed and demonstrated in the pre-requisite lecture. Upon completion of this workshop, participants will be able to demonstrate the use of the standardized probe position and screening protocol. Registrants in this workshop should be prepared to have other students practice the standardized B-scan screening techniques on their eyes.

**To register for this workshop you MUST also register for lecture course, MO-1-B. (This workshop is a repeat of MO-2-F-WS)**

**CEC OPS 2; JCAHPO-A 2 \$90.00**

**MO-4-G-WS Vieux Carre B  
Advanced Stereo Fundus Photography Workshop**

*Pamela J. Vargo, CRA; Dennis Thayer*

**Prerequisite: This workshop is NOT for beginners. Students must have attended the Advanced Stereo Fundus Photography lecture, and have a minimum of one (1) year experience shooting the seven standard stereo diabetic fields.**

This **advanced** course will provide detailed instruction in the process of photographing the seven diabetic fields in stereo. Anatomy of the fundus camera, trouble-shooting, and field definition will be discussed. Clinical Trial Protocols for fundus photography and the patient encounter will be reviewed. Various fundus cameras will be available for students to have hands-on practice

under the supervision of experienced instructors. Registrants in this workshop should be prepared to have one of their eyes dilated and must sign a consent form. At the end of this course, the student will be able to list the steps required to make an acceptable standard field portfolio. **To register for this workshop, you MUST also register for the corresponding workshop lecture, MO-3-C.**

**CEC OPS 2; JCAHPO-A 2 \$90.00**

2:45 pm – 3:45 pm

**MO-5-A Pelican I  
Diabetic Retinopathy: The Big Picture**

*Rosalind Stevens, MD, MPH*

The spectrum of clinically significant diabetic retinopathy is well known to ophthalmic photographers and comprises a major portion of their professional work. This presentation will review the diagnostic criteria and current management of diabetic retinopathy utilizing montage software to demonstrate the "big picture" of this global threat to vision and quality of life. At the end of this course, the students will be able to list the multiple retinal signs of diabetic retinopathy, describe how it is diagnosed, and discuss the usefulness of image montage in management of diabetic retinopathy.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**MO-5-B LaSalle Ballroom C  
Imaging IntraOcular Tumors**

*Michael P. Kelly, CPT, FOPS*

**Prerequisite:** Working knowledge of fundus photography and fluorescein angiography.

Ophthalmic imagers play a vital role in the documentation of tumors in the eye. At most private practices and some academic institutions, imagers infrequently photograph tumors. When called upon to do so, the protocol can seem new each time. To achieve full photographic documentation, many factors and techniques need to be considered. This course will provide information regarding these factors and techniques, and will provide a standard protocol applicable to most tumor case scenarios. At the conclusion of this course, the students will have gained exposure to the varied appearance of these intraocular lesions of the eye, and they will be able to describe the purpose of photographing intraocular tumors, as well as the standard photographic protocol applicable.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

4:00 pm – 5:00 pm

**MO-6-A Pelican I  
Troubleshooting for Improved Imaging**

*James D. Strong, CRA, OCT-C*

In this course the importance of basic troubleshooting will be discussed and a standard workflow for resolving issues will be presented. During the course, troubleshooting techniques will be applied by the attendees to common

imaging problems that can arise during Fundus photography, Fluorescein Angiography and OCT imaging. By the end of this course, attendees will be able to describe various techniques to solve problems encountered during ophthalmic imaging. Students will also learn ways to track long term and large scale equipment issues for use with vendor communication or budgeting purposes.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**MO-6-B LaSalle Ballroom C  
Keratoprosthesis**

*Natalie Afshari, MD*

Keratoprosthesis is a surgical procedure where a severely damaged or diseased cornea is replaced with an artificial cornea. While conventional cornea transplant uses donor tissue for transplantation, an artificial cornea is used in the Keratoprosthesis procedure. The surgery is performed to restore vision in patients suffering from severely damaged cornea due to congenital birth defects, infections, injuries and burns. Keratoprotheses are made of clear plastic with tissue tolerance and excellent optical properties. Upon completion of this course, the attendee will be able to describe several terms of cornea conditions that need to repair and name several types of Keratoprosthesis.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**TUESDAY, NOVEMBER 19th**

*8:30 am - 9:30 am*

**TU-1-A Pelican I  
Strategies for the Appropriate Introduction of  
Ophthalmic Imaging Technologies in Developing  
Environments**

*Brian Leonard, MD*

The International Agency for the Prevention of Blindness recognizes that expensive ophthalmic imaging technology has been widely introduced in many developing countries. The beneficial effects of this technology have frequently been less than expected. There is a critical requirement for prior assessment of effectiveness, adequate technical support, proper training of staff, evaluation of costs, needs assessment at different levels, and appraisal of alternative options, in order to optimize effectiveness and to minimize the challenges of frequent breakdowns of equipment and diversion of resources from other priorities. At the end of this presentation, attendees will have an understanding of the challenges and solutions of introducing ophthalmic imaging technology dependency in developing environments with emphasis on solutions for training and infrastructure support. Attendees will also understand the opportunities available for them to personally participate in this process in developing environments.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

**TU-1-B LaSalle Ballroom C**

**Descriptive Interpretation of OCT**

*Elizabeth Affel, OCT-C, MS*

This course entails a discussion on OCT analysis and interpretation. OCT anatomical landmarks and description will be featured, and common pathology will be presented. Expect an interesting discussion and be prepared to contribute - it will be a "Grand Rounds" academic style for **intermediate to advanced** level participants. At the end of this lecture, the students will have a better understanding of the anatomical features of an OCT scan and have gained an appropriate descriptive vocabulary.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

*9:45 am – 10:45 am*

**TU-2-A Pelican I**

**Clinical Electroretinography**

*Stuart G Coupland, PhD*

Clinical electroretinography is a powerful technology for measuring electroretinal function in patients with suspected retinopathy. The electroretinogram (ERG) is a complex waveform elicited to flash stimulation and represents the electroretinal response of all the active elements including photoreceptor, bipolar, amacrine and ganglion cells. Through appropriate stimulation and analytic techniques the ERG can functionally dissect the retina to show site of dysfunction in acquired and inherited retinal dystrophies. The multifocal ERG (mfERG) can provide functional mapping of cone system within the macular region. The mfERG complements other diagnostic imaging techniques such as OCT to provide a better understanding of structural and functional correlates of macular disease. At the end of the lecture, students will have an understanding of the components of the flash ERG and their retinal origin. In addition, students will be able to describe indications for ERG and mfERG testing.

**CEC OPS .50; JCAHPO-A 1 \$25.00**

**TU-2-B LaSalle Ballroom C  
I Can't Hear You in the Dark: Caring for Patients with  
Hearing Loss**

*Laura Savage, CRA, COMT*

This course will discuss the challenges of photographing and communicating with people who are hearing impaired or deaf and provide tips on how to improve communication in the ophthalmic setting. The physical and emotional challenges of the patient will be discussed as well as tips for communicating in the dark, during patient care and testing, as well as working with an interpreter. Medical/legal communication issues will also be discussed. At the end of the course, the attendee will be able to identify some of the communication, physical, emotional and medical/legal issues of those with hearing challenges and will be able to describe ways to enhance effective communication.

**CEC OPS 1; JCAHPO-A 1 \$25.00**

11:00 am - 12:00 pm

**TU-3-A**

**Pelican I**

**Anatomy and Physiology of the Anterior Segment**

*W. Craig Fowler, MD*

This fast-paced presentation will highlight the key concepts and structures pertinent for the ophthalmic photographer to understand anterior segment anatomy and physiology as it relates to pathology and photographic documentation. Sir William Osler rightly said, "what the mind does not know, the eye cannot see". As such, many pictures and diagrams and related videos will be utilized to illustrate the essential anatomic features, pathophysiologic principles, and findings. At the end of this course, attendees will have a better understanding of anterior segment structures and the proper views needed for optimal documentation.

**CEC OPS 1; JCAHPO-A 1     \$25.00**

**TU-3-B**

**LaSalle Ballroom C**

**What is the Fun with Fundus Photography?**

*Dennis Orlock, FOPS; Robert Curtin, CRA, FOPS;*

*Hoang Nguyen, CRA, OCT-C; Danielle Schweitzer, CRA*

Getting good photographs of the retina is a challenge to all ophthalmic photographers. The reward, on the other hand, is in knowing how their skills assist the clinician to derive at a diagnosis for the patient. This course is to provide attendees with pearls and pitfalls when performing fundus imaging and the FUN that comes with fundus photography. The course will also review some of the frequent cases when there is NO fun in fundus photography. At the conclusion of the course the attendee will be able to discuss imaging pearls and pitfalls for a variety of common diseases and elaborate on ways to improve imaging skills.

**CEC OPS 1; JCAHPO-A 1     \$25.00**

***Cell phones and pagers must be turned off while attending all lecture and workshop sessions. Audio and/or video recording is strictly prohibited.***

## **FUNDUS PHOTO AD**



# Lecture Faculty

Elizabeth Affel, OCT-C, MS  
Wills Eye Institute  
Philadelphia, PA

Natalie Afshari, MD  
UCSD Shiley Eye Center  
La Jolla, CA

Sanjay Asrani, MD  
Duke University Eye Center  
Durham, NC

Irene A. Barbazetto, MD  
VRM of New York  
New York, NY

Dirk-Uwe Bartsch, PhD  
UCSD Shiley Eye Center  
La Jolla, CA

Beth Ann Benetz, CRA, FOPS  
Case Western Reserve University  
Cleveland, OH

Timothy J. Bennett, CRA, FOPS, OCT-C  
Penn State Hershey Eye Center  
Hershey, PA

Denis Bezaire, BFA  
Associated Retinal Consultants  
Royal Oak, MI

Kenneth L. Cohen, MD  
University of North Carolina  
Chapel Hill, NC

Stuart G. Coupland, PhD  
University of Ottawa  
Ottawa, ON, Canada

Brice Critser, CRA  
University of Iowa Hospitals & Clinics  
Iowa City, IA

Karl Csaky, MD  
Retina Foundation of the Southwest  
Dallas, TX

Denise Cunningham, CRA, RBP, FOPS  
National Eye Institute of NIH  
Bethesda, MD

Robert E. Curtin, II, CRA, FOPS  
Digital Angiography Reading Center  
New York, NY

Michael DellaVecchia, MD, PhD  
Wills Eye Institute  
Philadelphia, PA

Kathleen B. Digre, MD  
University of Utah, Moran Eye Center  
Salt Lake City, UT

Lydia Dimmer, CRA, COT, OCT-C  
Eye Associates Northwest  
Seattle, WA

Andrew P. Doan, MD, PhD  
Loma Linda University  
Loma Linda, CA

Sander Dubovy, MD  
Bascom Palmer Eye Institute  
Miami, FL

Yale F. Fischer, MD  
VRM of New York  
New York, NY

Gary Fish, MD  
Texas Retina Associates  
Dallas, TX

W. Craig Fowler, MD  
University of North Carolina at Chapel Hill  
Chapel Hill, NC

Esmeralda Gallemore, COA  
Retina Macula Institute  
Torrance, CA

Ron Gallemore, MD, PhD  
Retina Macula Institute  
Torrance, CA

James Gilman, CRA, FOPS  
University of Utah, Moran Eye Center  
Salt Lake City, UT

Carl Glittenberg, MD  
Rudolf Foundation Hospital  
Vienna, Austria

Connie Gottlieb, CRA, OCT-C  
USC Doheny Eye Center  
Los Angeles, CA

Ditte J. Hess, CRA, FOPS  
Bascom Palmer Eye Institute  
Miami, FL

Marcela Hickey, CRA, FOPS  
Bascom Palmer Eye Institute  
Naples, FL

Suber S. Huang, MD, MBA  
Case Western Reserve School of  
Medicine  
Cleveland, OH

Eric Kegley, CRA, COA  
Retina Consultants of Houston  
Houston, TX

Michael P. Kelly, CPT, FOPS  
Duke University Eye Center  
Durham, NC

Brian Leonard, MD  
University of Ottawa Eye Institute  
Ottawa, ON, Canada

Richard A. Lewis, MD, FOPS  
Baylor College of Medicine  
Houston, TX

Kirsten Locke, CRA, RN, FOPS  
Retina Foundation of the Southwest  
Dallas, TX

Cherie McNett  
American Academy of Ophthalmology  
San Francisco, CA

Calvin E. Mein, MD  
Retinal Consultants of San Antonio  
San Antonio, TX

William F Mieler, MD  
University of Chicago  
Chicago, IL

Paula F. Morris, CRA, FOPS  
University of Utah, Moran Eye Center  
Salt Lake City, UT

Sarah Moyer, CRA, OCT-C  
University of North Carolina  
Chapel Hill, NC

Michael Neider, FOPS  
University of Wisconsin-Madison  
Fundus Photography Reading Center  
Madison, WI

Hoang Nguyen, CRA, OCT-C  
OCT Reading Center  
Littleton, CO

Dennis Orlock, FOPS  
DARC, Retina Research, MEETH  
New York, NY

Paul Paquette, CRA, COMT, FOPS  
Visual Eyes Ophthalmographics, Inc.  
Long Beach, CA

Jason Porter, MS, PhD  
University of Houston  
Houston, TX

Ethan R. Priel, FOPS  
Mor Medical Center  
Bnei-Brak, Israel

David A. Quillen, MD  
Penn State Hershey Eye Center  
Hershey, PA

Richard Rosen, MD  
New York Eye and Ear  
New York, NY

Laura Savage, CRA, COMT  
Dartmouth-Hitchcock Clinic  
Manchester, NH

Tamera Schoenholz, CRA, OCT-C  
Doheny Eye Institute  
Los Angeles, CA

Danielle Schweitzer, CRA  
VRM of New York  
New York, NY

Rosalind Stevens, MD, MPH  
Dartmouth-Hitchcock Medical Center  
Lebanon, NH

James Soque, CRA, COA  
Island Retina  
Shirley, NY

James Strong, CRA, OCT-C  
Penn State Hershey Eye Center  
Hershey, PA

Jennifer Sun, MD  
Beetham Eye Institute  
Joslin Diabetes Center  
Boston, MA

Michael P. Teske, MD  
Univ of Utah, John Moran Eye Center  
Salt Lake City, UT

Dennis W. Thayer  
University of Wisconsin-Madison  
Fundus Photograph Reading Center  
Madison, WI

Trexler Topping, MD  
Ophthalmic Consultants of Boston  
Boston, MA

Cynthia VandenHoven, CRA  
Hospital for Sick Children  
Toronto, ON, Canada

Pamela J. Vargo, CRA  
University of Wisconsin-Madison  
Fundus Photograph Reading Center  
Madison, WI

Joe Warnicki, FOPS  
DARC Reading Center  
Asheville, NC

Pamela Weber, MD  
Island Retina  
Shirley, NY

Melanie Zuckero, CRA  
Kresge Eye Institute  
Detroit, MI

## *Workshop Faculty*

Elizabeth Affel, OCT-C, MS  
Wills Eye Institute  
Philadelphia, PA

Dirk-Uwe Bartsch, PhD  
UCSD Shiley Eye Center  
La Jolla, CA

Maru Bretana  
Retina Consultants of Houston  
Houston, TX

Brice Critser, CRA  
University of Iowa Hospitals & Clinics  
Iowa City, IA

Lydia Dimmer, COT, CRA, OCT-C  
Eye Associates Northwest  
Seattle, WA

Rona Esquejo-Leon, CRA  
University of North Carolina  
Chapel Hill, NC

Alan Frohlichstein, CRA, FOPS  
Retinal Angiography Services  
Morton Grove, IL

Leah Gibbins-Myers, OCT-C  
Chester County Eye Care Associates  
West Chester, PA

Connie Gottlieb, CRA, OCT-C  
USC Doheny Eye Center  
Los Angeles, CA

Eric Kegley, CRA, COA  
Retina Consultants of Houston  
Houston, TX

Michael P. Kelly, CPT, FOPS  
Duke University Eye Center  
Durham, NC

Sarah Moyer, CRA, OCT-C  
University of North Carolina  
Chapel Hill, NC

Paul Paquette, CRA, COMT, FOPS  
Visual Eyes Ophthalmographics, Inc.  
Long Beach, CA

Jay Rostvold, FOPS  
Wolfe Eye Clinic  
West Des Moines, IA

Tamera Schoenholz, CRA, OCT-C  
Doheny Eye Institute  
Los Angeles, CA

Jim Soque, COA, CRA  
Island Retina  
Shirley, NY

Dennis W. Thayer  
University of Wisconsin-Madison  
Fundus Photograph Reading Center  
Madison, WI

Cynthia VandenHoven, CRA  
Hospital for Sick Children  
Toronto, ON, Canada

Pamela J. Vargo, CRA  
Fundus Photograph Reading Center  
Madison, WI

## CONTINUING EDUCATION CREDIT

Approved OPS continuing education credits are listed at the end of each course description. This program has been submitted to JCAHPO for consideration of CE credits. Anticipated JCAHPO credits are listed at the end of the course description. Approved credits will also be listed on the OPS website: [www.opsweb.org](http://www.opsweb.org). Continuing Education Credit will be awarded to all registrants who present a ticket for admission/check-in at the beginning of the course, attend the course, and complete the online course evaluation surveys at the conclusion of the program. *CEC credits will also be awarded for The Scientific Paper Session.* CEC documentation will be available through the registrants profile on the OPS website following verification approximately five to six weeks after the Educational Program.

Each attendee must be registered on the OPS website prior to registering for the Annual Program in order to complete the online course evaluation surveys. A handout of the survey questions will be available onsite so attendees can make notes during class which will ease completion of the surveys after the program. Each student must hand in their own ticket or sign the check-in sheets to gain access to the course. The course number and title will be announced at the beginning of each lecture/workshop. Credit will **NOT** be given for less than fifty minutes attendance per hour at either the lectures or workshops. If you arrive more than ten minutes late to a course you will be admitted to the course, but your arrival time will be noted on the check-in sheets. If you leave more than ten minutes before the end of the course, your exit time will be noted on the check-in sheets. If you do not meet the fifty minute per hour requirement, your evaluation will be tallied but you will not receive credit for the course. The Website Administrator will remove CECs for classes where the student did not meet the fifty minute time requirement. Students must complete their own online evaluation surveys when the course has ended. The evaluation surveys may be done via a smart phone or tablet at the conclusion of each course or with other computers at the close of the program. The surveys will be available for approximately three weeks following the close of the program.

If you require a hard-copy for your records, print your list of earned CECs from your profile on the OPS website. Letters will no longer be mailed to program attendees.

- To obtain credit, you must**
1. Register for the course
  2. Meet the course attendance time requirement
  3. Correctly complete the online course evaluation survey at the close of the program.
  4. Print your list of CECs earned from your profile on the OPS website (Optional)

---

## **UPCOMING OPS EVENTS**

### **EDUCATIONAL OPPORTUNITIES**

The OPS is proud to announce that we will be hosting the International Conference of Ophthalmic Photography (ICOP) in Toronto, Canada in place of the midyear educational program.

ICOP Educational Program  
Toronto, Ontario, Canada  
May, 2014

45th Annual Educational Program  
Chicago, Illinois  
October 17 - 21, 2014

### **CERTIFICATION EXAMINATION OPPORTUNITIES**

Look for upcoming CRA performance examinations:  
August 8, 2013 in Rochester, New York  
Spring, 2014 at the ICOP Educational Program in Toronto, Canada  
Fall, 2014 at the Annual Educational Program in Chicago, Illinois

Watch the OPS web site for more information on future programs and examinations - [www.opsweb.org](http://www.opsweb.org)

## THE DON WONG AWARD

*In 1990 the Ophthalmic Photographers' Society established a new award for the best scientific paper presented at each Annual Educational Program. The award is named for Don Wong (1931-1999), a founding member of our Society whose entire career exemplified literary and professional achievement.*

*Don was the creator and first editor of our Journal of Ophthalmic Photography, one of the earliest proponents of the certification program, and the father of the international meeting series. He worked tirelessly to encourage professionalism in our technical work and high ethical standards in our lives. He was a mentor and friend to many.*

*The Don Wong Award recognizes outstanding scientific achievement in our profession. Presentations will be judged by a panel of accomplished colleagues on the basis of content, originality, organization, presentation, delivery and importance to the field.*

## DON WONG AWARD RECIPIENTS

1990	Randall E. Verdick	2001	Dennis Orlock, CRA
1991	George Weir, CRA	2002	Kevin Langton, CRA
1992	Jeff Jacobs, CRA	2003	Lawrence Merin, RBP, FOPS
1993	Jim Gilman, CRA	2004	Dennis Orlock, CRA
1994	Randall E. Verdick	2005	Timothy J. Bennett, CRA, FOPS
1995	Lawrence M. Merin, FOPS	2006	Ethan Priel, FOPS
1996	Linda M. Kelley, CRA	2007	Dennis Orlock, CRA, FOPS
1997	Bobbie A. Turner, AA, CRA, COT	2008	Robert G. Shutt, CRA, OCT-C
1998	Patrick J. Saine, CRA, FOPS	2009	Ditte J. Hess, CRA, FOPS
1999	Csaba L. Martonyi, CRA, FOPS	2010	Leslie D. MacKeen, CRA
2000	Ethan Priel	2011	Alexis Smith, CRA, OCT-C
		2012	Carl Glittenberg, MD

## Johnny Justice Jr. Scholarship

The first Johnny Justice Jr. Scholarship was awarded in 1996 at the 27th Annual Education Program of the Ophthalmic Photographers' Society. Named in honor of Johnny Justice Jr., a principal founding member of the Ophthalmic Photographers' Society, the JJJ Scholarship Award is available to assist in the education of persons actively pursuing careers in ophthalmic photography.

The 2013 JJJ Scholarship Award will provide the chosen applicant with a \$700.00 cash award for any educational courses approved by the OPS. In addition, the scholarship winner will receive course registration, course fees for up to ten course hours, and workshop fees for up to three workshops, if the award is used at the OPS Annual Education Program, or the general registration fee for the OPS Midyear Education Program.

The Johnny Justice Jr. Scholarship Award was created by the Board of Directors of the Ophthalmic Photographers' Society to not only honor its founder, but also to assist its members in their efforts to gain knowledge and expertise in the field of ophthalmic photography.

The Johnny Justice Jr. Scholarship Award and other special projects are supported by the OPS Endowment Fund. The fund is supported by contributions and fund raising activities such as the raffle held during the Annual Educational Program.

# **Journal of Ophthalmic Photography Article of the Year Award**

Since 2003, the Ophthalmic Photographers' Society has awarded the "Journal of Ophthalmic Photography Article of the Year Award". This award was inaugurated to highlight the skills and expertise of those OPS members and ophthalmic colleagues who spare their time and energy to submit their work for publication. They present us with new information, share with us interesting cases or the "nuts and bolts" of ophthalmic imaging.

A committee judges the articles for the relevancy of the topic, degree of innovation, style of writing, quality of illustrations and value to an ophthalmic imager. This culminates in our celebration of the Best Journal Article of the Year and comes with a free one year OPS membership.

We encourage all our readership to submit their work and share with us their tricks and treats. Mentors are available to take you through the process, if necessary. Your continued involvement and support makes the Journal contemporary, vibrant and relevant.

This award recognizes the excellence of published work in the Journal of Ophthalmic Photography, the "flagship" of the Ophthalmic Photographers' Society.

## **Award Recipients**

- 2011 Alexis Smith - Correlation of Ocular Ultrasound and EDI of Ocular Lesions
- 2010 Kirsten Locke - Optical Coherence Tomography in Patients Diagnosed with North Carolina Macular Dystrophy
- 2009 Sarah Moyer - Anterior Segment OCT: A Comparison of Time Domain and Spectral Domain Technologies
- 2008 Alexander Walsh, MD - Spectral Domain OCT: An A to Z Guide
- 2007 Ethan Priel - Fundus Autofluorescence With a Confocal SLO
- 2006 Patrick Saine - Tutorial; External Eye Photography
- 2005 Richard Hackel and Patrick Saine - Creating Retinal Fundus Maps
- 2004 Lawrence Merin - Digital Detection of Diabetic Retinopathy
- 2003 Gregory Hoffmeyer - Mac Pac: A Systemic Protocol for OCT Scanning for Macular Pathology
- 2002 James Scott - An Affordable Alternative to the High Cost of Digital Fundus Photography (inaugural award)

## ***THE CSABA L. MARTONYI AWARD***

In 2008 the OPS Board of Directors established the Csaba L. Martonyi Award, to be given annually to the best image from the OPS Scientific Exhibit. Csaba L. Martonyi, CRA, FOPS is Emeritus Associate Professor and Former Director of Ophthalmic Photography at the Kellogg Eye Center, University of Michigan Medical School. A longtime active member of the Ophthalmic Photographers' Society, he has served on the OPS Board of Directors, was first Chair of the OPS Board of Certification, is a Past President, and recently retired from the post of OPS Parliamentarian. Csaba is well known for his teaching and writing, most notably for the classic text Slit Lamp Examination and Photography, now in its third edition.

This award celebrates the high standards of excellence in imaging that Csaba has exemplified throughout his career. He has always stressed that it is not sufficient for us as professional imagers to simply take the picture that will "get by", but to put our effort and skill into producing images that both serve a medical purpose and demonstrate technical and artistic perfection. He has demonstrated his ability to accomplish this through the countless awards that his photographs have won, and he encouraged others in his profession to strive for these same goals through his teachings. This goal, which Csaba has championed throughout his career, is the heartbeat of our Scientific Exhibit.

Please join the OPS Board of Directors in congratulating Csaba L. Martonyi, CRA, FOPS on the establishment of this award in his honor and consider entering your best work for consideration in the 2013 Scientific Exhibit competition and the opportunity to be the sixth recipient of the Csaba L. Martonyi Award.

### **Award Recipients**

2008 Robert Myles, CRA

2009 David Miller, CRA

2010 Ditte Hess, CRA, FOPS

2011 Zlatan Sadikovic, CRA

2012 Allan Connor

# **SONOMED ESCALON AD**





OPHTHALMIC PHOTOGRAPHERS' SOCIETY  
EYE IMAGING EXPERTS

Membership Office  
1887 W. Ranch Rd.  
Nixa, MO 65714 USA  
417-725-0181 (outside USA)  
1-800-403-1677 (USA only)  
417-724-8450 (Fax)

## APPLICATION FOR MEMBERSHIP

Name \_\_\_\_\_  
(Last, First, Middle Initial) (Certification or Licensure)

### Mailing Address for OPS Correspondence

### Credit Card Information

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Office Telephone (include country and city codes if outside the USA)  
\_\_\_\_\_  
Fax  
\_\_\_\_\_  
Home Telephone (Optional)  
\_\_\_\_\_  
Email

\_\_\_\_\_  
Account Number  
\_\_\_\_\_  
Expiration Date Verification Code  
\_\_\_\_\_  
Name on Card (please print)  
\_\_\_\_\_  
Signature  
\_\_\_\_\_  
Billing Address (if different than the mailing address)  
\_\_\_\_\_

Credit Cards Accepted: Visa, Mastercard, Discover

**Annual Membership Fee - \$90.00**

A Member's expiration date is 365 days from the date the initial payment is posted. Renewal notices are sent electronically 60 days prior to a member's expiration date. Memberships not renewed within 60 days following their expiration date will stop receiving mailings from the Society.

TOPCON Ad