



WASHINGTON
ACADEMY OF

EYE PHYSICIANS
& SURGEONS

Ophthalmic Medical Personnel Program

March 20, 2015

**The Conference Center at 8th and Pike
800 Pike Street
Seattle, Washington**

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Introduction

Welcome to the 2015 WAEPS Ophthalmic Medical Personnel Program! This premier event will provide a level of educational programming and training opportunities unparalleled in the Pacific Northwest. The meeting will take place at the Conference Center in Seattle.

Each year we are pleased to provide new courses that will help attendees acquire and maintain certification, provide hands-on training to learn or hone clinical skills and cover the latest technological advances in ophthalmology, such as:

- Saving and Enhancing Vision 2015: The Future IS Coming Fast
- Advances in Cataract Surgery: Counseling the Cataract Patient
- Femtosecond Laser for Complicated Cases
- Optics: The Science Behind Sight
- MIGS: Minimally Invasive Glaucoma Surgery
- LENSTAR Optical Biometry: Best Practices
- Soft Contact Lens Fitting
- Non-Mydriatic Fundus Photography
- Evaluating the Cornea: From Ocular Surface through Posterior Float

In addition, the program presents an impressive list of **thirty** unique courses and **sixteen** different hands-on workshops from a group of highly skilled and dedicated physicians and experts who will be sharing essential clinical information and the latest advancements in ophthalmology to increase your level of training and enhance your professional performance.

Whether you have been in the eye care field for years or just getting started, whether you are certified already or preparing for your exam, this program has something for everyone.

We look forward to seeing all of you in Seattle for this exclusive continuing education opportunity!

Program Co-Chairs,

Anndrea Grant, COT

Northwest Eye Clinic, Inc

Chris Morchin, COT

Eye Associates Northwest, PC

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. 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 which you can either pay or turn in to your supervisor or practice accounting office to be paid. WAEPS expects that invoices will be paid within 30 days.

Accreditation

JCAHPO, 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. However, the lecture, "Slit Lamp Examination Techniques" *will be a prerequisite* for the slit lamp workshop.

What's Included

Your registration includes a full day of course instruction, eSyllabus, educational credits, delicious hot buffet luncheon, access to exhibits, and a hosted reception.

Confirming Your Attendance

JCAHPO now requires that we document each participant's attendance at each session throughout the day. Please watch for instructions on how to make sure you get credit for attending. Those will be mailed out with the name badge and schedule packets a few weeks prior to the meeting.

Within one month following the program, the WAEPS office issues a certificate of attendance to each attendee via email. Please contact our office if you do not receive your certificate. Please note that it is each participant's responsibility to keep records of attendance for future use in recertification.

Cancellation Policy

WAEPS must receive written notification of your cancellation. Submit to the WAEPS office, by email: debra@wsma.org A \$50 processing fee will be deducted. No refunds will be issued after February 13, 2015.

President's Reception

Immediately following the physician program, please join us for the President's Reception. This hosted event takes place with the Exhibitors on the Third Floor.

Confirmation Information

Our 2015 Annual Meeting is environmentally responsible, not only for the earth, but for the WAEPS' budget. There will be no printed syllabus. **Instead, 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 speaker handouts, a current schedule, and driving and parking directions.



Lodging

The Hyatt at Olive 8

1635-8th Avenue • Seattle, WA 98101

www.olive8.hyatt.com

We have a room block reserved at **The Hyatt at Olive 8**, directly around the corner from the Conference Center.

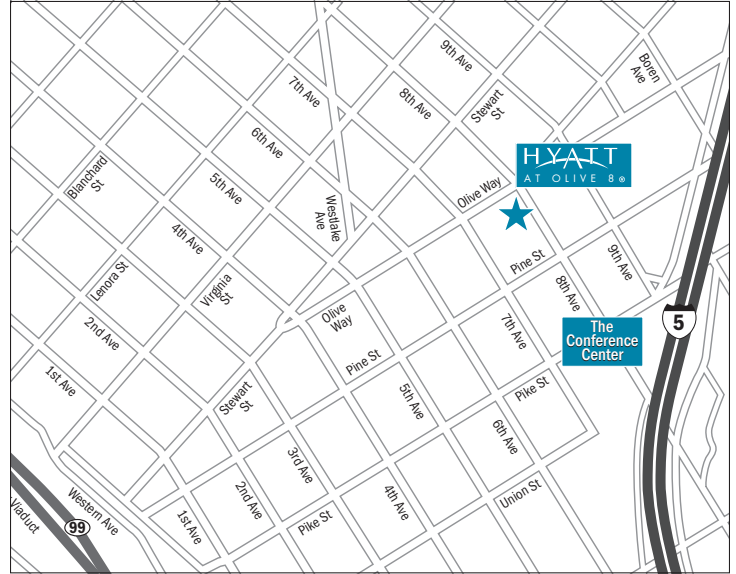
To make your reservations at **The Hyatt at Olive 8**, please utilize the WAEPS dedicated website <https://resweb.passkey.com/go/WAEP15> – or call 888-421-1442 and ask for the **WAEPS 2015 Annual Meeting Special Guest Room Rate: \$169** – King Bed, single or double occupancy.

Questions: Call Debra Alderman at 206-956-3650, or send an email to debra@wsma.org

Cancellations: Cancellation requests must be submitted in writing. There is a \$50.00 fee for cancellation before February 19, 2015. **There are no refunds for cancellation after February 19, 2015.**

Driving and Parking Directions

Venue: The Conference Center
800 Pike Street • Seattle, WA 98121



From I-5 Southbound to Convention Center Garage (Primary Entrance on 8th Avenue)

- I-5 Southbound
- Stewart Street Exit (#166)
- Left on Boren Avenue
- Right on Seneca Street
- Right on 8th Avenue
- Garage entrance is on your right

From I-5 Northbound and I-90 Westbound to Convention Center Garage

- (Primary Entrance on 8th Avenue)
- I-5 Northbound
 - Madison Street Exit (#164A)
 - Right on Madison Street
 - Left on 8th Avenue
 - Garage entrance is on your right

Thank you to the following companies and practices for generously lending equipment for the hands-on workshops at this year's program.

- Accutome
- Carl Zeiss Meditec
- Cooper Vision
- Eye Associates Northwest, PC
- Haag-Streit
- Heidelberg Engineering
- Nidek
- Northwest Eye Clinic
- Oculus
- Ophthalmic Instruments & Consulting
- Walman Instrument Group

2015 PROGRAM SCHEDULE

COURSE SPEAKER

8:30 – 9:30	1 Surgical Management of Corneal Diseases Michael Wu, MD	2 Pharmacology Update 2015 Martha Leen, MD and Paul Kremer, MD	3 Ocular Trauma and Surgical Reconstruction Eissa Hanna, MD	4 Uveitic Glaucoma Deanne Nakamoto, MD	5 Slit Lamp Examination Techniques Parisa Taravati, MD
9:40 – 10:40	6 Management of Diabetic Retinopathy Janet Chieh, MD	7 HIPAA 2015: Are You Prepared? Jeff Sobotka, MBA, CPHIT	8 Saving and Enhancing Vision 2015: The Future IS Coming Fast Thomas Gillette, MD	9 Retinal OCT: An Interactive Discussion of Basic and Advanced Interpretation Scott Warden, MD	10 Advances in Cataract Surgery: Counseling the Cataract Patient Kristi Bailey, MD
10:50 – 11:50	11 Ultra Wide Field Angiography Charles Birnbach, MD	12 Corneal Infectious Disease Devin Harrison, MD	13 Getting Ready for ICD-10 Patricia Kennedy, COMT, COE	14 MIGS: Minimally Invasive Glaucoma Surgery Agnes Huang, MD	15 Contact Lens Case Studies: New vs. Old Ginny Mercer, LDO, HFOAA
11:50 – 1:00	LUNCH				
1:10 – 2:10	16 Meaningful Use and the Electronic Health Record Susan Reehill, CPC, CPMA, CEMC	17 Ocular Inflammation: The Many Faces of Uveitis Thellea K. Leveque, MD, MPH	18 Surgical Management of Glaucoma Annisa Jamil, MD	19 Age-related Macular Degeneration: An Introductory Course Kelly Bui, MD	20 Custom Prosthetic Eyes Todd Cranmore, BCO/BADO
2:20 – 3:20	21 Enhancing Quality of Care through Improved Patient Engagement Joe Ritchie	22 Optics: The Science Behind Sight B. L. Blackorby, MD	23 The Challenging Patient with Photophobia: What Causes It and What Can Be Done? Steve Hamilton, MD	24 Evaluation and Management of Eyelid Lesions: Benign and Malignant Man Kim, MD	25 Femtosecond Laser for Complicated Cases Robert Tester, MD
3:30 – 4:30	26 Arteritic (GCA) vs NAION Matthew Niemeyer, MD	27 Jeopardy! Pediatric Ophthalmology Pearls David Epley, MD	28 Refractive Surgery 2015: Pearls for the Technician Keith Dahlhauser, MD	29 Alternative Medicine and the Eye Brian Roth, MD	30 The Winning Team: What's Your Part? Leslie Hargis

Lecture Descriptions

01. Surgical Management of Corneal Diseases | Michael Wu, MD

This interactive course will provide an overview of common corneal and anterior segment diseases, including their clinical presentations, pathophysiology and treatment, using interactive, case-based presentations. Participants will learn the indications for common anterior segment surgical procedures and surgical techniques will be presented to the audience in a media format, with an emphasis on opportunities to address participants' questions.

Objectives:

1. Describe common corneal and anterior segment diseases.
2. Name the indications for common anterior segment procedures and explain the surgical techniques used.

02. Pharmacology Update 2015 | Martha Leen, MD and Paul Kremer, MD

This course will review recent medications that have become available for the treatment of both glaucoma and anterior segment diseases. Pharmacology indications and side effects will be discussed.

Objectives:

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

03. Ocular Trauma and Surgical Reconstruction | Eissa Hanna, MD

This course will review types of ocular trauma, discuss prevention and review treatment modalities to restore vision. This will include several cases of eye trauma and surgical videos demonstrating anterior segment reconstruction and complex cataract surgery.

Objectives:

1. Recognize groups at risk for ocular trauma and counsel them on prevention.
2. List the various types of ocular trauma and have a general sense of prognosis and treatment strategies.

04. Uveitic Glaucoma | Deanne Nakamoto, MD

This lecture will cover the diagnosis and treatment of glaucoma in the setting of ocular inflammation. Particular attention will be paid to the various symptoms of this condition and the patient workup.

Objectives:

1. Explain why uveitis patients are more likely to develop glaucoma.
2. Describe the workup of a uveitic glaucoma patient and list their key symptoms.
3. List the medical and surgical treatments for uveitic glaucoma.

05. Slit Lamp Examination Techniques | Parisa Taravati, MD

This course will describe and discuss the uses of sclerotic scatter, direct and indirect focal illumination, specular reflection and narrow vs wide-beam illumination in a slit lamp examination. The use of the slit lamp to visualize various pathology in the cornea will also be presented.

**This course is a pre-requisite for the Slit Lamp Examination workshop.*

Objectives:

1. Explain the various techniques used in a slit lamp examination.
2. Describe ways to visualize corneal pathology with the slit lamp.

06. Management of Diabetic Retinopathy | Janet Chieh, MD

This course will present a comprehensive overview of diabetic retinopathy and describe the 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.

07. HIPAA 2015: Are You Prepared? | Jeff Sobotka, MBA, CPHIT, CHP

This course will provide an update on HIPAA regulations for 2015 with a focus on the aspects that impact ophthalmic personnel directly, such as workstation use and security, patient privacy, security awareness, training and what constitutes a breach or incident.

Objectives:

1. Describe the HIPAA regulations that apply to the ophthalmic clinical setting.
2. Explain what constitutes a breach or incident for investigation.

08. Saving and Enhancing Vision 2015: The Future IS Coming Fast | Thomas Gillette, MD

From telescopes to Gore-Tex, plastic corneas to partial corneas, saving and enhancing vision is rapidly changing. This course will review these new technologies: endothelial keratoplasty, intraocular telescope, corneal collagen cross-linking, keratoprosthesis and suture fixated IOL's. Instruction will include video and didactic reviews.

Objectives:

1. Review new corneal technology under development and being used in practice.
2. Describe the indications, advantages and disadvantages of these technologies.

Lecture Descriptions *(continued)*

09. Retinal OCT: An Interactive Discussion of Basic and Advanced Interpretation | Scott Warden, MD

This course will be an interactive discussion of basic and advanced retinal OCT interpretation. The lecture will provide an introduction to OCT technology and a review of cross sectional retinal anatomy. Current terminology for OCT interpretation will also be reviewed. The course participants will be asked to comment on and discuss the OCT images that will be used to illustrate retinal pathology of common diseases.

Objectives:

1. Describe cross sectional retinal anatomy and current OCT terminology.
2. Identify the retinal pathology of common diseases seen on OCT images.

10. Advances in Cataract Surgery: Counseling the Cataract Patient | Kristi Bailey, MD

This course will review how recent developments and advances in cataract surgery, including new lens technologies and the use of femtosecond lasers, impact patient choices for cataract surgery. The course will also discuss the importance of managing patient expectations, considering patient lifestyles and presenting complex information in ways patients understand.

Objectives:

1. Describe the latest technology available for cataract surgery.
2. Explain ways to best manage patient expectations.

11. Ultra Wide Field Angiography | Charles Birnbach, MD

This course will provide an overview of ultra wide field angiography. An explanation of the differences between standard and wide field angiography will be given including the indications of each in clinical practice.

Objectives:

1. Explain the differences between standard and wide field angiography.
2. Describe the indications for wide field angiography.

12. Corneal Infectious Disease | Devin Harrison, MD

This course will review the common agents of corneal infectious disease, including viruses, bacteria, fungi and protozoa. Common infections caused by these agents will be described. The clinical appearance, diagnostic techniques and treatment will be reviewed for each disease entity.

Objectives:

1. List the various types of corneal infectious diseases.
2. Describe the clinical appearance of corneal infections.

13. Getting Ready for ICD-10 | Patricia Kennedy, COMT, COE

The technician will play a major role in the successful implementation of ICD-10. Via examples, this course will demonstrate how ICD-10 is structured, how it differs from ICD-9 and offer practical ways to prepare for the transition.

Objectives:

1. Explain the differences between ICD-9 and ICD-10.
2. Describe how best to prepare for the transition from ICD-9.

14. MIGS: Minimally Invasive Glaucoma Surgery | Agnes Huang, MD

This course will discuss how MIGS uses the traditional outflow system of the eye to enhance aqueous outflow and lower intraocular pressure. The course will review the various MIGS devices available, where they lie in the treatment paradigm for glaucoma and how they differ from traditional glaucoma filtering surgery.

Objectives:

1. Describe the various surgical interventions for glaucoma.
2. Describe how MIGS differs from traditional glaucoma filtering surgery.

15. Contact Lens Case Studies: New vs. Old | Ginny Mercer, LDO, HFOAA

This course will review some of the newer contact lens technology and fitting techniques currently available and their indications and contraindications with different patients. An explanation of how some of the new lenses help with dry eye, patient compliance and several other corneal issues will be discussed. The attendee will have new lens options reviewed and be given instruction on how to best utilize them in the practice for their patient.

Objectives:

1. Describe the newest contact lens technology and fitting techniques available.
2. Explain how to best utilize them in the practice.

16. Meaningful Use and the Electronic Health Record | Susan Reehill

This course will review both Stage 1 and Stage 2 of Meaningful Use and discuss their differences. A further breakdown of the incentive program measures will be presented to make them “meaningful” and help you integrate them into your day to day practice.

Objectives:

1. Explain the Meaningful Use program and the differences between Stage 1 and Stage 2.
2. Describe the program measures and how to successfully implement them in the office.

Lecture Descriptions *(continued)*

17. **Ocular Inflammation: The Many Faces of Uveitis** | Thellea K. Leveque, MD, MPH

Uveitis refers to a group of diseases involving inflammation of a variety of ocular structures. Despite its relative rarity, it is the third leading cause of preventable blindness worldwide. At the end of this lecture, technicians will be able to describe the main signs and symptoms of uveitic conditions and will have a basic understanding of important patient history and technician-relevant exam findings. We will discuss the classification of uveitis and review a selected variety of cases.

Objectives:

1. Describe uveitis and describe its main signs and symptoms.
2. Understand key history and exam findings.

18. **Surgical Management of Glaucoma** | Annisa Jamil, MD

This course will cover the purpose and rationale of glaucoma surgery. It will include descriptions of common procedures, both incisional and laser, along with a discussion of indications for each procedure.

Objectives:

1. Describe the various surgical methods currently available for treatment of glaucoma.
2. Name the indications for each procedure.

19. **Age-related Macular Degeneration: An Introductory Course for the Ophthalmic Technician** | Kelly Bui, MD

Age-related macular degeneration is a leading cause of severe vision loss in people over age 60. This course will provide an overview of the disease, highlighting the pathogenesis, risk factors, clinical manifestations and treatment options. In addition, we will cover imaging modalities and patient education.

Objectives:

1. Describe the underlying pathogenesis and risk factors for AMD.
2. Describe the signs and symptoms of AMD, both dry and wet forms.
3. Know the different types of treatment for AMD.

20. **Custom Prosthetic Eyes** | Todd Cranmore, BCO/BADO

This lecture is an introduction to custom prosthetic eyes. Descriptions of eye loss, indications for prosthetics, process of making prosthetics and care of patients with prosthetics will be presented. Special attention will be focused on information that will help one care for a patient they see in their practice who wears an artificial eye.

Objectives:

1. Describe the process of making an ocular prosthesis.
2. List the four major types of eye loss.
3. Identify the most important elements of caring for a patient with an ocular prosthesis.

21. **Enhancing Quality of Care through Improved Patient Engagement** | Joe Ritchie

This course will teach participants simple techniques for communicating more effectively with patients within an eye care practice to enhance the overall quality of care, including patient satisfaction, engagement and outcomes.

Objectives:

1. Describe how to create a positive patient experience that engages patients in their own health.
2. Name at least two techniques to more effectively communicate with patients in difficult situations.

22. **Optics: The Science Behind Sight** | Barton Blackorby, MD

This course will present concepts and information on the physical nature of light and its interaction with lenses, prisms and mirrors. Discussion will include refraction, magnification, reflection and clinical examples of each. This course is an excellent way to review your knowledge of optics in preparation for exam certification.

Objectives:

1. Describe light properties and laws of optics.
2. Discuss bending of light by lenses and optical media in the eye.
3. Describe clinical uses of lenses, prisms and mirrors.

23. **The Challenging Patient with Photophobia: What Causes It and What Can Be Done?** | Steve Hamilton, MD

This course will review the recent advances in the underlying physiology explaining photophobia in patients including common ophthalmological and neurological causes and recommended treatments.

Objectives:

1. Describe the physiology behind photophobia.
2. Understand the common causes and explain the best treatment options available.

24. **Evaluation and Management of Eyelid Lesions: Benign and Malignant** | Man Kim, MD

This course will review the presentation and management of various benign and malignant eyelid lesions. The course will discuss ways to differentiate between benign processes and malignancies.

Objectives:

1. Identify common eyelid lesions and differentiate between benign and malignant lesions.
2. Describe the treatment options currently available.

Lecture Descriptions *(continued)*

25. Femtosecond Laser for Complicated Cases | Robert Tester, MD

This course will cover basic principles in the use of the femtosecond laser in approaching complex cataract surgery cases such as white hypermature cataracts or PXF syndrome. The course will also identify surgical approaches to correct astigmatism.

Objectives:

1. Describe how femtosecond lasers can be utilized to make complex cataract surgery safer and more predictable.
2. Identify surgical approaches to correct astigmatism.

26. Arteritic (GCA) vs NAION | Matthew Niemeyer, MD

This course will discuss the two forms of ischemic optic neuropathy and will provide an overview of the disease processes, highlighting the pathogenesis, risk factors, clinical manifestations and treatment options. The reasons for the urgent diagnosis and treatment of the arteritic form will be discussed.

Objectives:

1. Differentiate between the two forms of ischemic optic neuropathy.
2. List treatment options for each form of ischemic optic neuropathy.

27. Jeopardy! Pediatric Ophthalmology Pearls | David Epley, MD

This course will play a game of Jeopardy, the goal of which will be to transfer a set of pediatric ophthalmology pearls to the attendee. Diseases, workup, evaluations, and more will be covered in this workshop. The attendee will learn through a mixture of game play and traditional didactic lecture.

Objectives:

1. Discuss various pediatric disease processes.
2. Describe the workup, evaluation and treatment options for each.

28. Refractive Surgery 2015: Pearls for the Technician | Keith Dahlhauser, MD

This course will provide a description of refractive surgical techniques, compare and contrast PRK and Lasik procedures and discuss preoperative education for the patient. We will discuss mechanical versus laser flap creation and possible complications of both. Screening tests that help choose the best procedure for each patient will also be reviewed.

Objectives:

1. Explain the differences between PRK and Lasik.
2. Describe various screening tests used in the pre-operative evaluation.

29. Alternative Medicine and the Eye | Brian Roth, MD

This lecture will discuss various alternative medical treatments purported to have beneficial effects on vision or on the health of the eye or visual system. The treatments discussed will range from the basic, such as vitamins, to the obscure, such as “x-ray” glasses. The discussion will also include a description of the “scientific method”, “evidence-based medicine”, “anecdotal evidence” and other methods that help to determine the validity of any form of medical treatment, allopathic or alternative.

Objectives:

1. Demonstrate familiarity with alternate medicine approaches to eye and vision health.
2. Discuss ways to determine the validity of allopathic and alternative medicine.

30. The Winning Team: What’s Your Part? | Leslie Hargis, COMT, COE

This course will discuss the various roles in the ophthalmic clinical setting and the importance of each team member in achieving a positive experience for the patient. We will discuss ways to increase efficiency, maintain good patient rapport and outline ways to help you become a more productive and connected part of the eye care team to ultimately benefit your employer, patients and career.

Objectives:

1. Describe the various roles in the eye care team.
2. Discuss ways to become a valued and vital team member.

2015 WORKSHOP SCHEDULE

COURSE SPEAKER

8:30 – 9:30	31A Evaluating the Cornea: From Ocular Surface through Posterior Float › Craig Fitch, B.Sc. – <i>Oculus, Inc.</i>	32A Humphrey Visual Field Analyzer: Best Practices › Connie Demarse, CCOA – <i>Carl Zeiss Meditec</i>
	33A Retinal B-Scan Imaging › G. Atma Vemulakonda, MD	34A Clinical Applications of the Spectralis OCT › Rick Barbosa – <i>Heidelberg Engineering</i>
9:40 – 10:40	31B Basic Ocular Motility › Claire Callaghan, CO, COMT	32B Cirrus HD-OCT: Best Practices › Bill Machesney – <i>Carl Zeiss Meditec</i>
	33B Slit Lamp Techniques › Parisa Taravati, MD	34B Manual Keratometry › Stephen Carow, COMT, OCS
10:50 – 11:50	31C LENSTAR Optical Biometry: Best Practices › Bobby Fernandez – <i>Haag-Streit</i>	32C IOL Master: Best Practices › Connie Demarse, CCOA – <i>Carl Zeiss Meditec</i>
	33C Non-Mydriatic Fundus Photography › Kellie Godlesky – <i>Nidek</i>	34C Manual Lensometry › Stephen Carow, COMT, OCS
11:50 – 1:00	LUNCH	
1:10 – 2:10	31D Immersion A-Scan › Tina Campbell, COT	32D Cirrus HD-OCT: Best Practices › Connie Demarse, CCOA – <i>Carl Zeiss Meditec</i>
	33D Intermediate/Advanced Ocular Motility › Claire Callaghan, CO COMT	34D Manual Keratometry › Stephen Carow, COMT, OCS
2:20 – 3:20	31E Clinical Applications of the Spectralis OCT › Rick Barbosa – <i>Heidelberg Engineering</i>	32E Atlas Corneal Topography: Best Practices › Bill Machesney – <i>Carl Zeiss Meditec</i>
	33E Soft Contact Lens Fitting › Ginny Mercer LDO, HFOA	34E LENSTAR Optical Biometry: Best Practices › Bobby Fernandez – <i>Haag-Streit</i>
3:30 – 4:30	31F Manual Lensometry › Stephen Carow, COMT, OCS	32F IOL Master: Best Practices › Connie Demarse, CCOA – <i>Carl Zeiss Meditec</i>
	33F Evaluating the Cornea: From Ocular Surface through Posterior Float › Craig Fitch, B.Sc., <i>Oculus, Inc.</i>	34F Non-Mydriatic Fundus Photography › Kellie Godlesky – <i>Nidek</i>

Workshop Descriptions

31A., 33F. Evaluating the Cornea: From Ocular Surface through Posterior Float | Craig Fitch, B.Sc., Oculus

This course will discuss clinical applications of the Oculus Pentacam and Keratograph 5M corneal topographers. The class will include both hands-on instruction and will explain and demonstrate the techniques needed to generate corneal topographical data for general screening, refractive and cataract analysis, dry eye screening and treatment, keratoconus evaluation and contact lens fitting as well as risk factor evaluation for glaucoma.

Objectives:

1. Describe the techniques to acquire corneal topographical data.
2. Interpret the topographic maps commonly used.

32A. Humphrey Visual Field Analyzer: Best Practices | Connie Demarse, CCOA, Carl Zeiss Meditec

This course will provide an overview of perimetry and the importance of visual field testing. Instructions to patients, printing, saving test results, and maintenance of the instrument will be emphasized. Solutions to common field testing obstacles will be discussed. Participants will also learn a basic understanding of how to read the visual field printout for the purpose of obtaining a reliable patient test. The newest software in guided progression analysis will be introduced.

Objectives:

1. Name clinical applications for perimetry testing.
2. Recognize various testing strategies (screening vs. threshold, SITA Standard vs. SITA Fast).
3. Describe ways the technician plays a key role in obtaining reliable test results.
4. Read test printouts.

33A. Retinal B-scan Imaging | G. Atma Vemulakonda, MD

This course will include a discussion of the terminology and basic principles of diagnostic B-scan examination of the eye and will provide hands-on exposure in the fundamental skills needed to perform a basic B-scan. Attendees will have the opportunity to perform B-scans on each other and learn techniques to obtain an echographic picture of the globe.

Objectives:

1. Discuss the basic operation of B-scan ultrasound.
2. Explain the techniques to obtain an echographic picture of the globe.

34A., 31E. Clinical Applications of the Spectralis OCT | Rick Barbosa - Heidelberg Engineering, Inc.

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.

Objectives:

1. Discuss clinical applications of the Spectralis OCT.
2. Describe key elements of scan modes, analysis tools and techniques used to obtain high quality scans.

31B. 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.

Objectives:

1. Test normal ocular motility.
2. Assess ocular movements.

32B., 32D. Cirrus HD-OCT: Best Practices | Bill Machesney, Connie Demarse, CCOA, Carl Zeiss Meditec

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.

Objectives:

1. Discuss clinical applications of Cirrus OCT.
2. Describe how to operate the Cirrus OCT in difficult situations.
3. Read the more advanced printout options of Cirrus OCT.

33B. Slit Lamp Examination Techniques | Parisa Taravati, MD

This 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.

**The lecture, "Slit Lamp Examination Techniques" is a prerequisite for this workshop.*

Objectives:

1. Identify the techniques used in a slit lamp examination.
2. Demonstrate the correct use of each technique used in a slit lamp examination.

34B., 34D. 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.

Objectives:

1. Name the uses of manual keratometry.
2. Explain the techniques used to perform manual keratometry.

Workshop Descriptions *(continued)*

31C., 34E. LENSTAR Optical Biometry: Best Practices | Bobby Fernandez, Haag-Streit

This hands-on workshop will provide an in-depth overview of the Haag-Streit LENSTAR including a demonstration of how to best obtain biometry measurements, including axial length, keratometry, corneal thickness, anterior chamber depth, lens thickness, white-to-white measurements, pupillometry and eccentricity of the visual axis. The course will also include information on the newest IOL formulas available and circumstances that dictate which are best for particular eyes along with tips on obtaining quality measurements on difficult patients, including those who are post-refractive surgery.

Objectives:

1. Demonstrate best practices of the LENSTAR
2. Identify ways to obtain quality measurements on difficult patients.
3. Discuss the appropriate validation criteria to use in evaluating obtained measurements.

32C., 32F. IOL Master: Best Practices | Connie Demarse, CCOA, Carl Zeiss Meditec

This course will review basic optical coherence biometry technology. It will include a review of operator technique, how to ensure reliable measurements and how to troubleshoot common obstacles. An IOL Master 500 instrument will be available for hands-on practice. Lens database management will also be discussed.

Objectives:

1. Discuss clinical applications of optical coherence biometry.
2. Troubleshoot common obstacles.
3. Access and back up the lens database.

33C., 34F. Non-Mydriatic Fundus Photography | Kellie Godlesky, Nidek

This hands-on workshop will review the basics of fundus photography using a non-mydriatic fundus camera provided by Nidek. It will discuss the purpose of photography including the clinical applications and basic trouble-shooting techniques.

Objectives:

1. Describe the clinical applications of fundus photography.
2. Name at least three trouble-shooting techniques.

34C., 31F. 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.

Objectives:

1. Define the uses of manual lensometry.
2. Explain the techniques used to perform manual lensometry.

31D. Immersion A-scan | Tina Campbell, COT

This hands-on workshop will review common settings for A-Scan biometry and will discuss A-Scan echo pattern recognition and interpretation. It will review the concepts of gain, gates, velocities and how they affect axial length measurements.

**Attendees will be expected to participate in the role of both patient and examiner during the class.*

Objectives:

1. Discuss the basic operation of A-Scan biometry.
2. Explain how to evaluate scan quality.

33D. 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.

Objectives:

1. Understand and test strabismus.
2. Identify the different types of strabismus.

32E. Atlas Corneal Topography: Best Practices | Bill Machesney, Carl Zeiss Meditec

This course will discuss clinical applications of corneal topography using the Atlas 9000 corneal topographer, including how to read the most common maps. It will review proper operator technique and how to ensure reliable image capture.

Objectives:

1. Discuss clinical applications of corneal topography.
2. Operate the Atlas Corneal Topographer using proper capture technique.
3. Read the Atlas Corneal Topographer printouts.

33E. Soft Contact Lens Fitting | Ginny Mercer LDO, HFOAA

This hands-on workshop will map out soft contact lens fitting basics. A review of lensometry, slit lamp evaluation of soft contact lenses, vertex conversion and initial base curve selection will be given. Patient needs and expectations regarding contact lenses will also be discussed. Contact lenses provided by *Cooper Vision*.

Objectives:

1. Explain how to perform a basic soft contact lens fitting.
2. Describe assessment of patient needs and expectations for contact lens wear.

WAEPS

2001 6th Avenue, Suite 2700
Seattle, WA 98121

www.waeps.org

206-956-3650

waeps@waeps.org

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