



WASHINGTON
ACADEMY OF

EYE PHYSICIANS
& SURGEONS

Ophthalmic Medical Personnel Program

March 29, 2019

**Meydenbauer Convention Center
Bellevue, Washington**

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Welcome to the 2019 WAEPS Ophthalmic Medical Personnel Program!

We are pleased to present this exciting opportunity for you to expand your knowledge, grow your clinical skill set and advance your career at one of the largest American Academy of Ophthalmology award-winning continuing education programs in the country!

GET Connected, Inspired and Prepared

- Join **over 500** of your fellow colleagues from across the Pacific Northwest and learn about the latest advances and trends in ophthalmology through **thirty unique lectures** and **eighteen clinical workshops** from our highly skilled and dedicated faculty of ophthalmologists and clinical application specialists.
- Grow your knowledge and stay ahead of the curve as these leaders in ophthalmology share vital new clinical information, the latest research and study results, and the best clinical practices to help you reenergize and be ready for the clinical challenges you face.

MEET the experts

- We are excited to welcome back Matthew Parker, PhD, LSSMBB, COMT, CST, OSC, President-Elect



of ATPO and founder and chief executive of PACT MATTERS, LLC from Durham, NC to present **four exclusive courses** to further develop and refine your patient evaluations and diagnostic testing outcomes:

- Leader of the PACT: Lean Approach to Improving Clinical Efficiency
 - Mastering Refinement: The Super-Tech Way!
 - Standardized Eye Exam: Before You Dilate!
 - Neurological Examination: Don't Sweat It!
- Dr. Parker has over 30 years' experience in ophthalmology and is part of the faculty for ATPO's popular "Train the Trainer" program. Don't miss this chance to learn from a nationally recognized instructor and leading ophthalmic trainer!

ENJOY New Courses

- We are excited to announce the addition of the all new "**Anatomy and Dissection of the Eye**" workshop! Prepare to glove up, grab your instruments and get hands-on inside the structure we work with every day!
- Plus check out our many other new courses this year, including:
 - Corneal Conundrums: Interesting Clinical Cases
 - Chronic Dry Eye Disease: 80's Dance Party Style
 - Presbyopic Correction in Cataract Surgery: Achieving the 20/Happy Patient
 - And many more!

RELAX and Rejuvenate

- Relax in-between courses and enjoy a spacious layout, efficient and courteous staff, energizing continental breakfast, delicious buffet lunch, relaxing evening hor d'oeuvres, and numerous other amenities provided for your comfort and ease while you attend the program at the **Meydenbauer Convention Center** in Bellevue!

Classes fill up quickly, so be sure to register early to secure your preferred courses! And don't forget to take advantage of the **early bird discount** that is available until **March 1, 2019!**

We hope that you will not miss out on this premier event in eye care education for the Pacific Northwest! We look forward to seeing you there with your friends and colleagues on **March 29th!**



Anndrea Grant, COMT, OSC
WAEPS Ophthalmic Medical
Personnel Program Chair
Northwest Eye Clinic

About This Meeting

Registration:

Please use the online registration form on the WAEPS website, <http://www.waeps.org/annual-meeting> which requires each participant to provide contact information and to choose his or her classes and workshops. **Please use your own mailing address and email address.** When you come to the end of the registration process, either pay for the program with a credit card or select 'invoice me.' If you choose "invoice me," you'll receive an emailed invoice. You can then submit the invoice to your supervisor or practice accounting office to be paid. WAEPS asks that invoices be paid within 30 days of registration and prior to the start of the WAEPS Annual Meeting.

	On or Before March 2	After March 2
Member Practice	\$185	\$210
Non-Member Practice	\$260	\$285
Student/military tech	\$55	\$65

Accreditation

IJCAHPO, AOC, and OPS Credits have been applied for.

Target audience

Nurses, Ophthalmic Medical Personnel (All levels of certified and non-certified assistants, opticians, contact lens personnel), and health care students.

Workshop prerequisites

The prerequisite for each workshop is to already possess a basic knowledge of that particular skill. The workshops are designed to help ophthalmic medical personnel further hone the skill and, through hands-on instruction, demonstrate the best clinical applications of that skill.

What's included

Your registration includes a full day of course instruction, e-syllabus, educational credits, continental breakfast, coffee breaks, delicious hot buffet luncheon, access to exhibits, and a hosted reception.

Attendance verification and credit:

Step 1: Submit attendance cards as you attend classes & workshops

JCAHPO now requires that we document each participant's attendance at each session throughout the day. Prior to the meeting you will receive by mail your nametag, personalized schedule and a set of attendance cards (one for each of your classes).

Be sure to bring these with you on the day of the meeting!

As you enter each classroom, you will insert your attendance card for that hour's class into the box next to the classroom door. These cards are collected ten minutes after the class begins. Failure to deposit your attendance card into the correct box by that time means we will not be able to verify your attendance and you will not get credit for that hour. So please help us with your full cooperation in this system!

Step 2: Complete evaluation

Following the meeting you should go back to the e-syllabus and click on the link to complete your online program evaluation.

Step 3: Receive your certificate

Within 30 days after the program, the WAEPS office will send you (via email) a certificate showing the courses you attended. Please feel free to contact us in mid-May if you have not yet received your certificate and we'll resend it.

Cancellations

Cancellation requests must be submitted in writing. There is a \$50.00 fee for cancellation before March 1, 2019. **There are no refunds for cancellations after March 1, 2019.**

Watch for your e-syllabus link

There will be no printed handouts for this meeting. **One week prior to the meeting, you will receive an email with a link for access to your e-syllabus.** We encourage you to use it to access important information before you arrive, including printable/downloadable speaker handouts, an updated schedule, and driving and parking directions.

About This Meeting *(continued)*

Lunch

A delicious buffet lunch is included in your registration. If you choose to leave the building during the lunch break, please be sure to return on time for your next class.

Reception

Immediately following the conclusion of the tech program, please join us for a reception.

Reciprocal society members

WAEPS has reciprocal arrangements with ophthalmology societies in Oregon, Idaho, Montana, Alaska, and British Columbia. Employees of physicians who are members of their respective state and provincial societies may register at the discounted member rate. Please contact our office for details if you would like to take advantage of this opportunity: waeps@waeps.org

Hotel accommodations

A discounted room block is available at the nearby **Seattle Marriott Bellevue**, 200 110th Avenue N., Bellevue, WA. The rate is \$189 per night and discounted overnight parking has been negotiated. Visit the annual meeting page of our website <http://www.waeps.org/annual-meeting> for the link to book your room. Space is limited. Rooms can be booked until March 6, 2019 or until all rooms in the block are filled.

Accessibility

WAEPS encourages participation by all individuals. If you require accommodations, please notify Kim Conn at the WAEPS office at 206-956-3652 at least two weeks prior to the conference. Advance notification is essential in order for us to serve you better. Note that our conference venue is fully accessible and ADA compliant.

Other attendee needs

- Moms needing access to our “pump room” during breaks should contact the staff at the tech program information desk when they arrive on site.
- Special dietary needs? Please indicate these on your registration form or contact us via phone or email and we’ll do our best to accommodate.

Questions regarding registration?

Please contact Curt in the WAEPS office at 206-956-3646 or email waeps@waeps.org

2019 Venue

Meydenbauer Center

11100 NE 6th St, Bellevue, WA 98004

Continental breakfast will be held in the exhibit hall in Center Hall A on the entrance level of the building and the tech lunch will be held in the ballroom next to it, Center Hall B. The tech program lectures and most of the workshops will be held in classrooms on the 4th floor of the facility. A few of the workshops will be in a meeting room in the administrative suite on the 3rd floor.

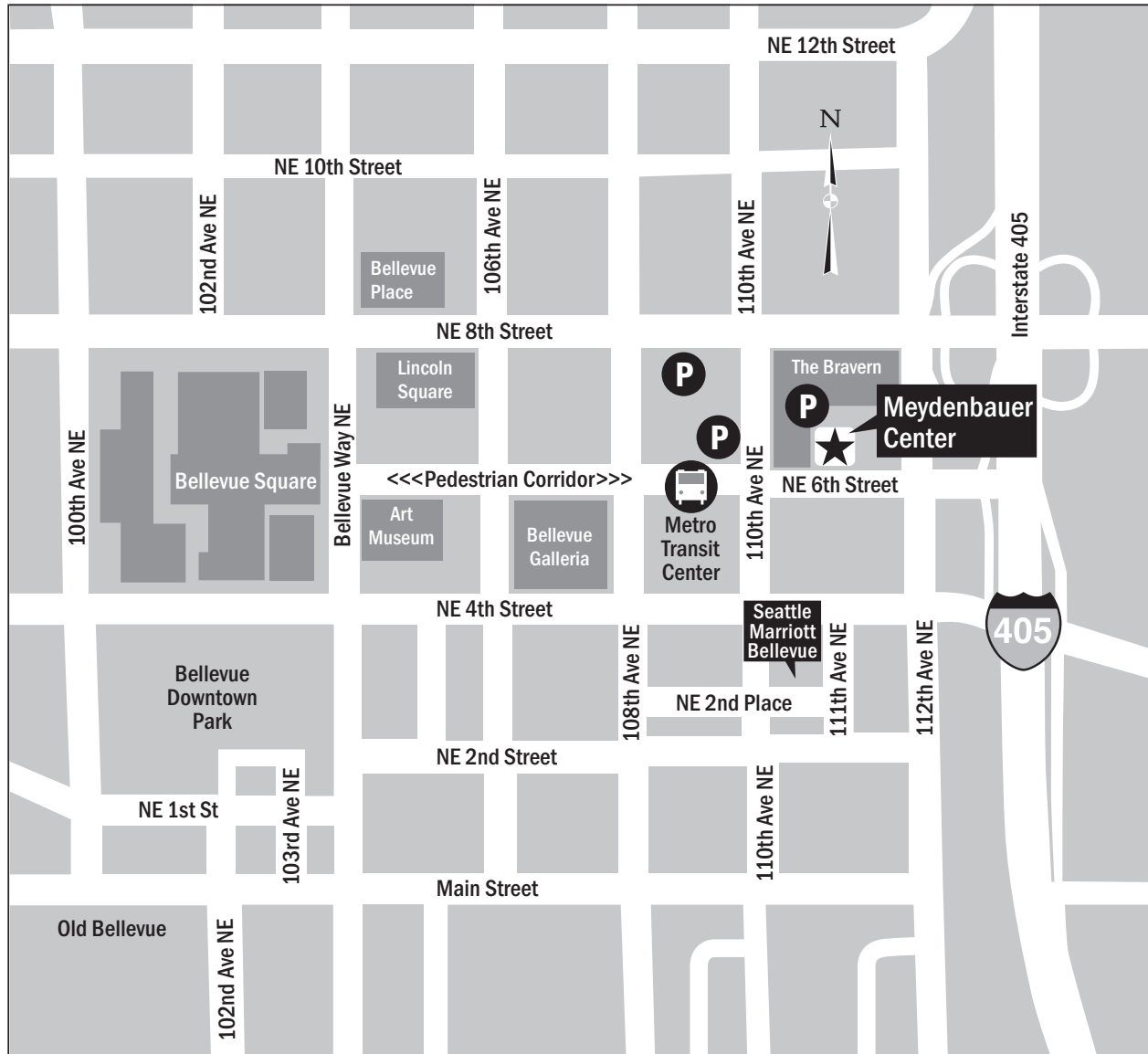
Parking

Underground parking is available at Meydenbauer Center. Overflow parking arrangements are still being determined so check the e-syllabus and the WAEPS website for updates.

Transportation

Our conference venue is less than a block away from the Bellevue Transit Center where many bus routes stop. For more information, visit the Metro Transit and Sound Transit websites to plan your trip by public transportation.

About this Meeting *(continued)*



WAEPS expresses sincere appreciation to all our corporate sponsors, vendors and equipment companies for their ongoing support and generous loan of instruments to be used in the workshops. Special thanks to:

- Northwest Eye Clinic, Inc
- Heidelberg Engineering
- Carl Zeiss Meditec
- PACT Matters, LLC
- Oculus
- Haag-Streit
- Eye Associates Northwest, P.C.
- Walman Instrument Group

2019 LECTURE SCHEDULE

LECTURE SPEAKER

	LECTURE	SPEAKER	LECTURE	SPEAKER	LECTURE	SPEAKER
8:30 – 9:30	1 To Treat or Not to Treat: Evaluation of the Glaucoma Suspect ▸ Ernesto Golez, MD	2 Pharmacology Update 2019 ▸ Martha Leen, MD and Paul Kremer, MD	3 Corneal Conundrums: Interesting Clinical Cases ▸ Elizabeth Grace, MD	4 Mastering Refinement: The Super-Tech Way! ▸ Matthew Parker, PhD, LSSMBB, COMT, CST, OSC	5 Presbyopic Correction in Cataract Surgery: Achieving the 20/ Happy Patient ▸ Kristi Bailey, MD	
9:40 – 10:40	6 Medico-legal Issues of the Electronic Medical Record ▸ Dan Briceland, MD and Michelle Pineda	7 Working up Neuro – What to Watch For! ▸ Jean Kassem, MD	8 Intraocular Lenses: History, Calculation and Selection ▸ Mike Brush, MD	9 Fundamentals of Eyelid Reconstruction ▸ Nora Siegal, MD	10 Chronic Dry Eye Disease: 80’s Dance Party Style ▸ Laura Periman, MD	
10:50 – 11:50	11 A Day in the Oculoplastics Clinic ▸ Zachary Joos, MD	12 Pupil Pro: The Ultimate Guide to the Pupil Examination ▸ Maxine Harvey, MD	13 Trauma 101: From Triage to Treatment ▸ Christiaan Kroesen, MD	14 OCT: Anatomy of a Scan ▸ Austin Ellyson, DO	15 Leader of the PACT : Lean Approach to Improving Clinical Efficiency ▸ Matthew Parker, PhD, LSSMBB, COMT, CST, OSC	
11:50 – 1:00	LUNCH					
1:10 – 2:10	16 The Wild World of Uveitis ▸ Thellea K. Leveque, MD, MPH	17 Soft Tissue Rejuvenation with Injectables ▸ Christopher Chambers, MD	18 Functional Vision Loss ▸ Steve Hamilton, MD	19 Under Pressure: Identifying and Managing Glaucoma ▸ Matthew Cardinale, DO	20 Standardized Eye Exam: Before You Dilate! ▸ Matthew Parker, PhD, LSSMBB, COMT, CST, OSC	
2:20 – 3:20	21 Diagnosis and Treatment of Ocular Surface Tumors ▸ Andrew Stacey, MD	22 Mystery OCT: Advanced Retinal OCT Diagnosis ▸ Yicheng X. Chen, MD	23 A Practical Approach to Ocular Trauma ▸ Yewlin Chee, MD	24 Neurological Examination: Don’t Sweat It! ▸ Matthew Parker, PhD, LSSMBB, COMT, CST, OSC	25 Evaluation of Diplopia ▸ Courtney Francis, MD	
3:30 – 4:30	26 Sudden Unilateral Vision Loss ▸ Brian Roth, MD	27 Understanding ICG and Fluorescein Angiography ▸ Matthew Snider, MD	28 Clinical Optics: Optical Illusions ▸ Chris Kuntz, MD	29 Diabetes and the Eye ▸ James Bailey, MD	30 A Clinician’s Guide to Prosthetic Eyes ▸ Todd Cranmore, BCO, BADO	

WAEPS 2019 Lecture Descriptions

01 **To Treat or Not to Treat: Evaluation of the Glaucoma Suspect** | Ernesto Golez, MD

This case-based course will review the assessment of patients with clinical findings suspicious for glaucoma. Diagnostic tests and glaucoma risk factors will be discussed.

Objectives:

1. Explain the clinical findings that lead to a glaucoma suspect diagnosis.
2. Name the diagnostic tests and glaucoma risk factors used to evaluate a glaucoma suspect patient.

02 **Pharmacology Update 2019** | Martha Leen, MD and Paul Kremer, MD

This course will provide an update on medications that are available for the treatment of both glaucoma and anterior segment diseases. Pharmacology indications and side effects will be discussed.

Objectives:

1. Review the medications that are available for glaucoma and anterior segment diseases.
2. Describe their indications and potential side effects.

03 **Corneal Conundrums: Interesting Clinical Cases** | Elizabeth Grace, MD

This course will present cases of interesting corneal disease processes and will discuss how to formulate an appropriate differential diagnosis for corneal diseases. Attendees will learn how to identify key clinical signs and symptoms of corneal disease processes.

Objectives:

1. Describe the various corneal disease processes found during clinical practice.
2. Describe the key clinical signs and symptoms of corneal disease processes.

04 **Mastering Refinement: The Super-Tech Way!** | Matthew Parker, PhD, LSSMBB, COMT, CST, OSC

This is an intermediate course in both retinoscopy and refractometry. Nationally, refraction is the number one skill required by most employers. This course allows the technician to take an advanced posture in diagnostic and general fundamental performance of generating a glasses prescription.

Objectives:

1. Describe basic principles of optics.
2. Identify how to turn basic steps into advanced strategic techniques in retinoscopy and refractometry.
3. Describe guidelines for prescribing glasses.

05 **Presbyopic Correction in Cataract Surgery: Achieving the 20/Happy Patient** | Kristi Bailey, MD

The use of presbyopia-correcting IOLs has increased significantly in the last several years with a steady improvement in IOL technology, from refractive to diffractive, from bifocal to trifocal and to enhanced depth of field (EDOF). This course will discuss the optical benefits and limitations of the currently available presbyopia-correcting IOL options. The anticipated quality and range of vision of each IOL will be reviewed. Reasons for unexpected results with these IOLs will be discussed, including the cornea, patient occupation, and angle kappa. Optimal methods of IOL calculation will be reviewed with best-case visual outcomes.

Objectives:

1. Name the presbyopia-correcting IOL options currently available and describe the benefits and limitations of each.
2. Describe the optimal methods of IOL calculation for the best visual outcome.

06 **Medico-legal Issues of the Electronic Medical Record** | Michelle Pineda and Dan Briceland, MD

Over the last few years, OMIC has seen an increase in claims resulting from user and system error(s) of the electronic medical record (EMR). Lack of documentation has long been known as a problem area in medical malpractice and it is even more evident in the era of the EMR.

Objectives:

1. Identify electronic healthcare record challenges and provide examples of where documentation can go wrong causing patient harm.
2. Recognize what malpractice attorneys look for in good medical record documentation.
3. Take away solutions on how to better utilize your EMR system and safeguard your practice from liability

07 **Working up Neuro – What to Watch For!** | Jean Kassem, MD

This course will provide an in-depth summary of the proper workup and the history taking tips and tricks for neuro-ophthalmology patients. Discussion will include an overview and presentation of various common neuro-ophthalmic patients. After this course participants should feel confident working up patients with unexplained vision loss, pupil disorders, diplopia and more.

Objectives:

1. Describe the history taking and exam techniques used for the workup of a neuro-ophthalmic patient.
2. Identify the various presentations of a neuro-ophthalmic patients.

WAEPS 2019 Lecture Descriptions (continued)

08 **Intraocular Lenses: History, Calculation and Selection** | Mike Brush, MD

Why does my doctor want all those preoperative measurements and what guides their decision on selecting an intraocular lens for a patient? This course will provide a thorough review of the history of cataract surgery and intraocular lens development. It will discuss the major advances that have been achieved over the last 30 years and the options that will be available in the future.

Objectives:

1. Describe the importance of preoperative measurement.
2. Understand how preoperative measurements are used for intraocular lens selection.
3. Name the intraocular lens options that will be available in the future.

09 **Fundamentals of Eyelid Reconstruction** | Nora Siegal, MD

The goals of eyelid reconstruction are to restore both the anatomy and dynamic function of the eyelids. Maximal cosmesis can be achieved even in the setting of post-traumatic or post-surgical changes with a detailed understanding of the anatomy.

Objectives:

1. Understand how eyelid reconstruction restores both eyelid anatomy and function.
2. Describe how cosmesis can be achieved with post-traumatic or post-surgical eyelids.

10 **Chronic Dry Eye Disease: 80's Dance Party Style** | Laura Periman, MD

This course will explore the fascinating subject of Chronic Dry Eye Disease. Dry eye concepts will be presented through fun analogies and relevant, thematic musical highlights. Attendees will learn Dry Eye Disease processes and how to communicate with patients. Education and compliance issues related to the disease will also be discussed.

Objectives:

1. Understand Chronic Dry Eye Disease and its management.
2. Describe the education and compliance issues related to the disease.

11 **A Day in the Oculoplastics Clinic** | Zachary Joos, MD

Oculoplastics is a unique specialty of ophthalmology that involves reconstructive surgery of the eyelids, orbits, lacrimal system, and cosmetic surgery of the face. Through this presentation the audience will gain knowledge about the evaluation of common oculoplastic clinic patients and their management.

Objectives:

1. Describe the various presentation of oculoplastic patients.

2. Name the surgical techniques used in the management of oculoplastic patients.

12 **Pupil Pro: The Ultimate Guide to the Pupil Examination** | Maxine Harvey, MD

This course will provide a thorough overview of proper pupillary assessment techniques and how to identify both normal pupils and abnormalities. It will explain the anatomy and physiology of the afferent and efferent neural pathways as they apply to pupillary function and the associated signs of pupillary abnormalities. *This course is an excellent review for those preparing to take the COA and COT examinations.

Objectives:

1. Explain proper pupillary assessment techniques.
2. Understand afferent and efferent neural pathways.
3. Identify normal and abnormal pupillary findings.

13 **Trauma 101: From Triage to Treatment** | Christiaan Kroesen, MD

A patient presents to the clinic with a chemical burn to the eye. Do you know what to do next? This course will describe the classifications of ocular trauma that commonly present in the ophthalmology clinic. It will discuss proper evaluation and triage methods and provide an overview of the treatment options available to manage the different types of ocular trauma.

Objectives:

1. Name the classifications of ocular trauma.
2. Describe proper evaluation, triage methods and treatment options.

14 **OCT: Anatomy of a Scan** | Austin Ellyson, DO

Are you ready to perform one of the most ordered diagnostic tests in ophthalmology? This course will provide a systematic approach to understanding what we see in retinal OCT images. Armed with this knowledge, we can adapt our scanning strategy when necessary, and communicate important or unexpected findings to the ordering physician. Discussion will include: descriptive features such as contour, thickness, reflectivity and shadowing. Identification of retinal landmarks, common pathologic features and analysis artifacts will be presented.

Objectives:

1. Understand the descriptive features of a retinal OCT image.
2. Name the retinal landmarks, common pathologic features and analysis artifacts of an OCT image.

WAEPS 2019 Lecture Descriptions (continued)

15 Leader of the PACT: Lean Approach to Improving Clinical Efficiency | Matthew Parker, PhD, LSSMBB, COMT, CST, OSC

Clinical efficiency is comprised of many organizational and individual standards. The efficient technician knows how to streamline and apply multiple skills to enhance the patient experience. This course introduces process mapping, competency evaluation(s), and organizational preparedness for demanding clinics. This course also recommends ways to improve professional and clinical relations where ophthalmic patient care remains the principle focus.

Objectives:

1. Identify the phases of lean six sigma process management.
2. Identify and relate how the three components of lean six sigma is applied in ophthalmology.
3. Identify clinical challenges that may be perceived as downtime.

16 The Wild World of Uveitis | Thellea K. Leveque, MD, MPH

Ocular inflammation takes many forms and can have devastating visual consequences if undiagnosed or undertreated. This course will briefly describe the method for classifying and diagnosing uveitis and then embark on a tour of the wildest and most interesting cases.

Objectives:

1. Define uveitis and describe the various forms.
2. Describe the methods used to classify and diagnose uveitis.

17 Soft Tissue Rejuvenation with Injectables | Christopher Chambers, MD

This course will cover cosmetic and facial contouring techniques with chemodenervation and soft tissue fillers.

Objectives:

1. Explain the cosmetic and facial contouring techniques currently being used in oculoplastics.
2. Name the chemodenervation and soft tissue fillers currently available.

18 Functional Vision Loss | Steve Hamilton, MD

This course will review the various types of functional vision disorders, with special emphasis on testing methods, recognition of organic disease and management of patients with functional visual disorders. Several case studies will be used to illustrate the proper work up of a patient with functional vision loss.

Objectives:

1. Understand the various types of functional vision disorders.
2. Name the testing methods used to identify functional vision disorders.

3. Describe the management of patients with functional vision disorders.

19 Under Pressure: Identifying and Managing Glaucoma | Matthew Cardinale, DO

This course will provide a comprehensive overview of the various types of glaucoma. It will discuss the etiology of the different forms of glaucoma including signs, symptoms, diagnostic tests and current and emerging treatment options.

*This course is an excellent review for those preparing to take the COA and COT examinations.

Objectives:

1. Describe the various types of glaucoma.
2. Name the diagnostic tests and treatment options available for glaucoma.

20 Standardized Eye Exam: Before You Dilate! | Matthew Parker, PhD, LSSMBB, COMT, CST, OSC

Technician examinations are becoming more and more standardized within ophthalmic healthcare practices. This course introduces general examination competencies to enhance clinical efficiencies coupled with strategic and important awareness where dilation may mask important diagnostic information. Embracing a standardized technician examination allow important clinical findings to go not observed.

Objectives:

1. Identify pharmacology agents used to dilate the pupils
2. Identify the clinical findings where dilation is contraindicated.
3. Identify the standardized elements of a full technician examination to include vision assessment, retinoscopy and refinement, motility testing, intraocular pressure, and slit-lamp biomicroscopy.
4. Identify various strategies to improve individual efficiency when gathering significant clinical information to enhance the patient experience.

21 Diagnosis and Treatment of Ocular Surface Tumors | Andrew Stacey, MD

This course will help attendees learn to identify and understand how conjunctival and ocular surface cancers are diagnosed using clinical exam and imaging modalities. Discussion will include a review of surgical videos and surgical goals in the treatment of conjunctival tumors.

Objectives:

1. Understand the identification and diagnosis of conjunctival and ocular surface tumors.
2. Describe the surgical treatment techniques in the management of ocular surface tumors.

WAEPS 2019 Lecture Descriptions (continued)

22 **Mystery OCT: Advanced Retinal OCT Diagnosis** | Yicheng X. Chen, MD

In this course OCT images from a diverse set of “unknown” retinal conditions will be presented without any additional information. The course instructor will then systematically review the anatomy and pathology shown and lead attendees in the development of differential diagnoses based exclusively on the OCT images. Multimodal imaging and clinical history will then be provided and the confirmed diagnosis will be discussed. At the conclusion of this course, the attendee will be able to appreciate the wealth of information that is available from the careful and methodical analysis of OCT data, and to understand the systematic interpretation of OCT images to improve diagnostic acumen.

Objectives:

1. Understand the ocular anatomy and pathology imaged with the OCT.
2. Describe the systematic interpretation of OCT images.

23 **A Practical Approach to Ocular Trauma** | Yewlin Chee, MD

This course will present a practical, step-by-step approach to the patient with ocular trauma. Using multiple clinical examples, the work-up of the ocular trauma patient will be discussed and as well as the ways to identify true ophthalmic emergencies.

Objectives:

1. Formulate a strategy to triage and evaluate patients with ocular trauma.
2. Be able to identify true ocular emergencies and describe their immediate management.

24 **Neurological Examination: Don't Sweat It!** |

Matthew Parker, PhD, LSSMBB, COMT, CST, OSC

This course discusses the valuable relationships between associated cranial nerves that presents itself during the technicians' examination. This course provides a step by step competency review of discovering an afferent pupillary defect, performing of confrontational, Goldmann, and automated field-testing and a standardized comprehensive ocular motility assessment. These skills coupled with clinical observations are the foundation of this course – improving the patient experience.

Objectives:

1. Identify the steps in pupillary assessment, observations, and reporting.
2. Identify the mechanics of the ocular motility examination and the cranial nerves associated.
3. Identify various visual field testing and recording methods.

4. Identify how the ocular adnexa is affected by unexpected pupillary and motility changes and potentially associated visual field loss.

25 **Evaluation of Diplopia** | Courtney Francis, MD

This course will provide a thorough review of the proper workup of a patient who presents with double vision. Participants will learn the vital questions to ask when obtaining the history and gain an understanding of possible underlying causes. The techniques used to evaluate and diagnose double vision and the management of the disease will be presented.

Objectives:

1. Understand the proper workup of a patient with double vision.
2. Name the diagnostic techniques and management of the disease.

26 **Sudden Unilateral Vision Loss** | Brian Roth, MD

This course will describe the common causes of sudden unilateral vision loss and outline the parts of the history and examination that the technician should focus on that will provide the most useful information and aid in making an early diagnosis.

Objectives:

1. List the most common causes of sudden unilateral vision loss.
2. Describe the most important parts of the history and examination for this complaint.

27 **Understanding ICG and Fluorescein Angiography** | Matthew Snider, MD

This course will cover traditional fluorescein angiography and indocyanine green angiography including definitions, examination techniques and examples of hyper- and hypo-fluorescence. Indications, contraindications and potential side effects of the dye injection will be covered. Examples of retinal pathology imaged with fluorescein will also be presented.

*This course is an excellent review for those preparing to take the COT and COMT examinations.

Objectives:

1. Describe the proper testing techniques of fluorescein angiography and indocyanine green angiography.
2. Identify hyper- and hypo-fluorescence.
3. Describe the retinal pathology imaged with fluorescein.

WAEPS 2019 Lecture Descriptions *(continued)*

28 **Clinical Optics: Optical Illusions** | Chris Kuntz, MD

We call them optical illusions, but what is real and what is an illusion? This course will use optical illusions as tools to gain insight into the subjective world of vision. Prepare for an entertaining, fun and interactive mind-bending educational experience!

Objectives:

1. Understand basic clinical optics.
2. Describe optical illusions and how they pertain to clinical optics.

29 **Diabetes and the Eye** | James Bailey, MD

How much do you know about one of the leading causes of blindness in the United States? This course will present a comprehensive overview of diabetic retinopathy and describe the various stages of the disease. Pathology, clinical presentation, diagnosis and treatment options including anti-VEGF and laser therapies will be discussed.

Objectives:

1. Identify and describe the stages of diabetic retinopathy.
2. Discuss treatment options currently available.

30 **A Clinician's Guide to Prosthetic Eyes** | Todd Cranmore, BCO, BADO

This presentation will focus on common pathways to eye loss, who can wear a prosthetic eye, how prosthetic eyes are made and how to care for patients with a prosthetic eye. We will follow a patient through the whole process and look at a few individual case studies. There will be lots of photos and hands-on examples. In the end, one will have a better understanding of the process and restoration their prosthetic patients undergo, as well as how to better care for these patients and their prosthetics.

Objectives:

1. Describe the process of fitting a patient for a prosthetic eye.
2. Understand how to best care for these patients and their prosthetics.

2019 WORKSHOP SCHEDULE

WORKSHOP INSTRUCTOR

8:30 – 9:30	31 Pentacam: Clinical Applications for Cataract Surgery ▶ Chris O’Flaherty – <i>Oculus</i>	32 Cirrus HD-OCT: Best Practices ▶ Connie McKeehen, CCOA – <i>Carl Zeiss</i>	33 Clinical Applications of the Spectralis OCT ▶ Amanda Bye and Rich Cornwell, CRA – <i>Heidelberg</i>
9:40 – 10:40	34 IOL Master 700: Best Practices ▶ Connie McKeehen, CCOA – <i>Carl Zeiss</i>	35 Basic Ocular Motility ▶ Claire Callaghan, CO, COMT	36 Slit Lamp Examination Techniques ▶ Parisa Taravati, MD
10:50 – 11:50	37 Clinical Applications of LENSTAR Optical Biometry: Intermediate ▶ Cara Fletcher and Robert Bowling, BSc, COA – <i>Haag-Streit</i>	38 Anatomy and Dissection of the Eye ▶ Matthew Snider, MD	39 Manual Keratometry ▶ Stephen Carow, COMT, OCS
11:50 – 1:00	LUNCH		
1:10 – 2:10	40 Anatomy and Dissection of the Eye ▶ Matthew Snider, MD	41 Manual Lensometry ▶ Stephen Carow, COMT, OCS	42 Clinical Applications of LENSTAR Optical Biometry: Advanced ▶ Cara Fletcher – <i>Haag-Streit</i>
2:20 – 3:20	43 Cirrus HD-OCT: Best Practices ▶ Connie McKeehen, CCOA – <i>Carl Zeiss</i>	44 Slit Lamp Examination Techniques ▶ Parisa Taravati, MD	45 Intermediate/Advanced Ocular Motility ▶ Claire Callaghan, CO, COMT
3:30 – 4:30	46 Pentacam: Clinical Applications for Cornea and Refractive Surgery ▶ Chris O’Flaherty – <i>Oculus</i>	47 IOL Master 700: Best Practices ▶ Connie McKeehen, CCOA – <i>Carl Zeiss</i>	48 Clinical Applications of the Spectralis OCT ▶ Amanda Bye and Rich Cornwell, CRA – <i>Heidelberg</i>

WAEPS 2019 Workshop Descriptions

- 31 Pentacam: Clinical Applications for Cataract Surgery** | Chris O'Flaherty – *Oculus*
This course will cover the basic principles of Scheimpflug imaging technology, image acquisition, optical biometry, and clinical applications for cataract surgery and IOL calculation. The class will include both hands-on instruction and lecture. Upon completion of this workshop, participants should be able to understand the basic principles of Scheimpflug imaging technology and optical biometry, acquire images with the Pentacam, evaluate image and measurement quality and interpret maps and measurements pertinent to cataract surgery and IOL calculations.
- 32, 43 Cirrus HD-OCT: Best Practices** | Connie McKeehen, CCOA – *Carl Zeiss*
This course will discuss clinical applications of Cirrus OCT, review proper operation of the instrument and how to read more advanced analysis options. The course will focus on basic and advanced operator techniques and how to overcome difficult obstacles. It will also review the latest advancements in Cirrus OCT capabilities.
- 33, 48 Clinical Applications of the Spectralis OCT** | Amanda Bye and Rich Cornwell, CRA – *Heidelberg*
This course will discuss clinical applications of the Spectralis OCT, review proper operation of the instrument and how to read more advanced analysis options. The class will include both hands-on instruction and explain and demonstrate the scan modes, analysis tools and techniques needed to produce high quality scans.
- 34, 47 IOL Master 700: Best Practices** | Connie McKeehen, CCOA – *Carl Zeiss*
This course will review basic swept source biometry technology. It will include review of operator technique, how to ensure reliable measurements and how to troubleshoot common obstacles. An IOLMaster 700 instrument will be available for hands-on practice. IOL power calculation and formula capabilities will also be discussed.
- 35 Basic Ocular Motility** | Claire Callaghan, CO, COMT
This interactive, hands-on workshop will provide an introduction to and discuss the assessment methods for the basic evaluation of ocular motility and binocularity.
- 36, 44 Slit Lamp Examination Techniques** | Parisa Taravati, MD
This lecture and hands-on workshop will demonstrate techniques such as sclerotic scatter, direct and indirect focal illumination, specular reflection and narrow- vs. wide-beam illumination. Participants will have the opportunity to practice these techniques as they perform slit lamp examinations on each other. Upon completion of this course, participants should be able to identify the techniques used in a slit lamp examination and demonstrate the correct use of each technique.
- 37 Clinical Applications of LENSTAR Optical Biometry: Intermediate** | Cara Fletcher and Robert Bowling, BSc, COA – *Haag-Streit*
This intermediate course will demonstrate and teach the clinical applications of the LENSTAR optical biometer. This hands-on workshop will cover the following principles: proper operator techniques; the data analysis process and standard deviations; IOL calculations and formulae; and the optional Toric Surgical Planner and T-cone.
- 38, 40 Anatomy and Dissection of the Eye** | Matthew Snider, MD
This hands-on workshop will begin with a brief discussion of the anatomy and physiology of the eye including the cornea, iris, ciliary body, zonular apparatus, crystalline lens, vitreous body, retina, choroid and sclera. Following the discussion, participants will perform a guided step-by-step dissection of a pig's eyeball.
- 39 Manual Keratometry** | Stephen Carow, COMT, OCS
This hands-on session will provide practical instruction and experience in the use of the manual keratometer. Tips will be given to help the technician as well as step-by-step tools in the skill process.
- 41 Manual Lensometry** | Stephen Carow, COMT, OCS
This hands-on session will provide practical instruction and experience in the use of the manual lensometer. Tips will be given to help the technician as well as step-by-step tools in the skill process.

WAEPS 2019 Workshop Descriptions *(continued)*

42 Clinical Applications of LENSTAR Optical Biometry: Advanced | **Cara Fletcher** – *Haag-Streit*

This advanced course will demonstrate and teach the clinical applications of the LENSTAR optical biometer. This hands-on workshop will cover the following principles: the data analysis process and standard deviations; IOL calculations and formulae; the optional Toric Surgical Planner; IOL constant optimization; IOL entry and surgeon template building.

45 Intermediate/Advanced Ocular Motility | **Claire Callaghan, CO, COMT**

This interactive workshop will review and discuss the assessment methods for intermediate to advanced evaluation of ocular motility and binocularity.

46 Clinical Applications of the Pentacam for Cornea and Refractive Surgery | **Chris O’Flaherty** – *Oculus*

This course will cover the basic principles of Scheimpflug imaging technology, best practices for operation of the Pentacam system, and applications for corneal evaluation and refractive surgery. The class will include both a lecture and hands-on instruction.

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