The School of Ophthalmic Medical Technology Regions Hospital

Thirty- Ninth Annual

2016

Continuing Education Program
for
Ophthalmic Medical Personnel

May 13 & 14, 2016

Registration and General Information
Certification Is Not Required To Attend This Meeting.

1. ***PLEASE NOTE: NEW MEETING LOCATION!***

Hilton Minneapolis/St Paul Airport Mall of America
3800 American Blvd, Bloomington, MN 55425

2. **TUITION:** The tuition schedule is designed to help you save money two ways: through pre-registration and using group discounts. Use them both to receive maximum savings. Tuition includes registration,continental breakfast, lunch Friday and Saturday, and refreshment breaks.
To be eligible for group discounts, multiple registrations and tuition must be mailed together in one envelope.

Number of people	Pre-Registration	On-Site
1-3	$350 each	$450 each
4-6	$335 each	$435 each
7-9+	$300 each	$400 each

Tuition must accompany registration form (located at back of brochure). Payment will be accepted in US Funds only.

ONE DAY REGISTRATION OPTION: $220.00 each
NO Group Discounts
Advance Registration ONLY

3. **ADVANCE REGISTRATION:** Advanced registration is strongly rec ommended due to limited enrollment in many of the sessions. Advance registration deadline: April 29, 2016 Orders will be processed in the order that they are received. Advance registra tion orders postmarked after April 29, 2016, may be returned to sender for on-site registration.
NOTE MULTIPLE-PERIOD COURSES MAY NOT BE DIVIDED.

CONFIRMATION: Registrants will receive a confirmation postcard which must be presented to claim course tickets.
PLEASE Provide a second choice for your courses, this allows us to give you the most complete schedule possible.
CANCELLATIONS: Notification of cancellation must be submitted in writing and received by Friday April 29, 2016. A processing fee of $85.00 will be deducted from all refunds. Refunds will be made to payor. Refunds which affect group discount rate will be adjusted accordingly. Cancellations will not be refunded after April 29, 2016.

4. **ON-SITE REGISTRATION**:
Thursday, May 12- 6:30 PM to 8:00 PM
Friday May 13-7:30 AM to 4:00 PM & Saturday May 14 7:30-3:00.

5. **LOCATION:** NEW LOCATION!! The meeting will be held at the Hilton Mpls/St Paul AIrport Mall of America, 3800 American Blvd, Bloomington, MN 55425. Phone: 1-952-854-2100. email:mspairport.hilton.com

6. **ACCOMMODATIONS:** For your convenience, a block of rooms ($129/double, plus tax) has been reserved at the Hilton. Reservations can be made directly with the hotel by calling reservations at 1-800-445-8667 and by identifying yourself as a participant in this (Regions Ophthalmic Tech) program. To assure hotel accommodations, the hotel must receive your reservation request on or before April 28, 2016 (after April 28 the hotel will accept reservations subject to availability and group rate is not guaranteed).

7. **TRANSPORTATION:** The Hilton provides complimentary shuttle service to/from Minneapolis/St. Paul International Airport (MSP)and Mall of America. Hiawatha Light Rail located directly across the stree from the hotel offers easy commute to downtown Minneapolis.On-site, free parking is available at the Hilton.

8. **CONTINUING EDUCATION (CE) CREDITS:** This course has been submitted to JCAHPO for consideration of CE credit. A maximum of 13.0 credit hours will be available. Attendance will be monitored for each session. Credit for a course hour will be denied to individuals who miss more than 15 minutes of an hour.
Verification of credits earned will be mailed to participants approxi mately 3-4 weeks after the meeting.This course 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.

9. **HANDOUTS ONLINE!: Handouts for courses will NOT be provided at meeting site** . On May 2, 2016 a link will be sent via email with instruc tions for downloading and printing the available handouts for your registered courses. The link will be available until May 31st.

10. **REFRESHMENTS & LUNCHES**: Included in the tuition. Continental breakfast will be available beginning at 7:30 am. Lunch will be served both days. Notate need for Gluten-Free on Registration

11. **ATTIRE:** Casual attire is suggested. Dress in layers; room temperatures tend to be cool.

12. **CELLULAR PHONE/PAGER/POLICIES:** Cellular phones and other electronic devices must be turned off or set to a non-ringing mode during lectures and workshops.

Please refrain from texting during courses.

The School of Ophthalmic Medical Technology wishes to express our gratitude to the Instructors for sharing their time, talent, and expertise.

Sanaz Afiat, MD; McCannel Eye Clinic, Edina, MN
Omar Awad, MD, Awad Eye Care, Falcon Heights, MN
Evan A. Ballard, MD, Associated Eye Care, Stillwater, MN; Clinical Professor, Dept. of Ophthalmology, Univ. of MN; Instructor, School of Ophthalmic Medical Technology.
Ryan Barrett, MD MN Eye Consultants, Bloomington, MN
Timothy Barrett, BCO, BADO; Midwest Eye Laboratories, Woodbury, MN
Brenda Boden, CO, Park Nicollet Eye Department, St Louis Park, MN
Holly Cheshier, COT, CRA, OCT-C, Vitreoretinal Surgery PA, Edina MN; Instructor School of Ophthalmic Medical Technology
Michelle Dornan- Vickery, MA, CVRT; Vision Loss Resources, Mpls, MN
Kevin Engel, MD, Hennepin County Medical Center, Minneapolis,MN
Kris Fey, COMT, Program Director, School of Ophthalmic Medical Technology- Regions Hospital, St Paul, MN
Dianna E. Graves, BS, COMT, Clinic Services Manager, St. Paul Eye Clinic PA, St. Paul, MN; Instructor, School of Ophthalmic Medical Technology
Stella Hennen, MD MSPH, CEO and Co-Founder of Eyecare MPLS, PLLC Minneapolis, MN
Lisa Houle, COT, HealthPartners Bloomington, MN
Nic Jacobs, COA, CCRC, OSA; Chu Vision Insitute, Bloomington, MN
Gene Keating, MN Lions Eye Bank, St Paul, MN
Alla Kelly, MD, St Paul Eye Clinic, St Paul, MN
John Knapp, MD, HealthPartners Health Specialty Center, St Paul, MN; Instructor School of Ophthalmic Medical Technology.
Leslie A. Kopietz, MD, Past Medical Director- School of Ophthalmic Medical Technology
Mark Lobanoff, MD, North Suburban Eye Specialists, Coon Rapids, MN
Jeffrey Lynch, MD; Associated Eye Care, Stillwater, MN; CEO and Founder of ReSpectacle
Chris McDevitt, MD; Mayo Clinic Health System, Red Wing, MN; Medical Director and Instructor- School of Ophthalmic Medical Technology
Jill Melicher, MD, Minnesota Eye Consultants, Minneapolis, MN
Erick Nelson, VP, Low Vision Store, St Paul, MN
Princessita OBrien, COMT; University of Minnesota, Minneapolis, MN

Kelsey Ostrowski, COMT, St Paul Eye Clinic, St Paul, MN
Tyler Olsby, COMT, Zeiss Meditec, St Paul, MN
Joshua Olson, MD, University of Minnesota Dept. of Ophthalmology
Jeff Peterson, OD, VisionWorks, Burnsville, MN
Polly Quiram, MD, Vitreoretinal Surgery, PA, Edina, MN
Emily Schmidt, COT, Associated Eye Care, Stillwater, MN
Nicholas Schmitt, MD, Northwest Eye, Wayzata, MN
Gary S. Schwartz, MD Associated Eye Care, Stillwater, MN
Aaron Tsai, MD; St Paul Eye Clinic, Woodbury, MN
Jessica Turner, RN; Instructor, School of Ophthamic Medical Technology, St Paul, MN
Scott Uttley, MD; St. Paul Eye Clinic, Woodbury, MN
Andy Winters, COMT, ABOM, Associated Eye Care, Stillwater, MN; Instructor School of Ophthlamic Medical Technology

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The School of Ophthalmic Medical Technology
wishes to express our gratitude to the following companies
that offer their continuing support of this program.

Walman Optical
Johnson Ophthalmic Equipment

1-F-1
ADAPTATIONS FOR LOW VISION
Michelle Vickery
A One Period Course – **Basic**
Prerequisites: None
What is Low Vision? How do we evaluate patients with low vision? and how do we help them? This course will define low vision, discuss the evaluation process including low vision acuity testing, lighting, contrast and color vision. Information regarding providing additional support to the patient will be presented.

1-F-2
EVOLUTION OF CATARACT SURGERY
Gary Schwartz, MD
A One Period Course –**Basic**
Prerequisites: None
Things sure have changed since Susruta couched his first cataract 3000 years ago in India. Only 40 years ago cataract surgery meant a week in the hospital with sandbags on either side of your head. Nowadays, with no-stich surgery, patients are shoveling driveways the next day! What a ride! This couse will review all the major breakthroughs of cataract surgery over the past 3000 years.
Objectives: Upon completion of the course, the participants should be able to describe the major breakthroughs leading to modern cataract surgery.

1-F-3
TEAR FILM DYSFUNCTION
Gary Schwartz, MD
A One Period Course - **Intermediate/Advanced**
Prerequisites: None
Tear film dysfunction is one of the most common reasons that patients present to the eye clinic, yet remains among the most misdiagnosed and poorly treated. This course will explore the delicate interworkings of the oil, aqueous, and mucin layers of the tear film, and explain what happens when things go wrong. A stepwise, plan for treating patients will then be presented.
Objectives: Upon completion of the course, the participants should be able to describe the normal tear film and explain what to do when patients are having problems.

1-F-4
HVF BEST PRACTICES
Tyler Olsby, COMT
A One Period Course - **Basic/ Intermediate**
Prerequisites: None
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 a visual field printout for the purpose of obtaining a reliable patient test. The newest software in guided progression analysis will be introduced.
Objectives: Upon completion of this course the attendees should be able to:
1. Understand clinical application for perimetry testing
2. Recognize various testing strategies (Screening vs. threshold, SITA Standard vs. SITA Fast)
3. Appreciate the importance of the technician's role for reliable test results
4. Understand how to read the test printout

1-F-5

JUST HANGING AROUND!

Dianna Graves, COMT

A One Period Course: **Basic / Intermediate/Advanced**

Prerequisites: Basic Anatomy of the Eye, Medical Terminology

We often take our eyelids for granted until something goes wrong: they start to droop or sag, a bump or lump appears, or they just make us look "old"! We will discuss the anatomy of the eylides, as well as some of the problems that can occur with our lids (chalazion, stye, ptosis). A discussion of triage questions will also occur, as well as what types of pre-testing may need to be ordered (lid fields).

Objectives: At the completion of this course, the attendee should be able to:

1. Discuss the anatomical layers of the eyelids
2. Discuss basic terminology regarding eyelid problems
3. Discuss various tests the patients may need prior to seeing the doctor and why (taped/untaped lids)

1-F-6

MAKING A DIFFERENCE: WORKING WITH YOUR PATIENTS TOWARDS A HAPPY CLINICAL RESULT

Dianna Graves, COMT

A One Period Course: **Basic / Intermediate**

Prerequisites: Anatomy of the eye, Basic clinic skills

"Routine" office visit dynamics vary greatly depending on who you are talking to about the exam. The patient wants an explanation of their illness/concerns in a language they understand, an efficient office visit and they want the "appropriate" amount of quality time to be spent by their provider. The technician wants: a patient that can give them a concise account of their illness/concerns, someone that is cooperative during the testing process and a "partner" in achieving the best exam possible. The doctor wants: an excellent technical exam, a patient that will follow their instructions and someone that will work with them regarding their health. In essence - everyone wants it all!

Objectives: At the completion of this course, the participant should be able to:

1. Identify patient/ technician& physician expectations and discuss tips to achieve those goals
2. Identify known pitfalls in the above and how to avoid them
3. Identify partnering tips with your patient to ensure an excellent office visit

1-F- 7

ADVANCED CIRRUS HD-OCT BEST PRACTICES

Tyler Olsby, COMT

A One Period Course – **Intermediate/Advanced**

Prerequisites: Experience using OCT

Ths course will discuss basic and advanced 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 overcoming difficult obstacles. It will also review the latest advancements in Cirrus OCT capabilities.

Objectives: At the completion of this course the participants should be able to:

1. Discuss advanced clinical applications of Cirrus OCT
2. Understand how to operate the Cirrus OCT in difficult situations
3. Read the more advanced prinout options of the Cirrus OCT
4. Recognize new Cirrus OCT capabilities including AngioPlex and Anterior Segment measuring tools

2-F-1

OCULOPLASTIC PEARLS- PERIOCULAR LESIONS: IDENTIFYING LUMPS AND BUMPS

Jill Melicher, MD

A One Period Course – **Basic/ Intermediate**

Prerequisites: Ocular Anatomy

This audience will earn identification techniques for patients with periocular lesions. Common “ lumps and bumps” seen in the clinic will be discussed.

Objectives: At the completion of this course the participants should be able to formulate differential diagnosis and recognize key clinical features distinguishing patients with periocular lesions.

2-F-2
RED EYE
John Knapp, MD
A One Period Course – **Basic**
Prerequisites: None
This course will disuss through visual and graphic case presentations the evaluation, diagnosis and treatment of common and serious causes of "red eye". A careful stepwise approach to the evaluation, diagnosis, and managment of "red eye" will be discussed
Objectives: At the completion of this course the participants should be able to describe:

1. Describe the important steps and evaluation of the "red eye"
2. Identify those "red eyes" which require immediate, urgent and semi- urgent care

2-F-3
MICROINVASIVE GLAUCOMA SURGERY (MIGS): EXPANDING THE ROLE OF COMPREHENSIVE OPHTHALMOLOGY
Joshua Olson, MD
A One Period Course - **Intermediate**
Prerequisites: None
As our population continues to age, we are seeing more patients with glaucoma every year. Due to advances in screening techniques and treatments, most of these patients are now being identified and controlled with mild to moderate glaucoma.Eventually, many of these patient will develop cataracts and require surgical extraction.With the advent of MIGS, our growing population of patients with mild to moderate glaucoma and cataracts may now benefit from a combined procedure. These procedures can further help to lower intraocular pressure and protect from glaucoma progression, while lowering medication burden for the patient. The safety of MIGS compared to other well established glaucoma surgery (trabeculectomy and tube shunts) is where these new surgeries are gaining popularity. The iStent is currently the only FDA approved MIGS device for use in the US, however many new devices are currently under investigation. Given that most cataract patients will undergo surgery with a comprehensive ophthalmologist, MIGS surgery is essential for surgeons to adapt to their practices. A basic understanding of MIGS surgeries, compared to other glaucoma treatments, is needed-for all levels of ophthalmic care providers as more and more of these devices are going to be used in the coming years.

2-F-4
DONATION: THE HUMAN GIFT
Gene Keating
A One Period Course - **Basic**
Prerequisites: None
This course will provide an overview of the steps leading from the death of a potential donor to transplantable tissue being distributed to a surgical facility.
Objectives:
1. Explain the process of screening a donor.
2. Explain the process of approaching a family.
3. Eplain the process of recovering a transplantable tissue
4. Explain the processes of evaluating tissue.

2-F-5
SYSTEMIC STUFF SEEN AT THE SLIT LAMP
Scott Uttley, MD
A One Period Course – **Intermediate/Advanced**
Prerequisites: A Basic understanding of ocular anatomy
When is there more to an eye than meets the eye? The slit lamp exam can assist in the diagnosis of numerous systemic illnesses. These can include rheumatologic, metabolic, and infectious diseases. This course will review the ophthalmic manifestations of many systemic diseases with specific emphasis on the findings in the anterior segment of the eye. The course will also emphasize which eye exam findings may warrant further medical workup as well as which eye findings can be associated with life threatening disease.
Objectives: At the end of the course, the attendee should be able to
1. Identify which systemic illnesses present with ophthalmologic findings
2. List the important slit lamp exam findings associated with multiple systemic diseases
3. Recognize key ophthalmologic findings which may indicate the need for further medical workup.
4. Recognize eye exam findings that can be associated with life threatening disease.

2-F-6
MANAGEMENT OF KERATOCONUS
Ryan Barrett, MD
A One Period Course – **Intermediate**
Prerequisites: Basic Ocular anatomy
Keratoconus is a relatively common disorder that can involve each layer of the cornea and lead to refractive changes. Traditional methods of glasses and contacts are available, but newer, more invasive, successful treatments are also now available. This course will discuss the options for treatment of this condition.
Objectives: At the completion of this course the participants should be able to describe multiple treatment options for patients with keratoconus.

2-F-7
CHRONIC VISION LOSS
Kevin Engel, MD
A One Period Course – **Basic**
Prerequisites: None
This course will discuss the common ocular diseases leading to chronic vision loss. These will include: Glaucoma, Macular Degeneration, Cataract, and Diabetes. This course will discuss the evaluation, diagnosis, and management of these diseases as well as the underlying pathophysiology of these diseases
Objectives: At the completion of this course the participants should:

1. Understand the evaluation and treatment of the common ocular causes of chronic vision loss
2. Understand the underlying pathophysiology of the common ocular disease causing chronic vision loss

3-F-1
REFRACTION PEARLS: BETTER REFRACTIONS STARTING MONDAY MORNING
Jeff Peterson, OD
A One Period Course: **Intermediate**
Prerequisites: Basic understanding of refractometry
A fast- paced hour of fine-tuning your refraction skills in order to be more accurate and efficient while enjoying your patient. This basic procedure addresses more chief complaints than any other. Getting it right the first time is crucial and you will learn tips and tricks that have helped this doctor perform over 50,000 (mostly successful) refractions.
Objectives: To learn at least one tip or idea for every 5-10 minutes of the presentation that you can put into practice starting Monday morning.

3-F-2
NUTRITION AND THE EYE
Leslie, Kopietz, MN
A One Period Course - **Basic**
Prerequisites: None
The relationship of diet and supplements to eye health will be discussed.
Objectives: Upon completion of this course the attendees should be able to describe:
1. The components of AREDS vs ARED 2 vitamins
2. The role of antioxidents in eye health
3. The role of omega-3 essential fatty acids in eye health

3-F-4
HOW TO ASSIST IN LASIK IN 2016
Omar Awad, MD
A One Period Course - **Beginner- Advanced**
Prerequisites: Basic understanding of anatomy and LASIK surgery
The ophthalmic technologist/technician/assistant is a critically important member of the laser vision correction team. This course will discuss the steps involved in laser vision correction surgery, focusing on femtosecond-laser LASIK and PRK procedures. Emphasis will be placed on methods to provide excellent care in the most efficient and effective manner.
Objectives: At the end of this class, the attendee should be able to:
1. Understand the steps involved in LASIK and PRK laser vision correction
2. Learn pearls for efficient and effective assisting in laser vision correction

3-F-5
CORNEA ANATOMY AND PHYSIOLOGY: HOW FUNCTION FOLLOWS FORM
Mark Lobanoff, MD
A One Period Course - **Basic**
Prerequisites: None
The basic anatomy of the cornea will be reviewed and discussed during this course, including the tear film, lacrimal anatomy as well as the cornea. Common breakdowns in the corneal anatomy will be reviewed.
Objectives: At the end of this class, the attendee should be able to:
1. Identify the common parts of the corneal anatomy
2. Discuss common conditions related to corneal breakdown

3-F-6
NEW REFRACTIVE TECHNOLOGIES FOR 2015
Mark Lobanoff, MD
A One Period Course - **Advanced**
Prerequisites: Basic corneal anatomy
This course will discuss newly evolving refractive surgery technologies. The new field of corneal inlays will be discussed.

3**-F-7**
NOT GUINEA PIGS... NAVY SEALS!
Nic Jacobs, COA, CCRC, OSA
A One Period Course - **Basic/ Intermediate**
Prerequisites: None
The technicians role in the paitent experience is important in an ophthalmology practice. Managing the patient experience in a clinical trial can be even more challenging. Learn how to provide a great experience for your patients and ensure trial success.
Objectives:

1. Learn roles of a technician in research
2. Describe how to improve the patient experience in a clinical trial
3. Discover ways to keep organized and ensure trial success

4-F-3
ASEPTIC TECHNIQUE- THE METHOD OF "DOING AND THINKING"
Jessica Turner, BSN
A One Period Course: **Basic/ Intermediate (limit 30 participants)**
Prerequisites: None
Aseptic Technique encompasses the practices used to create, protect, and maintain the surgical field. In this course we will explore and discuss the principles of aseptic technique. It not only takes skill as a technician but also a clear understanding on how to maintain a sterile field. We will also take a look at the differences between aseptic technique and clean technique and where you would use each. Time permitting we will have some hands on demonstrations of gowning, open and closed gloving
Objectives: After completion of this course the participants will be able to list the top Principles of Aseptic Technique as well as describe the difference between aseptic and clean technique

4-F-4
LOW VISION PRODUCTS AND COMPUTERS
Erik Nelson; Low Vision Store
A One Period Course- **Basic (Limit 30 participants)**
Prerequisites: Low vision experience or interest in low vision
This course will discuss Low Vision products that are available for patients with low vision. The newest computer technology available will be detailed for better understanding of what would work best for which patient. Low Vision products will be available for viewing and hands on learning.
Objectives: At the completion of the course, participants should be able to discuss the use, benefits and availability of Low Vision products with their patients.

4-F-5
TRIAGING DIPLOPIA
Brenda Boden, CO
A One Period Course: **Intermediate/Advanced (Limit 30 participants)**
Prequisites: Ophthalmic Assistant, COA, or COT
This course will cover sensory physiology, visual pathway, monocular diplopia and binocular diplopia. Specifically, how to triage a diplopic patient and differentiate between an emergent or chronic diagnosis.
Objectives: After completion of this course the participants will be able to:
1. Understand Sensory Physiology
2. Describe the visual pathway
3. Evaluate and identify monocular diplopia
4. Evaluate and identify binocular diplopia

4-F-6,7
TONOMETRY LECTURE AND WORKSHOP
Princessita OBrien, COMT
A One and 1/2 Period Course: **Basic (Limit 10 participants)**
Prerequisites: Basic knowledge of the slit lamp
This lecture will cover the basic principles of Goldmann tonometry as well as some of the other tonometers available. The workshop will provide the participant with the opportunity for hands on experience with the Goldmann and other tonometers.
Objectives: At the end of the course the participants will.
1. Describe each instrument used and the difference in technique
2. Discuss the problems/solutions for each tonometer

1-SA-1
OCULAR TRAUMA
Nicholas Schmitt, MD
A One Period Course - **Intermediate**
Prerequisites: Basic understanding of ocular anatomy
This course will examine the most common and not-so-common eyelid and orbital lesions that present to the eye doctor. Case studies illustrating diagnosis and management are presented.

1-SA-2
OCULAR PHARMACOLOGY
Christopher McDevitt, MD
A One Period Course: **Basic**
Prerequisites: None
This course will review basic principles of pharmacology and therapeutic drug delivery as applies to ophthalmology. Updates to include drug delivery to posterior segment and nanotechnology.

1-SA-3
OPHTHALMOLOGY CLINICAL PRACTICE UPDATES
Christopher McDevitt, MD
A One Period Course **- Intermediate**
Prerequisites: None
The goal of this course is to provide ophthalmic assistants updates from clinical studies related to Cataract Surgery and IOL's, Refractive Surgery, Cornea, Glaucoma, Oculoplastics and Neuro-ophthalmology. Two or three articles from each topic will be chosen from the Yearbook of Ophthalmology 2015 and the key findings will be presented. The subjects chosen should be easily recognizable for ophthalmic personnel and part of the practice of general ophthalmologists and specialists.

1-SA-4
IS THIS KID FAKING?
Evan Ballard, MD
A One Period Course **Intermediate**
Prerequisites: None
It is not rare that children will exaggerate symptoms or feign visual disturbances to gain attention or to obtain glasses they don't really need. This course is designed to explore the types and typical presentations of functional disorders in children. The serious eye diseases that need to be considered in such children will be discussed. Methods of distinguishing functional from organic visual problems will be presented.
Objectives: At the end of the course, The participant will be able to:
1. Distinguish malingering from hysterical complaints
2. Learn to recognize signs of true organic eye disease
3. Learn to disciminate signs of functional eye disease in children
4. Describe methods of managing functional complaints

1-SA-5
OCULAR EFFECTS OF PEDIATRIC BRAIN TUMORS
Evan Ballard, MD
A One Period Course- **Intermediate**
Prerequisites: Basic knowledge of visual pathways is helpful
This course will review the neuroanatomy of vision that can provide a window on the existence of a brain tumor. We will discuss the common brain tumors seen in children and their effects on vision and eye muscle balance. The diagnosis and treatment of such tumors will be introduced and there will be some discussion of the ocular complications of the treatment itself.
Objectives: Upon completion of this course the participant will be able to:
1. List the most common brain tumor types in children
2. Correlate the visual field with tumors at various location in the visual pathway
3. List methods of diagnosis and treatment of brain tumors that affect vision
4. Discuss the effect of tumors on eye muscle balance

1-SA-6
TRIAGING EYE EMERGENCIES
Kelsey Ostrowski, COMT
A One Period Course -**Basic/ Intermediate**
Prerequisite: None
In this course, we will discuss the fundamentals of triaging eye problems including the different levels of triage and what eye complaints fit into which level. We will also discuss the most common complaints fielded by eye care workers when it comes to eye emergencies as well as if and when those patients should be seen.
Objectives: Following the presentation participants will be able to:
1. Name the different triage levels
2. Identify which eye conditions fit into which triage level
3. Identify complaints of common eye emergencies
4. Determine if and when those emergencies should be seen

2-SA-1
CATARACT SURGERY
Alla Kelly, MD
A One Period Course - **Basic/ Intermediate**
Prerequisites: A basic understanding of ocular anatomy
This course will use a video and graphic approach to teach basic cataract surgery. The steps in the surgery, the tools used, as well as the lens implant options will be discussed. This course will also address pre-operative evaluation for successful surgical planning
Objectives: At the end of the class, the participants should understand the anatomy of the eye, understand the definition of a cataract and be able to identify the various types of cataracts, and understand the steps of cataract surgery.

2-SA-2
WHEN IMAGING BECOMES DIFFICULT...HOW DO YOU GET THE BEST IMAGE?
Holly Cheshier, COT, CRA, OCT-C
A One Period Course **-Intermediate/Advanced**
Prerequisite: Ability to perform OCTs and understand the basic ocular anatomy.
This course will present a series of short tips and strategies for maximizing diagnostic information in OCT's, Fundus Photography & Fluoresecin Angiography. Troubleshooting techniques will be covered in getting around the pitfalls of difficult media opacities, patients with special needs and challenging pathologies. We will discuss achieving the optimal scan for various pathology of both central and peripheral retina. We will look at different scan and photography options to help the technician get the best image possible for the physician. Case examples will be given
Objectives: At the conclusion of this course the student will be able to:
1. Identify common artifacts in OCT and Fundus photography
2. Apply tips and strategies to maximize diagnostic information when performing imaging tests.
3. Understand how to achieve the best possible images when working with various challenges of both the central and peripheral retina.

2-SA-3
WHAT?! I NEVER KNEW THAT! RANDOM OPHTHALMOLOGY FOR TECHS
Kris Fey, COMT
A One Period Course **-Basic**
Prerequisites: None
Glaucoma, macular degeneration, cataracts, these conditions affect our daily patient population. What about outside the "norm"? Do celebrities ever deal with eye problems? What about our furry animal friends? Many eye conditions that we see in our patients every day are also conditions of the "Rich and Famous" and furry! Review some common eye conditions and learn some fun facts too!

2-SA-4
"RETINAL UPDATE: CURRENT MANAGMENT OF
COMMON RETINAL DISEASES"
Polly Quiram, MD
A One Period Course - **Intermediate**
Prerequisites: A Basic understanding of retinal and ocular anatomy
This course is designed to review commonly encountered medical and surgical retinal diseases. This overview will describe current knowledge, management and ongoing clinical research studies. In addition, current surgical techniques and approaches will be described.
Objectives: Following the presentation, participants will be able to:
1. Describe the pathophysiology, diagnosis and treatment of age-related macular degeneration
2. Describe the pathophysiology, diagnosis and treatment of diabetic eye disease
3. Describe the surgical management of common vitreoretinal diseases

2-SA-5
NYSTAGMUS- TIPS FOR A BETTER EXAM
Emily Schmidt, COT
A One Period Course- **Basic**
Prerequisites: None
This course will cover the different groups, kinds and forms of nystagmus as well as show videos of the different types of nystagmus. We will discuss five valuable tips on performing an eye exam and specialized tests on a patient with nystagmus.
Objectives: Upon completion of the course, the participants should be able to:
1. Recognize the different types of nystagmus
2. List the different groups, kinds and forms that can be used to describe nystagmus
3. List the best tools to use for a nystagmus eye exam

2-SA-6
RESPECTACLE: A 21st CENTURY APPROACH TO EYEGLASS RECYCLING
Jeffrey Lynch, MD, CEO & Founder - ReSpectacle
A One Period Course: **Basic**
Prerequisites: None
The World Health Organization estimates that about 280 million people in the world have low vision (moderate to severe impairment) and that glasses could correct the sight of more than half of them. During a mission trip Dr Lynch thought there could be a more efficient way to match underserved patients with the glasses they needed. To this end Lynch and colleagues developed an innovative approach to recycling used eyeglasses using an online database, In May 2011 ReSpectacle was created. Spend this classtime learning about the need, this organization and wonderful opportunity to help in the ophthalmology community.

3-SA-1
TOP TEN NEURO-OPHTHALMIC URGENCIES
Aaron Tsai MD
A One Period Course - **Intermediate**
Prerequisites: A Basic understanding of ocular anatomy and the visual pathway
This course is an interactive review of the most common neuro-ophthalmic urgencies and emergencies. Plus reinforement of the critical aspects of the neuro-ophthalmic clinic history taking and exam (pupils, EOM's, eyelid movements).

3-SA-2
ANTERIOR SEGMENT IMAGING IN GLAUCOMA
Stella Hennen, MD, MSPH, CEO and Co-Founder of Eyecare MPLS, PLLC
A One Period Course **-Basic/Intermediate**
Prerequisite: None
This course will discuss anterior segment imaging in glaucoma using visual and graphic case presentations. At the end of the course participants will be able to analyze and interpret anterior segment imaging used for glaucoma
Objectives: At the conclusion of this course the student will be able to:
1. Describe various devices used for anterior segment imaging in glaucoma
2. Describe values, limitations and indications for anterior segment imaging in glaucoma

3-SA-3
CURRENT CONCEPTS IN CORNEAL TRANSPLANTATION: PK, DSAEK, DALK
Sanaz, Afiat, MD
A One Period Course: **Intermediate**
Prerequisites: Knowledge of the corneal anatomy
This course will describe the evolution of corneal transplantation through lecture, pictorial and video presentation from its origins to present day applications. The course will focus on the differences between PK (penetrating keratoplasty), DSEK (Descemet's stripping endothelial keratoplasty) and DALK (Deep anterior lamellar keratoplasty). It will provide an overview of the basic surgical techniques, appropriate indications, advantages and limitations of each procedure.
Objectives: At the end of the course the participants will.
1. Describe the differences between PK, DSEK, DALK
2. Name the basic advantage of each procedure

3-SA-4
FITTING AND FABRICATION OF THE OCULAR PROSTHESIS
Tim Barrett
A One Period Course: **Basic**
Prerequisites: None
This course will cover the basic process of fitting and fabrication of the Ocular Prosthesis and some of the changes in our industry in the last 100 years. We will also cover general care of the prosthesis, along with some of the challenges faced by the Ocularist and the Ophthalmologist.
Objectives: Upon completion of this course, the participants should:
1. Be able to describe to the patient the fitting process
2. Identify problems the patient is having and determine if the situation may be corrected by the Ocularist or better handled by the Ophthalmologist/Optometrist.

4-SA-1,2A
INTRODUCTION TO PLUS CYLINDER RETINOSCOPY
Andy Winters, ABOM, COMT
A One and One Half Period Course - **Basic (Limit to 30 participants)**
PreRequisites:None
This course will focus on the plus cylinder method of retinoscopy and will review and explain the optical aspects of the human refractive system and its errors: Hyperopia, Myopia and astigmatism. It will also explain the optical basis of the streak retinoscope and how this mechanism is used to measure refractive errors of the human eye. The phenomenon of "with" motion, "against" motion and "neutral" will be discussed and explained. The system of notation of retinoscopic findings will be explained, including working distance, and the methods for transposing this data into conventional optical terms
Objectives:
1. Demonstrate the ability to explain hyperopia, myopia and astigmatism
2. Demonstrate an understanding of the mechanism and function of the streak retinoscope
3. Describe the various types of behaviors of the retinoscopic results and transpose those results into optical terms

4-SA-2B,3
PLUS CYLINDER RETINOSCOPY WORKSHOP
Andy Winters, COMT ,ABOM, et al
A One and 1/2 Period Course **- Basic - (limited to 30 participants)**
Prerequisites: Participants will be required to provide their own retinoscope and 2 charged batteries while in this course.
Course 4-SA-1,2A is required
This course will demonstrate and teach technique of estimating refractive error of the human eye using the streak retinoscope, loose lenses and a schematic eye. Instruction will include, demonstration of the sleeve and how the positioning of it affects the behavior of the streak. Demonstration and instruction of "with" , "against', and "neutral". Demonstrating of how to estimate the appropriate working distance and how to incorporate this into the final results. Instruction in determining the spherical and cylindrical error and converting the results into a conventional optical expression of "sphere" "cylinder" and "axis"
Objectives: Upon completion of this course students should be able to demonstrate the ability to operate the streak retinoscope to estimate the spherical and cylindrical (if present) refractive error of the human eye and to record and express results in conventional optical terms.

4-SA-4,5A
LENSOMETRY LECTURE AND WORKSHOP
Lisa Houle, COT; Et al.
A One and 1/2 Period Course: **Basic (Limit 12 participants)**
Prerequisites: None
This lecture and workshop will provide the participant with the opportunity for hands on experience with the manual Lensometer. We will be reading in Plus Cylinder.
Objectives: At the end of the course the participants will.
1. Describe parts and uses of the lensometer
2. Identify sphere and sphereocylinder lenses

Friday, May 13, 2016

Room / Time	8:00-9:00	9:15-10:15	10:30-11:30		12:30-1:30	1:45-2:45	3:00-4:00	4:15-5:15
BALLROOM I	**1-F-1** Adaptations for Low Vision Vickery Page 6	**1-F-2** History of Cataract Surgery Schwartz Page 6	**1-F-3** Tear film Dys-function Schwartz Page 7		**1-F-4** HVF Best Practices Olsby Page 7	**1-F-5** Hanging Around Graves Page 8	**1-F-6** Making A Difference Graves Page 8	**1-F-7** Advanced Cirrus HD-OCT Olsby Page 9
BALLROOM II	**2-F-1** OculoPlastic PEARLS Melicher Page 9	**2-F-2** Red Eye Knapp Page 10	**2-F-3** Micro-Invasive Glaucoma Surgery Olson Page 10	Luncheon- 11:30-12:30 Included with Registration	**2-F-4** Donation the Human Gift Keating Page 11	**2-F-5** Systemic Stuff Seen at the Slit Lamp Uttley Page 11	**2-F-6** Mgmnt of Kerato-conus Barrett Page 12	**2-F-7** Chronic Vision Loss Engel Page 12
BALLROOM III	**3-F-1** Refraction PEARLS Peterson Page 13	**3-F-2** Nutrition and the Eye Kopietz Page 13			**3-F-4** How to Assist in LASIK in 2016 Awad Page 14	**3-F-5** Cornea Antatomy & Phys. Lobanoff Page 14	**3-F-6** New Refractive Technolo-gies Lobanoff Page 14	**3-F-7** Not Guinea Pigs..Navy Seals Jacobs Page 15
BALLROOM IV			**4-F-3** Aseptic Technique Turner Page 15		**4-F-4** Low VA Portable Products Nelson Page 16	**4-F-5** How to Triage Diplopia Boden Page 16	**4-F-6, 7A** Tonometry Lecture and Workshop (3:00-4:30) O'Brien Page 17	
MEETING SPACE FOYER	8:00-4:00pm SPONSORS/ VENDORS *Make Sure to Stop by and visit!*							

New Course Offering

Saturday, May 14, 2016

Hotel Room / Time	8:30-9:30	9:45- 10:45	11:00-12:00		1:00-2:00	2:15-3:15	3:30-4:30
BALLROOM I	**1-SA-1** Ocular Trauma Schmitt Page 17	**1-SA-2** Ocular Pharma-cology McDevitt Page 18	**1-SA-3** Clinical Practice Updates McDevitt Page 18		**1-SA-4** Is This Kid Faking? Ballard Page 19	**1-SA-5** Ocular Effects of Brain Tumors Ballard Page 19	**1-SA-6** Triaging Ocular Emergencies Ostrowski Page 20
BALLROOM II	**2-SA-1** Cataract Surgery Basics Kelly Page 20	**2-SA-2** When Imaging Becomes Difficult Cheshier Page 21	**2-SA-3** What? I Never Knew That! Fey Page 21	Luncheon - 12:00 - 1:00 Included with Registration	**2-SA-4** What's New in Retina? Quiram Page 22	**2-SA-5** Nystamus Schmidt Page 22	**2-SA-6** Respectacle Lynch Page 23
BALLROOM III	**3-SA-1** Top 10 Neuro-Ophth. Urgencies Tsai Page 23	**3-SA-2** Ant. Seg. Imaging in Glaucoma Hennen Page 24	**3-SA-3** Current Concepts in Corneal Transplants Afiat Page 24		**3-SA-4** Ocular Prosthesis Barrett Page 25		
CARDINAL PERCH	**4-SA-1,2A** Intro. to Plus Cyl Retinoscopy Lecture WINTERS Page 25	**4-SA-2B,3** Intro. to Plus Cyl Retinoscopy Worskshop WINTERS Page 26			**4-SA-4,5A** Lensometry Lecture and Workshop (1:00-2:30) Houle, et al Page 26		

New Course Offering

39th Annual CE Program
May 13 & 14, 2016

REGISTRATION FORM

Print Clearly- a name badge and Certificate of Attendance are produced from this form
Complete Both Sides of This Form

To be eligible for group discounts, multiple registrations and tuition must be mailed together in one envelope.

REGISTRANT INFORMATION

Name _____
FIRST LAST

Home Address_____

City_____State_____ Zip_____

E-mail Address _____

HANDOUTS will be available electronically. You **MUST** *provide a valid email address to recieved the link for handouts.*

EMPLOYER INFORMATION

Name of Employer _____

Business Address

City _____ State_____ Zip_____

Business Telephone_____ Fax:_____

1. **Are you JCAHPO Certified:** Yes No
2. **If yes, level of certification:**
   COA ___ COT ___ COMT ___ CCOA ___
3. **Have you previously attended this meeting ?** Yes No

PAYMENT INFORMATION: Full Program = $350.00 One Day Registration = $220.00
CREDIT CARD: VISA MASTERCARD CHECK ENCLOSED
Name on Card/Account: _____

Card Number: _____

Expiration Date:_____
CVC number: _____

Cardholder Signature:_____

Complete Course Ticket Order Form on Reverse Side

SELECTION OF COURSES

Registrant:

MULTIPLE PERIOD COURSES CANNOT BE DIVIDED

PERIOD		FIRST CHOICE		SECOND CHOICE	
		Course No.	Instructor	Course No.	Instructor
(F)riday AM	1				
	2				
	3				
(F)riday PM	4				
	5				
	6				
	7				
(SA)turday AM	1				
	2				
	3				
(SA)turday PM	4				
	5				
	6				

Did you remember to write your name at the top?

To obtain lowest registration fee, mail on or before April 29,2016
Check / payment must accompany registration form. Make check payable to:

School of Ophthalmic Medical Technology
Regions Hospital
864 Terrace Ct
St. Paul, MN 55130

To be eligible for group discount, multiple registrations and registration fee must be mailed together in one envelope.

TUITION:	Before 4/29/16	After 4/29/16
1-3 people	$350 each	$450 each
4-6 people	$335 each	$435 each
7-9 people	$300 each	$400 each

CONGRATULATIONS!

Please Join Us
Celebrating 30+years of Teaching by
Dr. Evan Ballard

Retirement Acknowledgement
and Celebration
Saturday May 14, 2016
11:45-12:45
Riverside Room

FOR ADDITIONAL INFORMATION, CONTACT:
School of Ophthalmic Medical Technology
Regions Hospital
864 Terrace Ct. St Paul, MN 55130
Phone (651) 254-3000 FAX (651) 778-2319
E-mail: OphTechSchool@HealthPartners.Com