Nov 3-5, 2023
The Westin St. Francis, Union Square
San Francisco, California
54th Annual Education Program
2023 PROGRAM SPONSORS

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The Ophthalmic Photographers’ Society wants 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.
Online Registration Instructions for the Annual Meeting

The OPS will be granting continuing education credits (CECs) electronically through our website. It is necessary for EVERY program attendee to have a profile established through the OPS website as either a member or a non-member program attendee. This will be the only way 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 to receive the CEC's, you will need to establish a profile on the OPS website before proceeding to the educational program registration. Go to the OPS home page (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 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 program 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 “54th 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. **Please select your courses carefully.** Using the “Conference-At-A-Glance” sheet to avoid overlapping courses is helpful. You will pay the general registration fee in addition to a fee for each course you select.

After selecting the courses you wish to attend, please 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 while you are onsite at the program. The credit card payment is 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.

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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). Continuing Education Credit will be awarded to all registrants who check in 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.)
Registration Information

**Pre-Registration**
To pre-register, **online registration must be completed by October 3rd, or the printed registration form must be received by October 3rd.** Pre-registration saves you time and money and increases the chance that you will receive all requested classes and workshops. Acceptable forms of payment are checks in U.S. dollars, Visa, Mastercard, Discover, or American Express. **If you pre-register, you must bring your confirmed list of courses and pick up your registration materials in the on-site registration area.**

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

Early registration is always recommended as all courses are first come, first serve. Attendees will still select the individual lectures and workshops they wish to attend to ensure enough seats for everyone. All lectures and workshops are one hour in length (unless otherwise noted in the program). Guest tickets for the reception are also available.

<table>
<thead>
<tr>
<th>Course Type</th>
<th>OPS Mbrs</th>
<th>Non-OPS Mbrs</th>
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<tbody>
<tr>
<td>Registration (by 10/3)</td>
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<td>$  95</td>
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<tr>
<td>Registration (after 10/3)</td>
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<td>Per Workshop</td>
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<td>Crash Course-OCT</td>
<td>$150</td>
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<td>Crash Course - Fundus</td>
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**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 program 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 the Olympic Room and will be open Thursday 6:30 pm - 8:00 pm; Friday, Saturday and Sunday 7:00 am - 4:00 pm. 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.

**Program Changes**
The OPS is not responsible for unforeseen changes that may occur after publication of the program.

**Refund Policy**
Cancellations prior to November 2, 2023 will incur a $50.00 cancellation fee. Pre-registration and workshop fees will not be refunded after November 2, 2023. Courses may be exchanged if seats are available. Fees will not be refunded nor will changes be made after the event has begun.

**Workshop Lecture “WSL” Course Registration**
Many workshops have lecture prerequisites. **You are encouraged to complete the workshop lecture before the workshop.** Lecture material will not be presented during the workshops. Workshop lectures are marked “WSL” in the course descriptions.
2023 Educational Program Team

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Dear Friends and Colleagues,

It is with great honor that I welcome you to the Ophthalmic Photographers’ Society 54th Annual Education Program presented live! We are excited to see each and every one of you in person at the Westin St. Francis, Union Square in San Francisco for a 3 day program from November 3rd-5th. Our Welcome Reception (which everyone is welcome to attend) will be on the evening of November 3rd.

In the last few years, we were not able to be together in person which made hands-on training difficult or impossible. As we return to live programs, I am proud to announce that there will be 19 workshop courses to choose from with a large variety of topics. Also returning is a re-imagined crash course program – one for OCT and one for Fundus Photography – which has always been a great help to our newer photographers.

The annual J. Donald Gass Memorial Lecture will be delivered by Dr. Deeba Husain on the Biomarkers of Age Related Macular Degeneration (ARMD). Dr. Husain comes to us from Massachusetts Eye and Ear Hospital and was trained by Dr. Gass. Her talk on the biomarkers will explore the possibilities and challenges in recognizing and treating ARMD which is the leading cause of blindness in the geriatric population. With early biomarker detection, there is hope that treatments will prevent progression to more advanced stages of disease.

I want to thank the entire Board of Education for their dedication to making this program wonderful, the speakers offering up their knowledge, and the volunteers that help run the program. A special thanks to Barb McCalley, our executive director, for her tireless work in keeping the OPS running smoothly behind the scenes. Another special thanks to Tony Medina, the Chair of the Board of Education, who has provided assistance at every challenging step in making this program happen. And last, but certainly not least, the coordinators for each arm of the program: Jim Soque, Mike Mackens, Shannon McLaughlin, Megan Walsh, and Holly Cheshier. Without this outstanding group, we would not have the program before you today.

And thank YOU for attending this year’s annual program. I hope you will find new information and inspiration here. Without further ado, let the educating begin!

Hannah Sheppard CRA, OCT-C, CDOS
Education Chair and Secretary, OPS Board of Education
MERIT
SPECIAL EVENTS
&
ORGANIZATIONAL MEETINGS

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

Scientific Exhibit Committee - will hold a Zoom meeting, conducted by Jody Troyer, CRA, OCT-C prior to the Annual Program.

Room Monitor Orientation - will be conducted by Holly Cheshier by Zoom a few days before the start of the annual program.

Thursday, November 2nd

Registration Opens - 6:30 pm - 8:00 pm - Olympic Room

Friday, November 3rd

OPS Paper Session - 4:15 pm - 5:15 pm - Elizabethan A/B - 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. This is a wonderful educational opportunity! A published collection of the abstracts will be available at the session. Continuing education credits will be granted to those attending this session. Included as part of the General Registration fee.

Awards Presentation - 5:15 pm - 6:00 pm - Elizabethan A/B - Immediately following the OPS Paper Session, President Elizabeth Affel will present the awards for The Chris Barry Award (Best Journal Article of 2022), the Csaba Martonyi Best of Show and Best of Division in the Scientific Exhibit 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 - 6:30 pm - 8:30 pm - Colonial- The perfect way to kick off the OPS’ return to a live/in-person program and all of your important evening social events while in San Francisco - 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 San Francisco fare, bask in the incredible award winning images from our 2023 Scientific Exhibit, and share in congratulating our Award winners. Please join us for this festive celebration to kick off a great educational program!

Vendor Forum - 6:00 pm - 8:30 pm - California West - Vendors participating in OPS workshops will demonstrate their products and latest technologies answering questions from attendees during the Vendor Forum which will be open during the Welcome Reception. Attendees will be able to speak with Vendors, receive further training, getting firsthand practice with multiple imaging devices and enjoy some great San Francisco food. This will be a great opportunity to glean many tips, tactics and pearls of wisdom about these devices directly from the source. Be sure to bring your notebook for this hands-on experience.
Saturday, November 4th

The J. Donald M. Gass Memorial Lecture - “Biomarkers of Age-Related Macular Degeneration” – 8:00 - 9:00 am - Colonial Room - In 1969 Johnny Justice Jr. and some like-minded colleagues had a dream of starting a professional society for ophthalmic photographers. Since those early days, the Society has evolved into the vibrant organization that we know today. I would like to introduce you to this year’s Gass Lecturer. Dr. Deeba Husain has an extensive and impressive history in Ophthalmology. She began her career in medicine at Aligarh University in India and obtained her ophthalmology training there as well. She began her first fellowship in retina as a research fellow at the University of Maryland and then continued to train at some of the most prestigious academic medical centers around the US. She studied with Joan Miller at Massachusetts Eye and Ear at Harvard Medical School and with J. Donald M. Gass at Vanderbilt University. Currently, she is practicing in Boston Massachusetts at several hospitals including Mass Eye and Ear. In addition to a solid training foundation and a booming medical career, Dr. Husain has also performed game-changing research in the world of ophthalmology. She has served as principal investigator in more than 20 projects and presented her research in venues across the globe. Some of her most notable clinical innovations include the work that lead to the FDA approval of PDT therapy in AMD, the first translational study to show that PDT could be safely combined with antiVEGF therapies. She is also responsible for forming an international collaborative team studying the metabolomics of AMD and working toward understanding completely the molecular basis of retinal loss of function. In a related field, Dr. Husain has also helped to establish dark adaptation as a new measure of visual function in AMD using metabolomics as a tool. In addition to her clinical research and clinical practice, Dr. Husain also helps to form the next generation of retina specialists and has trained many residents and fellows over the years in both research and clinical spaces. We very much look forward to hearing about her ground breaking research in her lecture on Saturday, November 4th titled “Biomarkers in Age Related Macular Degeneration.”

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

Fellowship Committee - 4:00 pm - 6:00 pm - Location TBD - Annual business meeting conducted by the OPS Fellows. Contact Gary Miller, CRA, OCT-C, FOPS regarding agenda items (gmiller@geisinger.edu)

Sunday, November 5th

OPS Membership Meeting - 4:00 pm - 5:30 pm - Elizabethan B - 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 Elizabeth Affel, OCT-C, FOPS, c/o OPS Membership Office, (800) 403-1677, for information about adding items to the meeting agenda.

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 Ron Hall, CRA, OCT-C (cra@opsweb.org) or Tami Schoenholz, CRA, OCT-C, FOPS (oct.c.chair@gmail.com) for information on how to schedule your written exam.
FRIDAY, NOVEMBER 3rd

8:00 am – 9:00 am

FR-1-A  Elizabethan A
Adverse Events in Angiography (NEW)
Darrin Landry, CRA, OCT-C, FOPS
In this lecture, discussion will be made about common side effects and possible reactions encountered in the course of ophthalmic imaging, and the role the ophthalmic medical personnel have in emergency situations. At conclusion of the lecture, the attendee should be able to: explain the difference between side effect and reaction; understand the role ophthalmic imagers/technicians have in medical emergencies; and describe how to initiate protocol for the mitigation and handling of adverse events.
Beginner
CEC OPS 1; IJCAHPO-A 1

FR-1-B  WSL  Elizabethan B
Standard Techniques of Gonioscopy and Goniography
Beth Ann Benetz, CRA, FOPS
Successfully viewing and documenting the iridocorneal angle is a challenging and rewarding task for the ophthalmic photographer. Viewing and documenting angle structures requires skillful use of the slit lamp microscope to light and properly expose the subject matter all while maintaining patient compliance. This course will include a brief overview of the history of direct and indirect gonioscopy techniques to view the angle. Students will then learn the skill set needed to visualize and image the angle using single, three or four mirror gonio lens. In this course lighting techniques, camera positioning, magnification and patient management will be discussed using images provided by our workshop instructors. At the completion of this course, students will be able to identify the key landmarks of the angle, discuss patient management techniques, describe slit lamp lighting techniques for successful gonio imaging, and describe the correct positioning of the gonio lens on the eye to reveal the angle structures. Students will be able to identify common abnormalities as seen in the iridocorneal angle.
Level: Intermediate
CEC OPS 1; IJCAHPO-A 1

FR-1-C  Elizabethan C
Times My Photographer Saved Me (NEW)
Robert Swan, MD
This course reviews imaging modalities as applied to an ocular inflammatory practice. Specifically, instances where a well-trained photographer obtained an image that led to the correct diagnosis for a mystery patient. Cases are going to be selected based on their generalized applicability. Imaging modalities expected to be mentioned include: OCT, Color Fundus Photography, FA/ICG, Bscan/UBM, Slit Lamp photography. At the end of the course the student should understand the value of sweeps in angiography, even with wide-field formats; be aware of the utility of wide-field color fundus imaging in pediatric patients; and see how ultrasound biomicroscopy can help confirm suspicion of a malpositioned intraocular lens.
Beginner
CEC OPS 1; IJCAHPO-A 1

8:00 am – 11:30 am

FR-1-D  Elizabethan D
Ophthalmic Imaging Crash Course - Fundus
Christye Sisson CRA, FOPS
Fundus photography has been an important part of clinical practice for more than 100 years. As the technology has evolved and improved, the basic tenants of photography remain. In this course, directed at students with minimal experience with fundus photography, students will develop their photography skills so that they can return to clinic and easily transition into a skilled photographer. Hands on instruction will be provided and dilated subjects will be present for practice sessions. At the end of the course the student should have a basic understanding of ocular anatomy and landmarks; be able to describe the functions of the fundus camera and the identification of good images and common artifacts; and be able to operate the fundus camera and take a photo of a normal subject.
CEC OPS 3.5; IJCAHPO-A 3.5

9:10 am – 10:10 am

FR-2-A  Elizabethan A
Optical Coherence Tomographic Angiography (OCT-A)
Darrin Landry, CRA, OCT-C, FOPS
In this lecture, the science of OCT angiography will be discussed. Common protocols and standards, along with artifact and anatomical identification will be covered. At conclusion of the lecture, the attendee should be able to: describe how OCT Angiography works; understand the various scan options available on most commercial OCT Angiography devices; explain how to utilize the options available on OCT Angiography systems to their fuller potential to provide the physician with the optimal data; identify common artifacts on OCT Angiography images; and understand how to identify normal and abnormalities on OCT Angiography images.
Beginner
CEC OPS 1; IJCAHPO-A 1
FR-2-B  WSL  Elizabethan B
Introduction to Ultra-Widefield Imaging
Olivia Rainey, OCT-C, COA
This lecture will introduce what ultra-widefield (UWF) imaging is, how it is useful, and what instruments can be used to image the far periphery of the eye. It will elaborate on principle features of ultra-widefield imaging and help identify how to improve imaging quality. It will discuss various imaging modalities such as fundus color photography, fundus autofluorescence, and fluorescein/indocyanine green angiography. It will help students understand how to recognize and image peripheral pathology with each modality. Upon completion of the course, the student should understand the advantages of ultra-widefield imaging systems; be able to identify ultra-widefield imaging modalities and artifacts; and be able to identify pathology with ultra-widefield systems.
Beginner
CEC OPS 1; IJCAHPO-A 1

FR-2-C  Elizabethan C
FUNdamentals of Color Fundus Imaging
Denice Barsness, CRA, FOPS
Previous experience with ocular anatomy and ophthalmic imaging helpful but not required.
Color fundus imaging has been utilized in ophthalmology for over 50 years. While the instrumentation has seen significant evolution, the fundamentals of this imaging modality have remained fairly static. This course will address the basic principles of color fundus imaging to include color fundus imaging from 30 degrees through current widefield imaging. The fundamental components of the instrumentation required will be discussed. Documentation vs. Diagnostic imaging will be reviewed. Common artifacts and their corrections will be reviewed using case studies. Upon completion of this course the student should: have an increased understanding of the fundamentals of color fundus imaging; be able to discuss with greater accuracy the role of wavelengths and filters in color fundus imaging; and be able to name the various angles of view currently available and common applications of all.
Beginner
CEC OPS 1; IJCAHPO-A 1

10:20 am – 11:20 am

FR-3-A  Elizabethan A
Let It Glow- Navigating Fundus Autofluorescent Imaging
Darrin Landry, CRA, OCT-C, FOPS
Under certain wavelengths of light, there are many naturally occurring fluorophores in the eye. As ophthalmic photographers, it is crucial to understand the process of auto-fluorescent imaging. With the advent of approved treatment for geographic atrophy, clinicians are now depending more on FAF than ever before. This course will present an overview of the spectrum of light wavelengths and its uses in ophthalmic imaging, along with equipment and techniques for acquiring FAF images.
Artifacts, pathology and normal AF will be discussed, along with the incorporation of FAF into a multimodal imaging “toolbox”.
At the conclusion of the lecture, the attendee should be able to describe how autofluorescence differs from fluorescence; understand the application of fundus autofluorescence in the clinical setting; and describe the equipment used in capturing fundus autofluorescence.  
CEC OPS 1; IJCAHPO-A 1

FR-3-B  Elizabethan B
Detection of Occult Retinal Vasculitis on Fluorescein Angiography in Patients with Non-Infectious Uveitis (NEW)
Jennifer Cao, MD
This course will focus on non-infectious uveitis and its ocular effects. Non-infectious uveitis can be differentiated from other types of uveitis using ocular imaging. In this course students will be able to describe non-infections uveitis, describe why fluorescein angiography is important in non-infectious uveitis, and recognize retinal vasculitis on fluorescein angiogram images.
Beginner
CEC OPS 1; IJCAHPO-A 1

FR-3-C  Elizabethan C
Multimodal Imaging of Optic Nerve Head Drusen
Denice Barsness, CRA, COMT, CDOS, ROUB, FOPS
This course will provide a detailed anatomical lesson of the optic nerve for the ophthalmic imager. Detailed features unique to the optic disk (optic nerve head) and optic nerve will be discussed using pathology slides, diagrams and clinical examples. Specific features and anatomical landmarks useful to the ophthalmic imager will be emphasized.
This course is intended to go beyond the usual anatomical description of the optic nerve and to provide the ophthalmic imager with increased insight into the role of Autofluorescence imaging and/or diagnostic ultrasound for the documentation and management of Optic Nerve Head Drusen. Comparative studies will be shown using case studies.
Upon completion of this course, the student should have an increased knowledge of the anatomy and physiology of the optic nerve as it pertains to axoplasmatic transport and the etiology of ONH Drusen; an enhanced understanding of features unique to ONH Drusen and how to best utilize imaging modalities to illustrate their presence and nature; and have an increased understanding of the use of autofluorescence imaging in the presence of calcified nodules of the ONH.
OPS CEC 1; IJCAHPO-A 1
11:30 am – 12:30 pm

FR-4-A Elizabethan A
Multimodal Imaging: Interesting Retina Cases
Jaclyn Pisano
In the world of ophthalmic photography, we encounter many fascinating presentations of disease whether common or rare. In this course, interesting retina cases using SD-OCT, OCT-A, Widefield imaging, and FA/ICG will be presented. Students will learn when to use different diagnostic modalities to assist with identifying retina pathology. Techniques and tips using all different diagnostic machines will be offered. Clinical cases will also be presented to increase understanding of patients and pathology in context. At the end of this course, students will be able to correlate OCT with ICG and FA, choose the correct modality for the job, and recognize post treatment results.

CEC OPS 1; IJCAHPO-A 1

FR-4-B Elizabethan B
Corneal Endothelial Imaging, Analysis and Clinical Trials
Beth Ann Benetz, CRA, FOPS
Specular microscopy, corneal endothelial imaging and analyses has long been used as a measure of corneal health, a measure of the endothelial cell reserve and a method of monitoring corneal dystrophies. In clinical trials, endothelial cell density and morphology assessments over time are used as both safety and efficacy measures. In this presentation, clinical applications as well as clinical trials applications for endothelial imaging, various techniques and instruments for imaging, the most common analyses tools and common imaging and analyses challenges will be discussed. After this lecture the attendee will understand corneal endothelium imaging instruments, imaging techniques, analyses method selection and common imaging and analyses challenges.

Level: Basic

CEC OPS 1; IJCAHPO-A 1

FR-4-C Elizabethan C
FUNdamentals of Fluorescein Angiography
Denice Barsness, CRA, COMT, ROUB, CDOS, FOPS
Previous experience with ocular anatomy and ophthalmic imaging helpful but not required. This presentation will provide a comprehensive overview of the fundamental principles of Sodium Fluorescein Angiography and a brief shout out to Indocyanine Green Angiography. Concepts such as transit, mid and late phases, hypo and hyper fluorescence will be discussed using clinical examples. Mechanical and optical components of the angiography system(s) will be reviewed. A common “how to” game plan for specific disease entities will be covered in length. Upon completion of this course the student should have an increased understanding of common terminology used in angiography, be able to name the general phases in sodium angiography transit studies, and be able to explain the various wavelengths utilized in sodium fluorescein and describe the differences between exciter and barrier filters.

Beginner

CEC OPS 1; IJCAHPO-A 1

11:30 pm – 3:00 pm

FR-4-D Elizabethan D
Ophthalmic Imaging Crash Course - OCT
Christye Sisson, CRA, FOPS
OCT is a vital part of ophthalmology and optometry today and provides physicians with valuable information about how to move forward with treatment. In this course, students will go from having none or very little knowledge about OCT to being able to take an OCT scan on a normal eye and easily transition to clinical practice. This course will include basic eye anatomy, pearls and pitfalls, and a hands-on learning experience for new imagers with access to several OCT models including Zeiss, Heidelberg, and Topcon. Upon completion of the course, the student will be able to identify basic ophthalmic anatomical landmarks; identify a correctly imaged OCT; and operate and identify the functions of an OCT machine.

Level: Basic

CEC OPS 3.5; IJCAHPO-A 3.5

12:40 pm - 1:40 pm

FR-5-A WSL Elizabethan A
Clinical Applications of Anterior Segment OCT
Jennifer Humenny, CRA, OCT-C
Anterior Segment OCT (AS-OCT) is an imaging modality commonly used by cornea and glaucoma specialists. This course will cover the anatomy of the anterior segment and how AS-OCT can be used to document these structures. Techniques for optimizing AS-OCT images will be presented with a special focus on the Heidelberg and Zeiss platforms. Upon completion of this course, students will be able to identify the best AS-OCT imaging method to properly document pathology and understand the importance of these images to clinicians.

CEC OPS 1; IJCAHPO-A 1

FR-5-B Elizabethan B
Multimodal Imaging of the Retina (NEW)
Ryan Nelson, OCT-C, CRA
The purpose of this course is to gain knowledge on the practical applications of Multimodal Imaging of the Retina, such as, but not limited to OCT, Fundus Photography, Ultrasound and Fundus Autofluorescence. Upon completion of the course the attendees will be able to use Multimodal Imaging in a high volume Retina Specialty Practice to streamline imaging workflow; be able to identify when various imaging modalities should be applied prior to the physician's exam; and have a better understanding of the technical knowledge of capturing images.

Advanced

CEC OPS 1; IJCAHPO-A 1
This course will cover Optical Coherence Tomography (OCT-A) can be utilized as a non-invasive diagnostic tool to classify and monitor retinal vasculature. Techniques for optimizing OCT-A images will be presented with a special focus on Heidelberg and Zeiss platforms. Upon completion of this course, students will have an increased understanding of OCT-A technology, recognize pathology that is best suited for OCT-A, and identify basic pathological findings related to AMD and PDR.

**CEC OPS 1; IJCAHPO-A 1**

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**FR-7-A**  
**WSL**  
**Elizabethan B**  
**OCT-A Practical Techniques**  
*Jennifer Humenny, CRA, OCT-C*

This course will demonstrate how OCT Angiography (OCT-A) can be utilized as a non-invasive diagnostic tool to classify and monitor retinal vasculature. Techniques for optimizing OCT-A images will be presented with a special focus on Heidelberg and Zeiss platforms. Upon completion of this course, students will have an increased understanding of OCT-A technology, recognize pathology that is best suited for OCT-A, and identify basic pathological findings related to AMD and PDR.

**CEC OPS 1; IJCAHPO-A 1**

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**FR-7-B**  
**Elizabethan B**  
**The Jamie Nicholl Symposium: Controversies in Ophthalmic Photography**  
*Paula Morris, CRA, FOPS - Moderator*

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; IJCAHPO-A 1**

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**FR-7-C**  
**Elizabethan C**  
**Intermediate Fundus Photography**  
*D. Brice Critser, CRA, OCT-C, FOPS*

This course will provide an overview of current imaging devices available to ophthalmic photographers on the market today. There will also be a review of standard imaging techniques and problem solving solutions to artifacts. As things change in ophthalmology and in ophthalmic imaging, new technologies become available and this course will discuss the new directions and abilities...
that ophthalmic imaging systems will have in the future. At the end of this course, the student will be able to identify multiple imaging systems, identify artifacts including the orange ring and eyelashes, and describe the most common photographic techniques.

Intermediate

CEC OPS 1; IJCAHPO-A 1

4:15 pm – 5:15 pm
OPS Paper Session*
Elizabethan A/B
CEC OPS 1; IJCAHPO-A 1

5:15 pm – 6:00 pm
Awards Presentations*
Elizabethan A/B

6:00 pm – 6:30 pm
Vendor Forum*
California West

6:30 pm – 8:30 pm
Welcome Reception*
Colonial Ballroom

*This event is included as part of the general registration fee.

SATURDAY, NOVEMBER 4th

8:00 am – 9:00 am

J. Donald M. Gass Memorial Lecture
SA-1-A
Colonial

Biomarkers of Age-Related Macular Degeneration
Deeba Husain, MD

Age-related Macular Degeneration (AMD) is the leading cause of blindness in the elderly. The majority of cases of AMD are early or intermediate and the hallmark of this stage of disease is the presence of small yellow deposits called drusen. About 10% of patients have a more advanced form of disease; either the wet form characterized by the presence of blood and fluid in the macula, or atrophy characterized by loss of retinal tissue in the macula. The classification of AMD per the National Eye Institute is based on color photographs of the macula. There are several problems with the current methods of diagnosis of AMD affecting prognosis. This leads to loss of vision due to a delay in diagnosis. Currently there are no treatments for the early forms of AMD and there is a great need for better ways of diagnosis, prognosis and finding new treatments. We will end by talking about the research ongoing to address these unmet needs including use of Ocular Coherence Tomography, widefield retinal imaging, vascular imaging with OCTA, functional imaging, structure function correlation and use of omics with imaging to find novel biomarkers and treatment targets. Upon completion of the course the student should have a better understanding of the role of retinal imaging in current diagnosis and prognosis of age-related macular degeneration; will understand the unmet needs in ARMD; and will understand the research in newer imaging devices, structure function correlations and novel tools to find AMD biomarkers.

CEC OPS 1; IJCAHPO-A 1

9:10 am – 10:10 am

SA-2-A
Georgian
Advanced Use of OCT
Olivia Rainey, OCT-C, COA; James Soque, CRA, OCT-C, COA, FOPS

Optical coherence tomography (OCT) has revolutionized ophthalmic imaging and continues to do so as we transition into the next decade. OCT primarily has been used for imaging the posterior pole and documenting macular changes. This lecture will instruct how to utilize your system maximally, especially for documenting layers of the retinal pathology requiring surgery, as well as uses for OCT in the peripheral retina. We will emphasize the importance of understanding the mechanical involvement of the vitreous cortex in both the macular region and the peripheral region and how these can play a role in retinal diseases. Fundamental and advanced techniques of image placement will be discussed and how these will aid diagnosis, monitor disease progression or morphology, and reveal response to treatments. Emphasis on surgical examples will be presented involving Pars Plana Vitrectomy and Retinal Surgery and how best to utilize OCT with the Heidelberg widefield lens. Upon completion of this course the attendee should be able to further understand how their OCT device can aid in the decision of advanced treatment modalities made by their physician at the time of diagnosis; use OCT to assist physicians with following disease progression and diagnosis; and further understand retinal pathology, that may need surgical intervention, by documenting layers of the retina with OCT.

Intermediate

CEC OPS 1; IJCAHPO-A 1

SA-2-B-WS
Elizabethan D
Beginner OCT Workshop
Holly Cheshier, CRA, OCT-C, FOPS-Coordinator

In this workshop we will discuss the hardware and software of each OCT available to understand how to use it effectively and efficiently to maximize your imaging. After completing this workshop attendees should have an understanding of the multiple scans available on each device and their uses, be able to acquire quality OCT images, and know tips and tricks to strengthen their skills with difficult imaging. At the time of printing, the following vendors have committed to participate in this workshop: Heidelberg Engineering,
Zeiss, and Topcon Healthcare. The OPS is not responsible for any last minute cancellations.

Beginner
CEC OPS 1; IJCAHP-O-A 1

SA-2-C-WS California East
Introduction to Slit Lamp Workshop
Michael Bono, CRA, FOPS - Coordinator
Prerequisite: Attending the lecture FR-6-A, Slit Lamp Photography is STRONGLY encouraged.
This workshop is designed to help students develop the techniques and lighting skills needed for photographing the anterior segment with the photo slit lamp using model eyes and other participants as subjects. Students will work with a variety of slit lamp instruments under the guidance of experienced photo slit lamp photographers. Students will have the opportunity to use direct illumination, indirect illumination, proximal illumination, retroillumination, and scleral scatter. At the conclusion of this workshop, the attendee should understand how to develop an imaging plan, be familiar with how to manipulate the slit lamp controls to achieve different lighting schemes, and understand which lighting techniques are best for different anterior segment pathology. At the time of printing, the following vendors have committed to participate in this workshop: Topcon Healthcare, Haag-Streit, and Zeiss. The OPS is not responsible for any last minute cancellations.
Beginner
CEC OPS 1; IJCAHP-O-A 1

SA-3-A Georgian Rm
UBM Practical Tips and Techniques
Maru Bretana, MD, CDOS
The class is designed for intermediate ocular sonographers who are able to identify anatomy and regularly do sonographic exams. Students will be instructed on the evaluation of the anterior chamber using UBM including tips on how to obtain higher quality images. The class will explain how to assess anterior segment pathologies, such as tumors, iris cleft, IOL positioning, dynamic evaluation of the angle, and more. At the end of the course, students will be able to describe standard anterior chamber examination with UBM, identify tumors, iris clefts, IOL positioning, and abnormal angle physiology, and identify the anatomical structures of the anterior chamber in UBM images.
CEC OPS 1; IJCAHP-O-A 1

SA-3-B-WS Elizabethan D
Anterior Segment OCT Workshop
Jennifer Humenny CRA, OCT-C - Coordinator
This workshop is an introduction to performing Anterior Segment OCT (AS-OCT) imaging. This is a hands-on course where participants will familiarize themselves with the hardware and software of multiple imaging systems. Multiple scan patterns and techniques for capturing high quality images will be covered for each device. Upon completion of this workshop, participants will be able to identify AS-OCT procedures and will be able to utilize basic techniques to obtain images. At the time of printing, the following vendors have committed to participate in this workshop: Heidelberg Engineering, Topcon Healthcare, and Zeiss.
Please note: this workshop is directed towards imagers with little to no experience with AS-OCT imaging.
CEC OPS 1; IJCAHP-O-A 1

SA-3-C-WS California East
Beginner Fundus Photography Workshop
Vera Kan, CRA - Coordinator
This hands-on workshop is designed for imagers with little to no previous experience with fundus photography. Participants of this workshop should be prepared to have one eye pharmacologically dilated and must sign a consent form. At the conclusion of the workshop, attendees should have an understanding of basic fundus photography, including understanding the controls and features of a variety of fundus cameras, be able to recognize artifacts and know how to correct them, and be able to obtain quality images for macular and optic nerve diseases. At the time of printing, the following vendors have committed to participate in this workshop: Topcon Healthcare, Zeiss, Ophthalmic Labs, and iCare. The OPS is not responsible for any last minute cancellations.
Beginner
CEC OPS 1; IJCAHP-O-A 1

SA-4-A WSL Georgian Rm
Coming to Terms with Terms: Understanding How Neonatal and Pediatric Fundus Imaging Differs From Adult Fundus Imaging
Candice White, CRA, OCT-C, COA
Imaging the retina of neonates and children comes with a special skill set. This lecture will discuss the current knowledge base of adult retinal imaging and the necessary interpretations that must be made to ensure an understanding of imaging the neonatal and pediatric retina. Terms used in adult retinal imaging, such as "image quality", will be explored to redefine the terms as they relate to contact retinal imaging in eyes that are less than ideal. After attending this lecture attendees should be able to understand the differences in techniques related to adult retinal imaging vs neonatal retinal imaging and redefine the terms used to describe neonatal and pediatric retinal imaging.
CEC OPS 1; IJCAHP-O-A 1

SA-4-B-WS Elizabethan D
Advanced OCT Workshop: Enhancing Clinical Practice with Advanced Imaging Techniques
Ron Hall, CRA, OCT-C - Coordinator
This hands-on workshop is designed to provide imaging specialists with advanced knowledge and skills in Optical Coherence Tomography (OCT) imaging. Participants will gain a comprehensive understanding of advanced OCT imaging techniques, interpretation, and analysis. This workshop is designed to provide those advanced skills
and knowledge needed to enhance their clinical practice improving the care and outcomes for their patients. At the conclusion of this workshop, attendees should gain a comprehensive understanding of advanced OCT imaging techniques, including Spectral Domain OCT (SD-OCT) and Swept-Source OCT (SS-OCT), and the principles of advanced OCT image acquisition and interpretation; Gain hands-on experience with OCT imaging equipment and software, and learn how to optimize image acquisition and interpretation, troubleshoot common problems, and identify potential sources of artifacts in OCT imaging; be able to apply OCT imaging to clinical practice with skill and confidence, improving the care and outcomes of patients with ophthalmic conditions, while optimizing image quality and analyzing complex OCT images. At the time of printing, the following vendors have committed to participate in this workshop: Heidelberg Engineering, Zeiss, and Topcon Healthcare. The OPS is not responsible for any last minute cancellations.

Advanced

CEC OPS 1; IJCAHPO-A 1

SA-4-C-WS California East
Fundus Photography Tricks: Brows, Lids and Noses
Kathleen Warren, OCT-C - Coordinator
As photographers, our daily clinics present us with a variety of different profiles and patient facial features that can sometimes make imaging a little tricky. In this workshop, with the help of some of today’s top fundus cameras, we will discuss what those challenges are and discover how to get around them - ensuring successful and most importantly, good quality (and useful) images. At the conclusion of this workshop, attendees should understand how to adjust our patients with simple modality maneuvers and helpful tricks to achieve useful images, understand camera limitations and abilities, feel comfortable operating to specific needs, and overall have a better way to communicate to our patients what we need in order to achieve top images. At the time of printing, the following vendors have committed to participate in this workshop: Topcon Healthcare, Zeiss, Ophthalmic Labs, and iCare. The OPS is not responsible for any last minute cancellations.

CEC OPS 1; IJCAHPO-A 1

12:40 pm – 1:40 pm

SA-5-A WSL Georgian Rm
Advanced Fundus Imaging: Strategies for Clinical and Research Imaging
Pamela Vargo, CRA
This advanced course is a detailed overview of the imaging of the (7M) seven modified and (4W) four wide-angle stereoscopic fields used in diabetic studies. Emphasis will be focused on fine tuning techniques of field definition; stereoscopic imaging and imaging techniques will be discussed. Insightful and helpful tips will be offered. At the end of the course, the student will be able to identify the (7M) seven modified fields and the (4W) four wide-angle fields and understand the capture orientation to the optic nerve. This course is NOT for beginners, but intended for technicians with imaging experience of a minimum of one (1) year imaging the seven modified fields.

This lecture is MANDATORY if you wish to attend the corresponding workshop, Advanced Stereo Fundus Imaging Workshop, SA-6-B-WS.

Level: Intermediate

CEC OPS 1; IJCAHPO-A 1

SA-5-B-WS Elizabethan D
OCT-A Workshop
Jennifer Humenny, CRA, OCT-C - Coordinator
This workshop is a hands-on introduction to capturing OCT Angiography (OCT-A) images with the available FDA approved devices. Participants will be divided into groups to work with each of the devices performing image capture, segmentation correction, scan quality assessment, and exporting OCT-A images. Upon completion of this workshop, participants will be able to perform OCT-A imaging, correct segmentation errors, and assess the scan quality. At the time of printing, the following vendors have committed to participate in this workshop: Heidelberg Engineering, Topcon Healthcare, and Zeiss.

Please note: this workshop is directed towards imagers with little to no experience with OCT-A imaging, but participants should be familiar with basic OCT techniques.

CEC OPS 1; IJCAHPO-A 1

SA-5-C-WS California East
Introduction to UWF Imaging Workshop
Olivia Rainey, OCT-C, COA - Coordinator
This workshop is a hands-on introduction to capturing OCT imaging, correct segmentation correction, scan quality assessment, and exporting OCT-A images. Upon completion of this workshop, participants will be able to identify and correct artifacts with ultra-widefield imaging, and have a basic understanding of the imaging modalities discussed. Students should be prepared to have one eye pharmacologically dilated. At the time of printing, the following vendors have committed to participate in this workshop: Optos, Zeiss, Heidelberg Engineering, and iCare Eidon 60. The OPS is not responsible for any last minute cancellations.

CEC OPS 1; IJCAHPO-A 1

1:50 pm – 2:50 pm

SA-6-A Georgian Rm
Clinical Assessment of Anterior Segment Disorders: Case Challenges
John Conto, OD, Dipl AAO
This course will present selected clinical cases of anterior segment disorders that use either slit lamp photography or anterior segment OCT to assist in diagnosis and treatment. At the end of the course the student should have a better
understanding of the role of imaging techniques in the diagnosis and management of anterior segment disorders; be able to present select anterior segment cases and the complications associated with these disorders; and be able to discuss the medical and surgical management of these select disorders.

Intermediate

CEC OPS 1; IJCAHPO-A 1

SA-6-B-WS Elizabethan D Advanced Stereo Fundus Imaging Workshop

Pamela Vargo, CRA - Coordinator

Prerequisite: This workshop is NOT for beginners. Attendees must have a minimum of one year experience in fundus photography and understand basic camera operation. Attendees are STRONGLY encouraged to attend the corresponding lecture, SA-5-A, Advanced Fundus Imaging: Strategies for Clinical and Research Imaging.

This advanced workshop will provide hands-on experience of fundus imaging of the seven modified fields (7M) or the four wide-angle fields (4W) with assistance in troubleshooting, field definition and stereoscopic imaging will be addressed. Various fundus cameras will be available for attendees to have hands-on practice under the supervision of experienced instructors. Participants of this workshop should be prepared to have one eye pharmacologically dilated and must sign a consent form. Attendees will take turns imaging each other for practice. At the conclusion of this workshop, each attendee will have had the opportunity to practice what they are struggling with the most; field definition, focus, stereo or all of it!

At the time of printing, the following vendors have committed to participate in this workshop: Topcon Healthcare, Ophthalmic Labs, iCare, and Zeiss. The OPS is not responsible for any last minute cancellations.

CEC OPS 1; IJCAHPO-A 1

SA-6-C-WS California East Posterior Segment Tumor Imaging Workshop

Olivia Rainey, OCT-C, COA - Coordinator

This workshop will help the attendee understand how to perform imaging for posterior segment tumors. This course will elaborate on principle features of widefield and ultra-widefield imaging and help you to improve imaging quality when imaging in the far periphery of the eye. It will discuss various imaging modalities such as fundus color photography, fundus autofluorescence, and fluorescein/indocyanine green angiography and will help attendees understand how to recognize and image posterior segment tumors with each modality. At the conclusion of this workshop, the attendee should have an improved understanding of how each imaging modality aids the physician with diagnosis, monitoring, and deciding treatment options. The attendee should understand how to operate imaging systems used for posterior segment imaging and be able to identify and correct artifacts that may occur with far periphery imaging. Students should be prepared to have one eye pharmacologically dilated.

At the time of printing, the following vendors have committed to participate in this workshop: Optos, Zeiss, Heidelberg Engineering, Topcon and iCare Eidon 60.

The OPS is not responsible for any last minute cancellations.

CEC OPS 1; IJCAHPO-A 1

SA-7-A Georgian Rm Imaging Modalities in Geographic Atrophy

Deepika Malik, MD

Imaging geographic atrophy is incredibly important in monitoring both progression of disease and assessing visual function in GA patients. There are many different appearances of the lesions and ways to look at them and this course will cover them all from the GA pre-lesion (the area just outside a GA lesion where complement over-activation is taking place causing the next wave of destruction) to iRORA and cRORA. GA lesions have different appearances on different modalities, all of which help us to make decisions about disease progression. In this course we will be discussing color fundus photography, near infrared imaging, fundus autofluorescence, microperimetry, and OCT appearances. The imaging in geographic atrophy also helps with research endpoints and is used to monitor the effects of novel treatments. At the end of this course, students will have the ability to identify a GA and the surrounding pre-lesion, be able to identify iRORA and cRORA on color fundus photography, near infrared imaging, FAF, and OCT and identify treatment effects anatomically, in imaging, and with microperimetry.

CEC OPS 1; IJCAHPO-A 1

SA-7-B-WS Elizabethan D Beginner ERG Workshop

Elizabeth Affel, OCT-C, FOPS - Coordinator

This workshop will guide the attendee through the entire set-up of an ERG and will give them hands-on practice with their new skills. At the conclusion of this workshop, attendees will be able to demonstrate the correct order of steps to successfully acquire an ERG, understand proper electrode placement, and understand dark adaptation times. Attendees should come prepared to practice techniques on each other. Contact lens wearers are asked to bring a contact lens case and solution. At the time of printing, the following vendors have committed to participate in this workshop: Diagnosys, The OPS is not responsible for any last minute cancellations.

CEC OPS 1; IJCAHPO-A 1

SA-7-C-WS California East Advanced Ultra-Widefield Imaging Workshop

James Soque, CRA, OCT-C, COA, FOPS - Coordinator

Prerequisite: Minimum 1-year UWF Photography experience.

This Advance Workshop is for those having 1 or more years of use with Ultra-Widefield Imaging Cameras which should include the Optos UWF systems, the Zeiss Clarus system, the Heidelberg UWF camera with the Widefield Module, and the iCare Eidon 60 with the UWF lens. Students should be prepared to have one eye
pharmacologically dilated at least 50%. Attendees will learn the importance of peripheral steering capabilities in the case of NVE in Diabetes, and RVO’s as well as in cases of VR diseases such as tears and detachments. Proper placement of face and eye position as well as how to deal with difficulties such as facial anomalies, eye lash shadows and artifacts from the devices hood and barrier placement will be addressed. At the conclusion of this workshop the attendee will be able to capture better peripheral images, instruct their patient more effectively, and have a better understanding of how to deal with many artifacts such as lid and lashes. At the time of printing, the following vendors have committed to participate in this workshop: Optos, Zeiss, iCare, and Heidelberg Engineering. The OPS is not responsible for any last minute cancellations.

Advanced  
CEC OPS 1; IJCAHPO-A 1

SUNDAY, NOVEMBER 5th

8:00 am - 9:00 am

SU-1-A Elizabethan B
Identification of Subclinical Choroidal Neovascularization as Determined by Optical Coherence Tomography Angiography
Karl Csaky, MD
The lecture will provide an overview of OCT-A providing both the advantages and limitations of the technology. The main discussion points will be providing clinical examples of both the OCT features and subsequent OCT-A images that detail subclinical CNV. In addition to case examples an overview of pertinent literature of this topic will be reviewed. At the completion of the course the students should understand the basics of OCT-Angiography; be able to identify features on OCT that might predict subclinical CNV; and appreciate the importance of subclinical CNV.
Advanced  
CEC OPS 1; IJCAHPO-A 1

SU-1-B Elizabethan C
Application of Descriptive Interpretation of Fluorescein Angiography
Paula F. Morris, CRA, FOPS; Olivia Rainey, OCT-C, COA
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 and in some practices FA and ICG procedures are on the rise. 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 hyperfluorescence, and identify abnormal patterns of fluorescence.

Advanced  
CEC OPS 1; IJCAHPO-A 1

SU-1-C-WS Elizabethan D
Advanced Neonatal and Pediatric Fundus Photography Workshop
Candice White, CRA, OCT-C, COA - Coordinator
Prerequisite: An advanced understanding of fundus photography is required. Attendees are STRONGLY encouraged to register for the lecture (SA-4-A) “Coming to Terms with Terms: Understanding how Neonatal and Pediatric Fundus Imaging differs from Adult Fundus Imaging”.
This advanced workshop is designed to help students improve techniques for imaging neonates and pediatric patients. This workshop is designed to improve current fundus photography techniques to support wide angle fundus imaging in neonatal and pediatric eyes. Model eyes will be used to practice contact fundus imaging. Students will practice with a variety of contact fundus cameras. Instructors will provide practical instruction concentrating on proper lens contact, appropriate coupling gel usage, techniques for angling and lighting, and documenting pathology through recommend imaging protocols. At the conclusion of this workshop, the attendee will be able to perform contact fundus photography and address techniques for image capture in less than ideal conditions.
At the time of printing, the following vendors have committed to participate in this workshop: NeoLight, LLC ICON and RetCam Envision. The OPS is not responsible for any last minute cancellations.
Advanced  
CEC OPS 1; IJCAHPO-A 1

9:10 am - 10:10 am

SU-2-A Elizabethan B
What’s New- Annular Array and Interesting Pattern Recognition
Yale Fisher, MD
Annular Array Probes are now available for some Contact B-Scan devices: This course will review the development and use of these variable focus devices for clinical examination.
The Objectives will be:
1. History of Development (Brief)
2. Clinical Usefulness
3. Real Time Video Segments of Clinical Cases with Annular Array and Standard Probes for “Posterior and Anterior Ultrahigh Frequency B-Scan (UBM)”
Intermediate  
CEC OPS 1; IJCAHPO-A 1
At the conclusion of this course, the participant will be able to calculate the point value for each ocular imaging procedure performed; determine the number of daily available points for individual imaging staff members; and use the Point System to identify imaging problem spots on the upcoming clinic schedule.

**CEC OPS 1; IJCAHPO-A 1**

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**SU-3-B Elizabethan C**  
**Common Neonatal and Pediatric Retinal Diseases: A Review of Fundus Images and the Importance of Documentation**  
Candice White, CRA, OCT-C, COA

This lecture will discuss common retinal diseases seen in neonatal and pediatric patients such as Retinopathy of Prematurity (ROP), Retinoblastoma (RB), and Abusive Head Trauma (AHT). The pathogenesis of these diseases, signs and symptoms, imaging findings, and common treatments will also be covered. After attending this lecture attendees should be able to understand and recognize different neonatal and pediatric retinal diseases and describe the importance of photo-documentation as it relates to each disease process.

**CEC OPS 1; IJCAHPO-A 1**

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**SU-4-A Elizabethan B**  
**Imaging in Age Related Macular Degeneration**  
Emmanouil Mavrikakis, MD, PhD, FASRS

This course will provide in depth instruction in the latest modalities in imaging, applicable to patients with age related macular degeneration, including fundus autofluorescence, fluorescein angiography, indocyanine green angiography and optical coherence tomography. As imaging capabilities have evolved over time, our ability to recognize different features of ARMD have increased. Multimodal imaging reveals different aspects of ARMD.
and helps to paint a complete picture of the pathology at hand. Upon completion of this course, participants will be able to recognize staining and leakage due to CNVM, recognize the aspects of ARMD that each imaging modality reveals, and recognize CNVM, drusen, and GA lesions in multiple imaging modalities.

Intermediate
CEC OPS 1; IJCAHPO-A 1

SU-4-B WSL Elizabethan C
Ocular Ultrasonography: Orbit, Glaucoma, and Uveitis
Jeffrey Hernandez, CDOS, COA
The course will cover concepts to understanding and performing ophthalmic ultrasound for orbital pathology, glucoma, and ocular inflammatory disease. Topics include B-scan ultrasound, standardized diagnostic A-scan, and ultrasound biomicroscopy methodology, indications and techniques. Case studies will be utilized to apply the above skills in the recognition and identification of common disease processes and disorders of the globe with descriptive interpretation of ultrasound findings. By the end of the course, attendees should understand basic knowledge in the ultrasound evaluation of orbital pathology, glaucoma and uveitis including: optic disc drusen, peripapillary hyper-reflective ovoid mass structures, orbital lesions, optic nerve disease, episcleritis, anterior and posterior scleritis, vitritis, endophthalmitis, various forms of glaucoma as well as glaucoma plate and tube shunt evaluation. This course does not include introductory ultrasound principles. This course is for intermediate-level application. Prior working knowledge of ocular anatomy and basic ophthalmic ultrasound principles is advantageous.

Objectives:
1. Understand echographic ocular anatomy
2. Apply a 3-D thinking mindset when locating pathology in the eye
3. Understand applications of B-scan/diagnostic A-scan in glaucoma, uveitis, and orbital disease
4. Understand applications of ultrasound biomicroscopy in glaucoma, uveitis, and orbital disease
5. Recognize intracocular and orbital pathology as seen on ultrasound
6. Recognize surgical correlation to pre and post echographic evaluations in glaucoma
7. Accurately describe and interpret ultrasound findings in reports and medical chart

Intermediate
CEC OPS 1; IJCAHPO-A 1

SU-4-C-WS Elizabethan D
Beginner UBM Workshop
Elizabeth Affel, OCT-C, FOPS - Coordinator
This UBM workshop will allow attendees hands on experience performing scans with instruction on how to accurately label transverse and longitudinal scans in relation to probe orientation. Common pathologies will be presented and attendees will be able to identify abnormal scans and use descriptive terminology for them. At the conclusion of this workshop, attendees will understand the difference between B-scan and UBM, be able to identify anterior segment anatomy in a normal eye, and know the advantages and disadvantages of using Clear Scan Covers versus immersion cups. Attendees should come prepared to practice techniques on each other. Contact lens wearers are asked to bring a contact lens case and solution. At the time of printing, the following vendors have committed to participate in this workshop: Sonomed Escalon and Lumibird Medical. The OPS is not responsible for any last minute cancellations.

CEC OPS 1; IJCAHPO-A 1

12:40 pm - 1:40 pm

SU-5-A Elizabethan B
Advanced Ultra-Wide Field Imaging Lecture - Optos California Specific
James Soque, CRA, OCT-C, FOPS
The Vitreoretinal Specialist must have as many indicators as possible to accurately diagnose pathology to confirm a diagnosis especially in the peripheral retina. The Ultra-Wide Field Option Optos California Camera from Optos NA has achieved so many methods in which detection of pathology can be properly made. In addition to 200 degree of field image capturing, this course will emphasize the importance of the image specialist to understand the necessity of UWF steering in the periphery, the importance of Fluorescein Angiography in diabetics and vein occlusion patients, the importance of capturing the behavior of the anatomical vitreous for the PVD, and [AF] Autofluorescence of the RPE migration for Dry ARMD. Advance methods of studying the Vitreoretinal interface, and the steering capability necessary to capture peripheral retinal detachments and tears will also be discussed. Surgical examples will be presented. Other UWF examples will be referenced. Also, how to instruct the patient properly in order to further maximize the image capturing, and how to teach the pre surgical patient the importance of the position of the head and eye before and after a surgical procedure for maximum outcome. These will include scanning for diseases such as Vitreous Anomalies, Diabetes, Vein Occlusions, Retinal Detachments and Tears. In addition, the new guidelines from the OPS BOC which include Ultra Wide Field submissions for the CRA Portfolio Requirement will be reviewed.
At the conclusion of this course the attendee will be able to determine if advanced FA, or Color Steering imaging is necessary for the physician to reach an accurate diagnosis, will be able to assist patients with proper head positioning for capturing the best images prior to and after surgical procedures...

Advanced
CEC OPS 1; IJCAHPO-A 1

SU-5-B Elizabethan C
Too Sweet: Diagnostic Findings in Diabetic Retinopathy
Mike Mackens, CRA,
Diabetic Retinopathy is a vast and complex topic. This course is designed to break down the disease and its clinical findings into a digestible format so ophthalmic photographers of all skill levels can learn and take away
information. I will cover what diabetes looks like on Retinal Imaging. How to best image the different findings of Diabetic Retinopathy, as well as how the stages of the disease are categorized. At the end of the course, the student should be able to explain what diabetes looks like on retinal imaging, understand how to get the best image for the different findings of Diabetic Retinopathy, and list the stages of how the disease is categorized.

**CEC OPS 1; IJCAHPO-A 1**

**SU-5-C-WS Elizabethan D**
**Ocular Ultrasonography: Orbit, Glaucoma, and Uveitis Workshop**
*Jeffrey Hernandez, CDOS, COA - Coordinator*

Prerequisite: This advanced workshop is a continuation of the lecture Ocular Ultrasonography: Orbit, Glaucoma, and Uveitis, and does not include introductory ultrasound principles. Attending the lecture is strongly encouraged. Prior working knowledge of ocular anatomy and basic ophthalmic ultrasound principles is advantageous.

This workshop will cover concepts to understanding and performing ophthalmic ultrasound for orbital pathology, glaucoma, and ocular inflammatory disease. Topics include B-scan ultrasound, standardized diagnostic A-scan, and ultrasound biomicroscopy methodology, indications and techniques. Attendees should be prepared to practice techniques on each other. At the conclusion of the workshop, attendees should have knowledge in the ultrasound evaluation of orbital pathology, glaucoma and uveitis including: optic disc drusen, peripapillary hyper-reflective ovoid mass structures, orbital lesions, optic nerve disease, episcleritis, anterior and posterior scleritis, vitritis, endophthalmitis, various forms of glaucoma as well as glaucoma plate and tube shunt evaluation. Attendees will understand echographic ocular anatomy, and apply a 3-D thinking mindset when locating pathology in the eye. At the time of printing, the following vendors have committed to participate in this workshop: Sonomed Escalon and Lumibird Medical. The OPS is not responsible for any last minute cancellations.

Advanced

**CEC OPS 1; IJCAHPO-A 1**

1:50 pm - 2:50 pm

**SU-6-A Elizabethan B**
**Advances in OCT and OCTA Technology**
*David Huang, MD, PhD*

OCT is one of the most fundamental imaging technologies available today and has changed the landscape of ophthalmology for both the patient and the physician. This presentation will encompass the new abilities of widefield OCT that can help to identify lesions further and further into the periphery. As OCT has evolved, the resolution has also evolved. The newest OCT machines are able to resolve more and more minute pathologies which may help us solve some mysteries surrounding macropathology that we have previously observed. One of the fastest advancing fields in OCT has been OCT-A. It has been particularly helpful with all vascular disease and many papers are being written about this important technology every year. In this course we will explore the most common applications of OCT-A. At the end of the course students will have knowledge of the cutting edge in widefield OCT technology, be able to understand the emerging applications of ultrahigh-resolution OCT, and have knowledge of the major OCTA applications.

**CEC OPS 1; IJCAHPO-A 1**

**SU-6-B Elizabethan C**
**Inherited Retinal Diseases and the Value of Imaging and Genetic Testing**
*Thomas B. Connor Jr., MD*

This course will introduce students to the most common Inherited Retinal Diseases (IRD) including retinitis pigmentosa, Stargards, and pattern dystrophies. There are a multitude of genes associated with these ocular abnormalities that can also present in many different ways which makes diagnostic approach more complex. Genetic testing has been extremely valuable in differentiating IRD’s as well as imaging. Imaging in IRDs helps to establish diagnosis and monitor progression of disease and can help guide treatment options. At the end of this course students will be able to identify and describe common IRDs, describe the value of genetic testing in IRDs, and describe the importance of imaging and diagnosis in IRDs.

**CEC OPS 1; IJCAHPO-A 1**

**SU-6-C-WS Elizabethan D**
**Introduction to Slit Lamp Workshop**
*Michael Bono, CRA, FOPS - Coordinator*

Prerequisite: Attending the lecture FR-6-A Slit Lamp Photography is strongly encouraged.

This workshop is a duplication of SA-2-C-WS, Intro to SL Workshop at 9:10 am on Saturday, November 4th. This workshop is designed to help students develop the techniques and lighting skills needed for photographing the anterior segment with the photo slit lamp using model eyes and other participants as subjects. Students will work with a variety of slit lamp instruments under the guidance of experienced photo slit lamp photographers. Students will have the opportunity to use direct illumination, indirect illumination, proximal illumination, retroillumination, and scleral scatter. At the conclusion of this workshop, the attendee should understand how to develop an imaging plan, be familiar with how to manipulate the slit lamp controls to achieve different lighting schemes, and understand which lighting techniques are best for different anterior segment pathology. At the time of printing, the following vendors have committed to participate in this workshop: Topcon Healthcare, Haag-Streit, and Zeiss. The OPS is not responsible for any last minute cancellations.

**CEC OPS 1; IJCAHPO-A 1**
3:00 pm – 4:00 pm

SU-7-A  Elizabethan B
Age-Related Macular Degeneration Gene Therapy Trials
Luisa Mendonca, MD

Drug development in Age-Related Macular Degeneration (AMD) is an evolving field as physicians still experience challenges in treating this population – while for exudative AMD the need for multiple anti-VEGF injections may be a burden to patients and healthcare providers, in dry-AMD a recently approved therapy for the first time offers a treatment option for what has been a huge unmet need in Ophthalmology. Gene therapy may offer the possibility of a single administration treatment for both disease types. This lecture will provide an overview of gene therapy trials in the field, touching on indication, routes of administration, relevant endpoints, and the role of imaging in identifying and following enrolled subjects, focusing on reported findings of ongoing and completed trials. At the end of this lecture, participants should be able to apply this knowledge in obtaining high-quality images for gene therapy trials, focusing on the goals and applications of retinal imaging in such trials.

Intermediate

CEC OPS 1; IJCAHPO-A 1

4:00 pm – 5:30 pm

OPS Membership Business Meeting
Open to All OPS Members

Elizabethan B

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

The OPS Annual Educational Program, nor any course or workshop offered during this Program, is reviewed, endorsed, or approved by The OPS Board of Certification for its specific content or efficacy in test preparation. These educational offerings are for information purposes and are only suggested as a study tool. Informational summaries, methods or techniques, and practical tips and tricks are only recommendations by the author, and in no way guarantee passing the CRA or OCT-C exams. The author has made reasonable efforts to provide current and accurate information to the students. The author, nor OPS, will be held liable for any unintentional errors or omissions that may be found. These educational materials, even in their entirety, should not be considered a complete and all-encompassing representation of test content for the CRA or OCT-C exam.

Participation by OPS Board of Certification members, in the OPS Annual Educational Program, is for the sole purpose of creating a more robust educational experience. This participation does not make any inference of validation or set any precedent that may be referenced during any Certification activities.

The Certified Retinal Angiographer (CRA) and Optical Coherence Tomographer-Certified (OCT-C) credential programs are administered and maintained by the OPS Board of Certification in accordance with the BOC Standing Rules and in compliance with the Institute for Credentialing Excellence’s (ICE) National Commission for Certifying Agencies (NCCA) standards.
Lecture Faculty

Elizabeth Affel, MS, OCT-C, FOPS
Annesley Eye Brain Center
Philadelphia, PA

Denise Barsness, CRA, COMT, CDOS, ROUB, FOPS
Retired-Sutter Health Dept Ophthalmology
San Francisco, CA

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

Michael Bono, CRA, BFA
University of Colorado Eye Center
Aurora, CO

Maru Bretana, MD, CDOS
Retina Consultants of Texas
Houston, TX

Jennifer Cao, MD
UT Southwestern Medical Center
Dallas, TX

Robert Cavicchi, CRA, FOPS
Joslin Diabetes Center
Boston, MA

Holly N. Cheshier, CRA, OCT-C
Retina Consultants of Minnesota
Minneapolis, MN

Thomas B. Connor, Jr, MD
Medical College of Wisconsin
Milwaukee, WI

John Conto, OD, FAAO
Medical College of Wisconsin, Eye Institute
Milwaukee, WI

Douglas B. Critser, CRA, OCT-C
University of Iowa
Iowa City, IA

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

Denise Cunningham, CRA, OCT-C, FOPS, MS, Med
Sole Proprietor: Ocular Imaging Trainer
Bethesda, MD

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

Ronald Hall, OCT-C, CRA
Topcon Healthcare
Milton, FL

Jeffrey Hernandez, CDOS, COA
UT Southwestern Medical Center
Dallas, TX

David Huang, MD, PhD
Casey Eye Institute-OHSU
Portland, OR

Jennifer Humenny, CRA, OCT-C
Henry Ford Health
Detroit, MI

Deeba Husain, MD
Massachusetts Eye and Ear Hospital
New York, NY

Darrin Landry, CRA, OCT-C, FOPS
Bryson Taylor Inc
Saco, ME

Mike Mackens, CRA
Texas Retina Associates
Dallas, TX

Deepika Malik, MD
New York, NY

Emmanouil Mavrikakis, MD, PhD, FASRS
Gennimatas Athens General Hospital
NHS Trust
Athens, GR

Luisa Mendonca, MD
Boston Image Reading Center
Gioania, Brazil

Gary Miller, CRA, OCT-C, FOPS
Geisinger Eye Institute
Danville, PA

Paula F. Morris, CRA, FOPS
Annesley Eye Brain Center
Salt Lake City, UT

Monica Motta
UC Davis Vet Med
Davis, CA

Ryan Nelson, OCT-C, CRA
Topcon
Oakland, NJ

Jaclyn Pisano
Retina Consultants of Hawaii
Kailua, HI

Olivia Rainey, OCT-C, COA
Retina Specialists of Michigan
Grand Rapids, MI

Akbar Shakoor, MD
John Moran Eye Center, Univ of Utah
Salt Lake City, UT

Christye P. Sisson, MS, CRA
Rochester Institute of Technology
Rochester, NY

James Soque, CRA, OCT-C, COA, FOPS
Island Retina
Shirley, NY

Robert Swan, MD
SUNY Upstate Medical University
Syracuse, NY

Pamela Vargo, CRA
University of Wisconsin Reading Center
Madison, WI

Kathleen Warren, CRA
Duke Eye Center
Durham, NC

Candice White, CRA, OCT-C, COA
NeoLight, LLC
Ozark, MO
Workshop Faculty

Elizabeth Affel, MS, OCT-C, FOPS
Annesley Eye Brain Center
Philadelphia, PA

Michael Bono, CRA
University of Colorado Eye Center
Aurora, CO

Maru Bretana, MD, CDOS
Retinal Consultants of Houston
Houston, TX

Holly N. Cheshier, CRA, OCT-C
Retina Consultants of Minnesota
Minneapolis, MN

Amy Goldstein, CRA, OCT-C
Hercules, CA

Ronald Hall, OCT-C, CRA
Topcon Healthcare
Milton, FL

Jeffrey Hernandez, CDOS, COA
UT Southwestern Medical Center
Dallas, TX

Betty Hom, CRA
UCSF
San Francisco, CA

Jennifer Humenny, CRA, OCT-C
Henry Ford Health
Detroit, MI

Vera Kan, COMT, ROUB, CRA
UCSF
San Francisco, CA

Gary Miller, CRA, OCT-C, FOPS
Geisinger Eye Institute
Danville, PA

Tong Moua
San Francisco, CA

Seema Nasraty, COT, ABOC
Kaiser Permanente
San Francisco, CA

Olivia Rainey, OMA, OCT-C
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Grand Rapids, MI

Christye P. Sisson, MS, CRA
Rochester Institute of Technology
Rochester, NY

James Soque, COA, CRA, OCT-C, FOPS
Island Retina
Shirley, NY

Cory Sutphin, CRA, OCT-C
Retina Associates of Sarasota
Venice, FL

Pamela Vargo, CRA
Fundus Photograph Reading Center
Madison, WI

Kathleen Warren, CPT, OCT-C
Duke University Eye Center
Durham, NC

Candice White, CRA, OCT-C, COA
NeoLight, LLC
Ozark, MO
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. Continuing Education Credit will be granted to all registrants who 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 granted for The OPS 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 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 four 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. Sign the course check-in sheet available at the beginning of each course.
4. Correctly complete the online course evaluation survey at the close of the program.
5. Print your list of CECs earned from your profile on the OPS website (Optional)

UPCOMING OPS EVENTS

EDUCATIONAL OPPORTUNITIES
Webinars on Demand available on the OPS website 24/7.

OPS/MiSEPS Regional Education Program
“Focus on Quality Care”
Saturday, August 26, 2023
At the MSU Kellogg Conference Center, East Lansing, MI

CERTIFICATION OPPORTUNITIES
The CRA and OCT-C Program Guides are available for download on the OPS web site - www.opsweb.org/page/CRAOCTrequirements
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

<table>
<thead>
<tr>
<th>Year</th>
<th>Recipient 1</th>
<th>Year</th>
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<tbody>
<tr>
<td>1990</td>
<td>Randall E. Verdick</td>
<td>2006</td>
<td>Ethan Priel, FOPS</td>
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<td>1991</td>
<td>George Weir, CRA</td>
<td>2007</td>
<td>Dennis Orlock, CRA, FOPS</td>
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<td>1992</td>
<td>Jeff Jacobs, CRA</td>
<td>2008</td>
<td>Robert G. Shutt, CRA, OCT-C</td>
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<td>Jim Gilman, CRA</td>
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<td>Ditte J. Hess, CRA, FOPS</td>
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<td>1994</td>
<td>Randall E. Verdick</td>
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<td>Leslie D. MacKeen, CRA</td>
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<td>1995</td>
<td>Lawrence M. Merin, FOPS</td>
<td>2011</td>
<td>Alexis Smith, CRA, OCT-C</td>
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<td>1996</td>
<td>Linda M. Kelley, CRA</td>
<td>2012</td>
<td>Carl Glittenberg, MD</td>
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<td>1997</td>
<td>Bobbie A. Turner, AA, CRA, COT</td>
<td>2013</td>
<td>Michael P. Kelly, FOPS</td>
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<td>1999</td>
<td>Csaba L. Martonyi, CRA, FOPS</td>
<td>2015</td>
<td>Mark Croswell, CRA, OCT-C, FOPS</td>
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<td>2000</td>
<td>Ethan Priel</td>
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<td>Darrin Landry, CRA, OCT-C</td>
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<td>2001</td>
<td>Dennis Orlock, CRA</td>
<td>2017</td>
<td>Darrin Landry, CRA, OCT-C</td>
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<td>2002</td>
<td>Kevin Langton, CRA</td>
<td>2018</td>
<td>Douglas B. Critser, CRA, OCT-C</td>
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<td>2003</td>
<td>Lawrence Merin, RBP, FOPS</td>
<td>2019</td>
<td>James D. Strong, CRA, OCT-C, FOPS</td>
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<td>2004</td>
<td>Dennis Orlock, CRA</td>
<td>2020</td>
<td>Johnathan Hawkins, CRA, OCT-C</td>
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<td>2005</td>
<td>Timothy J. Bennett, CRA, FOPS</td>
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The Chris Barry Award

(Journal of Ophthalmic Photography Article of the Year)

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 spend their time and energy submitting 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 expertise. 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

2020, 2021 No Award Given
2019 Tim Steffens - External Photography
2018 Olivia Rainey - Ultra-Widefield Fundus Autofluorescence Imaging
2017 No Award Given
2016 Darrin Landry—Optical Coherence Tomography Angiography
2015 Melanie Fortin - Management of New or Recurrent Choroidal Neovascularisation in Telescope Implanted Eyes
2014 Peter Van Etten, MD - Zero Dilation Ophthalmoscopy
2013 Angela Chappell - Tales of the Unexpected: Incidental Findings in Ophthalmic Imaging
2012 Ditte Hess - ROP—A Visual Experience
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, 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 2023 Scientific Exhibit competition and the opportunity to be the sixteenth 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
- 2013 Mark Clark, CRA
- 2014 Gary Miller, CRA, OCT-C
- 2015 Ryan Terribilini, OCT-C
- 2016 John Golding
- 2017 Leslie MacKeen, CRA
- 2018 Kit Morehead, CRA
- 2019 Katelyn Olney, CRA, OCT-C
- 2020 Timothy Costello, CRA
- 2021 Angela Chappell, CRA, OCT-C
- 2022 Tim Steffens, CRA, OCT-C, FOPS

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 2023 JJJ Scholarship Award will provide up to FOUR scholarship awards consisting of a $750.00 cash award for any educational courses approved by the OPS. In addition, the scholarship winner will receive complimentary General registration and up to ten courses, if the award is used at the OPS Annual Education Program, or the general registration fee for the OPS Regional Education Program. An application is available at: https://www.opsweb.org/page/JusticeScholarship

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.
The Outstanding Contributions to Ophthalmic Photography Award, the OPS' highest honor, is awarded to select individuals who have promoted or advanced ophthalmic photography and imaging through their craft, writing, or innovations.

Recipients of the Outstanding Contributions to Ophthalmic Photography Award

1974 David Donaldson, MD*
1976 Matthew D. Davis, MD
1978 John L. Johnson
1979 Don Wong*
1979 J. Donald Gass, MD
1980 E. Lee Allen*
1980 Johnny Justice, Jr.
1982 Earl A. Choromokos*
1983 Terrance L. Tomer
1984 Csaba L. Martonyi
1988 Paul R. Montague*
1991 Marlene Fishman
1996 Joseph Warnicki
1997 Paul Rehkopf
2003 Patrick J. Saine
2011 J. Lawton Smith, MD
2012 Mark Maio
2013 Timothy J. Bennett
2013 Ditte J. Hess
2014 Chris Barry
2019 Paula F. Morris
2019 Denice Barsness
**APPLICATION FOR MEMBERSHIP**

<table>
<thead>
<tr>
<th>Name</th>
<th>(Last, First, Middle Initial)</th>
<th>(Certification or Licensure)</th>
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**Mailing Address for OPS Correspondence**

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**Credit Card Information**

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<th>Signature</th>
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| Credit Cards Accepted: Visa, Mastercard, Discover, Amex | |

**Office Telephone (include country and city codes if outside the USA)**

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<th>Phone</th>
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**Fax**

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**Home Telephone (Optional)**

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**Email**

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**Annual Membership Fee - $99.00**

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.