The School of Ophthalmic Medical Technology
Regions Hospital

Thirty-Fifth Annual 2012

Continuing Education Program for Ophthalmic Medical Personnel

May 18, 19, 20, 2012
Registration and General Information
Certification Is Not Required To Attend This Meeting.

1. 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.

<table>
<thead>
<tr>
<th>Number of people</th>
<th>Pre-Registration</th>
<th>On-Site</th>
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<tbody>
<tr>
<td>1-3</td>
<td>$385 each</td>
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<td>4-6</td>
<td>$360 each</td>
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<td>10+</td>
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Tuition must accompany registration form (located at back of brochure). Payment will be accepted in US Funds only. We are UNABLE to accept credit card payments.

ONE DAY REGISTRATION OPTION: $215.00 each
   - For Friday OR Saturday ONLY
   - NO Group Discounts
   - Advance Registration ONLY

2. ADVANCE REGISTRATION: Advanced registration is strongly recommended due to limited enrollment in many of the sessions.

Advance registration deadline: April 27, 2012. Orders will be processed in the order that they are received. Advance registration orders postmarked after April 27, 2012, may be returned to sender for on-site registration.

NOTE: MULTIPLE-PERIOD COURSES MAY NOT BE DIVIDED.
Daily schedules are located on pages 28-30

Read “Prerequisites” in workshop course descriptions. Most workshops require attendance at an earlier lecture as a prerequisite to participate in the workshop.

CONFIRMATION: Registrants will receive a confirmation postcard which must be presented to claim 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 Monday April 27, 2012. 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 accepted after April 27, 2012.
3. **ON-SITE REGISTRATION**: Located on the Mezzanine Level:
   Thursday, May 17 - 6:30 PM to 9:00 PM
   Friday/Saturday, May 18 -19 -7:30 AM to 4:00 PM
   Sunday May 20 - 7:30- 10:00AM

4. **LOCATION**: The meeting will be held at the Minneapolis/St. Paul Airport Hilton Hotel, 3800 American Blvd East., Bloomington, MN 55425. Telephone: (952) 854-2100

5. **ACCOMMODATIONS**: For your convenience, a block of rooms ($109 single/double, plus tax) has been reserved at the Airport Hilton. Reservations can be made directly with the Airport Hilton by calling reservations at (952) 854-2100 and by identifying yourself as a participant in this program. To assure hotel accommodations, the hotel must receive your reservation request on or before April 27, 2012 (after April 27, the hotel will accept reservations subject to availability and group rate is not guaranteed).

6. **TRANSPORTATION**: The Airport Hilton Hotel provides complimentary shuttle service to/from Minneapolis/St. Paul International Airport (MSP). Courtesy telephones are located in the baggage claim area. You must telephone the hotel, upon arrival, to request the shuttle service. On-site, free parking is available at the Airport Hilton.

7. **CONTINUING EDUCATION (CE) CREDITS**: This course has been awarded a total of 59.25 JCAHPO credits (with a maximum of 15.00 credits available per attendee). 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 approximately 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.

8. **COURSE LEVELS**: A Basic session is one in which the individual is expected to have essentially no background on the subject; Intermediate session is for individuals who have one year of experience; an Advanced session is for individuals who have two or more years of experience. Prerequisites, if applicable, are noted for each session.

9. **REFRESHMENTS & LUNCHES**: Included in the tuition. Continental breakfast will be available beginning at 8:00 am. Lunch will be served Friday and Saturday.

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

11. **CELLULAR PHONE/PAGER/POLICIES**: Cellular phones and pagers 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 Clinic, 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.
Jeff Bender, COMT, Hennepin Faculty Associates, Minneapolis, MN
Natalie Buckman, Minnesota Lions Eye Bank, St Paul, MN
Keith H Carlson, MD, Claris Eye Care and Surgery, Minneapolis, MN
Holly Cheshier, COT, CRA, OCT-C, Vitreoretinal Surgery PA, Edina MN; Instructor School of Ophthalmic Medical Technology
John Davies, MD, Vitreoretinal Surgery PA, Edina, MN
Anna deMelo, CO, University of Minnesota Dept of Ophthalmology, Minneapolis, MN
Tim Diegel, MD, Park Nicollet Clinics, St Louis Park, MN
Tommy Elton, OD, Minnesota Eye Consultants, Minneapolis, MN
Vaughn Emerson, MD, Retina Center, Minneapolis, MN
Kevin Engel, MD, Chief of Ophthalmology Hennepin County Medical Center, Minneapolis, MN
David Folden, MD, North Suburban Eye Specialists, Coon Rapids, MN
Bill Ganzer, COMT, Bausch & Lomb, Maple Grove, MN
Dianna E. Graves, BS, COMT, Clinic Services Manager, St. Paul Eye Clinic PA, St. Paul, MN; Instructor, School of Ophthalmic Medical Technology
David Hardten, MD, Minnesota Eye Consultants, Minneapolis, MN
Kathy Hogue, CO, University of Minnesota Department of Ophthalmology, Minneapolis, MN
Bonny Hunt, COMT, Hennepin Faculty Associates, Minneapolis, MN
Jason Jedlicka, OD, Director Cornea and Contact Lens Institute; Edina, MN
Geri Jewell, COT, CPC, Minnesota Eye Consultants, Minneapolis, MN
Conor Johnson, Minnesota Lions Eye Bank, St Paul, MN
Mark Kapphahn, OD, PhD, HealthPartners Como Clinic, St. Paul, MN; Instructor, School of Ophthalmic Medical Technology
Leslie A. Kopietz, MD, HealthPartners Health Specialty Center, St. Paul, MN; Assistant Professor, Dept. of Ophthalmology, Univ of MN; Medical Director and Instructor, School of Ophthalmic Medical Technology.
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
LOW VISION PRODUCTS
Erik Nelson
A One Period Course – Basic
Prerequisites: Work with patients who have conditions that result in low vision
This course will discuss Low Vision products that are available for patients with Low Vision. The benefits of this equipment will be detailed for a better understanding of what product would work for which patient
Objectives: Upon completion of the course, the participants should be able to discuss the use and benefits of a variety of Low Vision products

1-F-2
BLINDNESS PRODUCTS
Steve Zent
A One Period Course – Basic
Prerequisites: None
This course will discuss the newest technology available for aiding the population of your blind patients. This will include the new advancement in optical character recognition technology and software as well as the new features in JAWS and the latest in Braille technology, the Focus 40 blue.
Objectives: Upon completion of the course, the participants should be able to discuss the latest technology in Blindness products

1-F-3
LASERS IN OPHTHALMOLOGY
Gary Michalec, COT, CRA
A One Period Course - Basic/Intermediate
Prerequisites: None
Over the past several decades, lasers have played a critical role in the field of ophthalmology. This course will discuss how lasers function as well as how they are classified. Laser safety will also be covered. Common uses of lasers in eye care will be discussed and examples shown. Future applications of lasers will also be covered.
Objectives: At the conclusion of this presentation, the participants should be able to identify different types of lasers and their uses in ophthalmology, as well as list common protocols necessary for safe operation.
CATARACT SURGERY: POST OP COMPLICATIONS
Gary Schwartz, MD
A One Period Course: Basic / Intermediate / Advanced
Prerequisites: None
Although cataract surgery is one of the safest procedures performed today, complications do occur from time to time. Often the recognition of the complication and timely institution of the appropriate treatment can be the difference between good long term vision and bad. This course will present both the common complications occurring after cataract surgery, and the appropriate treatment regimens to minimize vision loss from them.
Objectives: Upon conclusion of the course the participants should be able to list the most common complications after cataract surgery and discuss treatment for them.

THESE GLASSES MAKE ME SEASICK!
Gary Schwartz, MD
A One Period Course – Intermediate / Advanced
Prerequisites: Proficient in refractive skills
As we’re well aware, not every patient will be satisfied with a new pair of glasses. Sometimes it’s because we got the refraction wrong. Sometimes the problems are medical, such as cataract, macular degeneration, or diabetic retinopathy. Other times, the trouble resides in how the eyeglasses were made- bifocal segments or optical centers may be placed improperly. In this course, we will learn both how to approach the patient who doesn’t like his glasses, and what we can offer to make things better.
Objectives: Upon completion of this course, the student will be able to identify problems that patients may be experiencing with their glasses and how to correct those problems.
1-F-6
TIPS FOR MAXIMIZING CORNEAL TOPOGRAPHY AND TOMOGRAPHY
Sherman Reeves, MD
A One Period Course – Intermediate/ Advanced
**Prerequisites:** Clinical experience using corneal topography or tomography systems
This course will present the basic principles and interpretation of corneal topography and corneal tomography. Case examples will be used to illustrate the diagnosis of commonly encountered corneal diseases with these imaging modalities
**Objectives:** Upon completion of the course, the participants should be able to:
1. Describe the differences, strengths, and weaknesses of commonly used corneal topography and tomography systems
2. Recognize common corneal disease patterns in topographic and tomographic images

2-F-1
BASIC DSEK- DESCEMET’S STRIPPING ENDOTHELIAL KERATOPLASTY
Omar Awad, MD
A One Period Course – Intermediate
**Prerequisites:** Knowledge of ocular anatomy
This course will discuss the basics of corneal anatomy and physiology and conditions which can lead to endothelial failure and corneal decompensation. The history and evolving current methods of endothelial keratoplasty will be discussed
**Objectives:** Upon completion of the course, the participants should be able to:
1. Identify appropriate candidates for DSEK
2. Understand the pre-operative, and post-operative care of patients undergoing DSEK surgery
2-F-2
NUTRITION AND THE EYE
Leslie A. Kopietz, MD
A One Period Course – Basic
Prerequisites: None
The relationship of diet and supplements to eye health will be discussed
Objectives: At the completion of this course the participants should be able to describe:
1. The effects of vitamin A deficiency on the eye
2. The components of AREDS vitamins
3. The role of antioxidants in eye health

2-F-3
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. The course will discuss the evaluation, diagnosis, and management of these diseases as well as the underlying pathophysiology of these diseases.
Objectives: Upon completion of the course, the participants should be able to:
1. Understand the evaluation and treatment of the common ocular causes of chronic vision loss
2. Understand the underlying pathophysiology of the common ocular diseases causing chronic vision loss

2-F-4
THE ROLE OF LASERS IN CATARACT SURGERY
Bryan Lee, MD
A One Period Course – Basic
Prerequisites: None
New studies are showing that there is a new approach to cataract surgery that may improve it over today’s standard procedure. The new approach using the femtosecond laser for cataract surgery will be discussed in this lecture.
Objectives: At the end of the course the attendee will be able to discuss the latest information about the femtosecond laser in cataract surgery.
2-F-5
COMMON DISORDERS OF THE EYE
Scott Uttley, MD
A One Period Course – Basic/Intermediate
Prerequisites: A basic understanding of ocular anatomy
Whether you are beginning your career as a technician or would just like a good review, this course will present the most common disorders of the eye. The course will describe the presentations, symptoms, and treatments for the most common eye disease which affect the eye, eye-lid and orbit. A series of photographs will be presented in order to allow the participant to better recognize specific eye conditions. In addition, an emphasis will be placed on recognizing eye disorders which are vision threatening and require immediate evaluation.
Objectives: Upon completion of this course the attendees should be able to:
1. Recognize several eye disorders and name the area of the visual system which is affected
2. List the symptoms and treatment for the most common eye disorders
3. Recognize the signs and symptoms of the eye disorders which are vision threatening and require urgent attention.

2-F-6
TUBES, TRABS, AND OTHER TRICKS
Patrick Riedel, MD
A One Period Course – Intermediate/Advanced
Prerequisites: None
This course will review the current surgical treatments for glaucoma, including trabeculectomy, tube shunts and several newer innovative techniques for lowering intra-ocular pressure. FDA and non FDA approved devices will be reviewed in detail.
Objectives: At the end of the course, the attendee should be able to better understand which patients and what specific glaucoma conditions are treated with trabeculectomy versus tube shunts. In addition, the attendee should have a clear understanding of why newer techniques and technologies/devices are necessary in our battle against glaucoma.
3-F-1,2
PRISM IN OPHTHALMIC LENSES
Richard Wohlever, ABOM
A TWO Period Course - Intermediate/ Advanced
Prerequisites: Basic understanding of common algebraic math principles
The lecture will start with the basic description of what a prism is, how prism amount is determined and what factors affect prism thickness and weight. Steps to verify and neutralize prism with the lensometer will be presented. Determining prism amount for common ophthalmic situations will be discussed.
Objectives:
1. Identify the reference points of prism
2. Draw the image and object location of a prism
3. Calculate prism amount using Prentice’s Rule
4. Determine vertical and horizontal direction of prism
5. List the steps to verify and neutralize prism
6. Calculate slab - off correction

3-F-3
TECHNICIANS AND THE ANATOMY OF INFLAMMATORY EYE DISEASE
Dianna Graves, COMT
A One Period Course - Intermediate/ Advanced
Prerequisites: Anatomy of the eye, anatomy of the body
This course will discuss the anatomical eye changes that can occur in systemic/ eye inflammatory diseases. These changes can affect the surrounding tissues of the eyes, as well as the eyeball proper. Performing the right technical eye exam when the patient arrives in the office is key to giving your doctor the information they will need to help the patient. For example” ensuring to do a pupil examination of a iritis patient prior to dilation so you do not “hide” a slow pupillary response. And which eye should or should not be dilated prior to seeing the doctor, versus the eyes that they will want to see “untouched”. We will also discuss various tests your doctor may order on the patient and what type of clinical work up you will need to do for these patients.
Objectives:
1. Discuss the anatomical differences between scleritis, episcleritis, iritis and uveitis
2. Discuss the test your doctors may order to aid in the diagnosis process (FANA, HLB-27, ANA, and ANCA)
3. Discuss the eye exam needed for these patients ( ie: why dilate some and not others)
MOM WAS RIGHT! YOU REALLY WILL PUT YOUR EYE OUT WITH THAT!
Dianna Graves, COMT
A One Period Course- Basic/Intermediate

Prerequisites: Anatomy of the eye, Basic clinic skills

40% of serious eye injuries occur in the home from any number of house-
hold/ recreational, sporting or accidental reasons. Accidents involving
common household products cause 125,000 eye injuries a year! It is im-
portant that the Front Desk, Technicians and Phone Center work together
as a team to determine the urgency of the initial call, what potential
pre-office steps should be advised (ie: flushing the eye if chemicals are
involved) and then how to expedite the care/exam in the office to ensure
that the doctor has all the equipment/ information needed (chemical
name, %, pH) to perform the “right” exam and care. We will discuss how
to flush the eye, when and if your doctor will be patching the eye, types of
tips to ensure that you have office protocols for each

Objectives: At the end of the class the student should be able to:
1. Identify common “household” injuries and what the BASIC First
   Aid recommendations should be prior to arriving in clinic
2. Discuss how to check for normal eye pH
3. Discuss the appropriate technical work up for each “type” of
   injury

3-F-5
OPHTHALMOLOGY PALEONTOLOGY
Dianna Graves, COMT
A One Period Course - Basic

Prerequisites: Basic clinic skills, Patient interaction

Working in the patient care field can be very difficult for a number of
reasons: often, patients can’t tell us what is wrong with them, don’t fol-
low the directions we give them and the healthcare system is difficult for
the staff and patient to navigate. Patient complaints are on the rise and
include: rudeness of the staff, staff/ MD arrogance or “attitude”, poor
communication skills and lack of compassion. Creating the right team
to work this environment is difficult. Knowing the “traits” of (4) staff
(dinosaur) “types” can help create a strong office workforce to ensure
that the patient receives an excellent exam, and your doctor has the work
environment to properly care for their patients.
Objectives: At the end of this course the participant should be able to:
1. Identify pitfalls that occur in their office that can lead to a poor patient experience (long wait times, poor communication and how these situations happen)
2. Identify the (4) “types” of employees in the office: TReX, Jr TReX, Velociraptor, and Brontosaurus and how they work or don’t work together in your office.
3. Discuss examples of common patient complaints and how to turn them into patient “successes” versus “complaints”.

3-F-6
DIABETIC MANAGEMENT
Vaughn Emerson, MD
A One Period Course - Intermediate
Prerequisites: None
This course will identify the current management options and describe how they address the pathophysiology of diabetic retinopathy in treating macular edema and proliferative retinopathy. Special attention will be paid to laser photocoagulation, steroid and non steroidal antiinflammatories, and anti-VEGF (vascular endothelial growth factor) agents.
Objectives: Upon completion of this course the attendees should be able to:
1. Describe the pathophysiology of diabetic retinopathy
2. Identify the treatments available for diabetic retinopathy
3. Construct a management algorithm for patients with diabetic retinopathy

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4-F-1,2A
BASIC OCULAR ANATOMY
Mark Kapphahn, OD
A 1.5 Period Course - Basic
Prerequisites: None.
This basic course will cover the anatomy of the eye. We will discuss the structure and function of the eye and its relationship to surrounding structures such as the eyelids, orbit, and muscles. Also included will be some recognizable disorders associated with trauma to or abnormalities of the anatomical features of the eye.
Objectives:
1. Recognize a normal eye.
2. Describe the structure and function of the eye, eyelids, orbit and muscles.
3. Recognize some disorders of the normal anatomy of the eye.

4-F-3
HOW THE AMAZING CORNEA HEALS AFTER LASER REFRACTIVE SURGERY
Mark Lobanoff, MD
A One Period Course - Intermediate/ Advanced
Prerequisites: Understanding of corneal anatomy
This course will discuss the differences between PRK and LASIK; how these procedures effect the cornea and how patient results and healing differ. Mitomycin use and dry eye results for these procedures will also be reviewed.
Objectives: At the end of this course the participants should be able to:
1. Discuss patient healing in each surgery
2. Describe the difference between PRK and LASIK procedures

4-F-4
MS AND THE EYE
Timothy Diegel, MD
A One Period Course: Intermediate/Advanced
Prerequisites: None
This course will include a review of the general characteristics of multiple sclerosis. The eye findings in MS, especially optic neuritis and extracocular muscle abnormalities will be discussed. The office tests which are performed for MS pathology will be described. Recent recommendations for treatments and the prognosis will be presented.
**Objectives:** Upon completion of this course the participants should be able to:

1. List general characteristics of multiple sclerosis
2. Describe eye findings in multiple sclerosis
3. Perform ophthalmic eye tests for abnormalities found in multiple sclerosis

**4-F-5**
VITAMIN D AND THE EYE
Timothy Diegel, MD
A One Period Course - Intermediate/Advanced

**Prerequisites:** None
This course will review new information about the importance of Vitamin D. There is now an explanation of why MS and other cancers are more prevalent in certain parts of the U.S and Europe.

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

1. Describe the basic chemistry of Vitamin D
2. Explain the importance of sun exposure to the immune system
3. Identify the various diseases, including eye diseases, related to low Vitamin D levels.

**4-F-6**
BASICS FOR THE PEDIATRIC EXAM
Anna deMelo, CO; Katherine Hogue, CO
A One Period Course- Intermediate/Advanced

**Prerequisites:** Understanding ocular motility
This course will give tips and show tricks for getting an eye exam on young children, difficult patients, and delayed adults. We will show the types of test that should be used during the exam of most common eye disorders seen in pediatric clinics such as: strabismus, nystagmus and amblyopia.

**Objectives:** At the completion of the course, participants should be able to describe tests used for patients with nystagmus and amblyopia as well as discuss “tricks” for getting an eye exam on young children.
1-SA-1
DERMAL FILLERS AND BOTOX
Nicholas Schmitt, MD
A One Period Course - Intermediate/Advanced
Prerequisites: None
This course will discuss the facial aging process and the indications for non-surgical cosmetic enhancement with dermal fillers and Botox. Various cases will be discussed with before/after photos.
Objectives: Upon completion of the course, the student should be able to:
1. Identify multiple non-surgical cosmetic options for patients
2. Describe the uses for these non-surgical cosmetic options

1-SA-2
AGE RELATED MACULAR DEGENERATION
Polly Quiram, MD
A One Period Course - Intermediate
Prerequisites: None
This course will discuss current knowledge and treatments of wet and dry macular degeneration. Pathophysiology of disease, established therapies, current clinical trials and potential new therapies will be discussed.
Objectives: After this lecture, the attendee will be able to:
1. Describe current concepts of ARMD pathophysiology and treatment
2. Discuss current clinical trials and evolving therapies for both wet and dry macular degeneration

1-SA-3
PATIENT WITH DIPLOPIA- EVALUATION AND DIAGNOSTIC CONSIDERATIONS
Keith Carlson, MD, MMM FACS
A One Period Course: Intermediate/Advanced
Prerequisites: None
This course will review the most common presentations of diplopia in the clinic. The major etiologies of diplopia will be discussed as well as treatment options for these conditions.
Objectives: Upon completion of the course, the participant should be able to:
1. Understand the major ophthalmic presentations of diplopia
2. Identify the major etiologies of diplopia.
3. Discuss treatment options
SUPPRESSION AND AMBLYOPIA
Evan Ballard, MD

A One Period Course – Basic/ Intermediate
Prerequisites: None
This course will address the ways in which suppression develops in the human visual system and describe its role as an adaptive adjustment. The clinical methods of detecting and measuring the extent of suppression scotomas will be presented. The course will also discuss the mechanisms by which suppression becomes entrenched as amblyopia and how amblyopia may be distinguished from other causes of visual loss. Finally, the therapeutic options available for the treatment of amblyopia.

Objectives: Upon completion of this course the participant will be able to
1. Describe the causes of suppression of vision in the developing eye
2. List methods of detecting and measuring suppression scotomas
3. Identify the characteristics of amblyopia
4. Describe multiple methods of treating amblyopia

OCULAR EFFECTS OF PEDIATRIC BRAIN TUMORS
Evan Ballard, MD
A One Period Course-Intermediate
Prerequisites: A basic knowledge of visual pathways is helpful
The 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 the course the participant should be able to:
1. List the most common brain tumor types in children
2. Correlate the visual field with tumors at various locations in the visual pathway
3. List methods of diagnosis and treatment of brain tumors that affect vision
4. Discuss the effects of tumors on eye muscle balance
1-SA-6
MICRO-INCISION CATARACT SURGERY (MICS): MODERN TECHNIQUES IN LENS REPLACEMENT
David Folden, MD
A One Period Course - Intermediate
Prerequisites: Basic understanding of cataract surgery
This course will discuss micro-incision cataract surgery (MICS) and discuss the advantages of surgery through sub-2 millimeter incisions.
Objectives: Upon completion of this course, the participants should be able to do the following:
1. Define micro-incision cataract surgery (MICS)
2. Understand the added safety of MICS with attention to intra-operative ocular stability and reduced corneal trauma
3. Understand the refractive advantages of MICS in relation to astigmatic neutrality and reduced higher-order aberrations
4. Identify higher risk patients (i.e. previous radial keratotomy, Flomax use, etc) that would particularly benefit from MICS.

2-SA-1
CATARACT SURGERY AFTER REFRACTION SURGERY
David Hardten, MD
A One Period Course - Advanced
Prerequisites: Understanding and knowledge of refractive surgery procedures
This lecture will discuss an issue that becomes more common with each year, that of cataract surgery in patients with prior refractive surgery. Not only are the patient expectations higher than the typical cataract patient, as they expect more from their uncorrected visual acuity, but also the calculations are less accurate.
Objectives: After this lecture, the attendee will be able to:
1. State the reasons why there are problems with the accuracy of IOL calcs after Refractive Surgery
2. Relay methods to improve the accuracy of IOL calculations after Refractive Surgery
2-SA-2
REFRACTIVE GRAND ROUNDS
David Hardten, MD
A One Period Course - Advanced
Prerequisites: Understanding and knowledge of LASIK corneal topography, A-scan/IOL Master, intraocular lenses and Phakic IOLs. Challenging cases in refractive surgery will be presented with use of video and audience participation.
Objectives: Upon completion of the course, the student should be able to:
1. Identify patients who are the best candidates for intraocular refractive surgery
2. Identify patients at higher risk for LASIK complications
3. Describe the choices in refractive surgery currently available for presbyopia
4. Describe how to choose a presbyopic implant to match a patient’s lifestyle
5. Explain the difference between microkeratome and laser created LASIK flap

2-SA-3
RETINAL DETACHMENTS
John Davies, MD
A One Period Course - Intermediate/Advanced
Prerequisites: None
The objectives of this course are to review the pathophysiology and treatment of rhegmatogenous retinal detachments and other conditions such as posterior vitreous detachment, lattice degeneration, and retinal tears. Basic principles guiding management will be discussed. Surgical techniques such as laser retinopexy, cryo retinopexy, scleral buckle surgery, pars plana vitrectomy and pneumatic retinopexy will be described in detail, in addition to the relative risks and benefits of the various approaches. Surgical videos will be included in the presentation to highlight the above points. An overview of the decision making behind the choice of a specific treatments will be presented, and recent trends in contemporary management will be explored.
Objectives:
1. Describe surgical techniques used for retinal detachment repairs
2. Describe retinal detachments and other conditions that occur in the retina
2-SA-4
GETTING READY FOR PREMIUM IOLS
Bill Ganzer, BS
A One Period Course - Intermediate
Prerequisites: Knowledge of refractometry, biometry, history taking, keratometry and slit lamp skills.
As the population ages and baby boomers start to reach retirement age the ophthalmic technicians will be called upon to work up patients both pre and post operatively that will have accommodating and multifocal intraocular lenses implanted. This course will discuss the changes in the market and skills that will needed to satisfy this patient population’s expectations.
Objectives:
1. Identify how accommodation functions in the phakic patient
2. Differentiate between various “premium” intraocular lenses presently on the market
3. Compare and contrast the benefits of accommodating and multifocal IOL’s
4. Compare present day pre and post-operative patient work up techniques with “premium” IOL pre and post-operative patient work up techniques
5. Identify “premium” intraocular lenses that are in the pipeline

2-SA-5
YOU WANT ME TO DO WHAT?
Geri Jewell, COT
A One Period Course- Basic
Prerequisites: None
This course will discuss through visual and case presentations the variety of questions, triage and testing that needs to be done in order to meet the needs of the purpose of the visit for each patient being seen in the clinic. Examples of the various appointment types will be covered as well as a variety of different scenarios representing the changes in testing and questions that need to be obtained depending on how the patient drives the exam. Careful consideration will also be given to coding, documentation, and obtaining proper testing. Case examples will be presented to aid in understanding.
Objectives: Upon completion of the course, the participants should be able to:
1. Obtain a clear, concise chief complaint
2. Obtain necessary testing needed for the ophthalmologist to make a diagnosis
3. Problem shoot through various exams to ensure the testing obtained is useful

3-SA-1
KERATOCONUS FITTING TECHNIQUES
Jason Jedlicka, OD, FAAO
A One Period Course - Basic/ Intermediate

Prerequisites: A basic understanding of ocular anatomy
This course will cover the topographical variations of keratoconus and how different types of contact lens designs lend themselves to the types of keratoconus and basic fitting concepts for fitting each type of lens.

Objectives: Upon completion of this course the attendee will:
1. Gain an understanding of the many presentations of keratoconus from a topographical perspective
2. Gain an understanding of how different types of contact lenses work better for certain types of keratoconus better than others and how to choose a direction for contact lens fitting based upon the type of cone.
3. Learn basic fitting concepts for soft, hybrid, cornea GP and scleral GP lens fitting for keratoconus as well as piggybacking.
3-SA-2
OCULAR MANIFESTATIONS OF DIABETES
Susan Quick, MD
A One Period Course - Basic/Intermediate
Prerequisite: A basic understanding of ocular anatomy
This course will review the basics of diabetic retinopathy. The diagnosis, treatment, and management of diabetic retinopathy will be covered, including various lasers and intraocular injections.
Objectives: At the conclusion of this course the student will be able to:
1. Describe how diabetes affects the eye
2. Understand the progression and various types of diabetic retinopathy
3. Identify the various treatments used for the different types of diabetic retinopathy

3-SA-3
TONOMETRY: FUNDAMENTALS OF INTRAOCULAR PRESSURE MEASUREMENT
Kim Pickett, COMT
A One Period Course - Basic
Prerequisites: None
This course will discuss the principles of intraocular pressure by using the following methods of measurement, applanation, indentation, and pneumo-tonometry. Types of measurement include: Goldmann, Schiotz, Pneumotonometer, and Tonopen. Emphasis will be on Goldmann. Included in the lecture will be calibration of instruments, cleaning of equipment and general overview of the anatomy involved with measurement.
Objectives:
1. Discuss the concepts of applanation, indentation and pneumo-tonometry
2. Explain the differences in Goldmann, Perkins, Schiotz, and pneumo-tonometry
3. Explain the proper sterilization techniques for each tonometer mentioned
3-SA-4
FLUORESCEIN ANGIOGRAPHY & OCT—"SISTERS FROM DIFFERENT MOTHERS"
Holly Cheshier, COT, CRA, OCT-C; Julie Wigren, CRA, COT, OCT-C
A One Period Course: Intermediate/Advanced
Prerequisites: Basic knowledge of ocular anatomy, fluorescein angiography, and OCT
This course will give basic knowledge and understanding of descriptive patterns of fluorescein angiograms in different pathologies while comparing it with OCT analysis to establish better understanding of different diseases of the retina. We will also cover tips to get around media opacities with the two instruments.
Objectives: Upon completion of the course, the participant should be able to:
1. Describe phases and patterns of a fluorescein angiogram
2. Describe pathology from OCT analysis
3. Be able to work around difficult media using the two instruments

3-SA-5
EYE BANKING RECOVERY AND PROCESSING
Conor Johnson; Natalie Buckman, Minnesota Eye Bank
A One Period Course: Basic
Prerequisites: None
This course will provide an overview of the procedures for procurement/recovery and preservation of eye tissue used in eye banking today.
Objectives: At the end of the course the participants should be able to:
1. Explain the process of enucleation from an eye donor
2. Understand insitu recovery, the most common method of corneal procurement/recovery for transplant
3. Describe cornea and sclera preservation in the lab
3-SA-6
EXAM ROOM PEARLS BETTER PATIENT CARE STARTING MONDAY MORNING
Jeff Peterson, OD
A One Period Course: Basic
Prerequisites: Basic refractometry skills
A fast-paced hour of learning exam room Pearls that help this optometrist get through his day efficiently and with superior patient care. Topics include rooming, refractions, slit lamp, translators and managing various kinds of patients and exam room issues. Some time will be reserved for sharing your pearls with others.
Objectives: The goal of this course is that every 5-10 minutes of the presentation you will learn a least one procedure or idea to put into practice starting Monday morning.

4-SA-2A,3
SLIT LAMP: BASIC PRINCIPLES
Britt Mitchell, OT
A 1.5 Period Course -Basic
Prerequisites: None
This course will present the basic knowledge necessary for understanding the operation of the slit lamp. With the use of HD video projected onto a HD screen you will be able to view the eye, observe the illumination and angles used for slit lamp exams.
Objectives: Discuss and demonstrate the character and use of the slit lamp microscope, methods of illumination, and accessory devices associated with the slit lamp microscope.
4-SA-4,5A
LIVE, ON THE BIG SCREEN- PLUS CYLINDER REFRACTION
Brit Mitchell, OT
A 1.5 Period Course - **Basic**

**Prerequisites:** Basic knowledge of optics, with the desire to get your hands on the phoropter and run with it. Open for first time users, and those wanting to “tweak” their technique.

If you are one of those “visual learners” wanting to expand your knowledge of the use of the phoropter, you’re going to enjoy this course. We will be placing a HD video camera on the phoropter and projecting the image onto a HD screen. You will be able to see “live” the sequence of lens changes made for each simulated patient response. We will cover the different starting points for spherical and astigmatic refractions. This will be followed by refinement techniques and clinical “pearls’ that will help you to come to a final refractive outcome. Participants are encouraged to bring in clinical optic scenarios to discuss and attempt to resolve.

**Objectives:**
1. Describe the parts of the phoropter
2. List the proper steps in performing plus cylinder refractometry

5-SA-1
DON’T BE SCARED ITS JUST OPTICS
Andy Winters, COMT, ABOM
A One Period Course: **Basic**

**Prerequisites:** Basic refractometry skills

This is a course covering basic optical concepts from vergences through ammetropias and how we correct for them with the use of optical lenses.

**Objectives:** At the end of the course the participants will be comfortable with basic optical concepts and will understand how to correct for them.
5-SA-2,3
WHAT YOU CAN DO TO MAKE A HVF REPORT ACCURATE
Yvonne Liu- Lakedon, COMT
A TWO period course - Basic/ Intermediate
Prerequisites: None
The course will explain HVF terminology and discuss the HVF tests (24-2, 30-2, 10-2, Superior 36 and FF-120). The set up for testing including choosing the fixation target, choosing the trial lenses for use will be explained. Some testing tips will also be shared with the participants.
Objectives: At the end of the course the participants will be able to:
1. Describe the difference between the HVF tests discussed
2. Describe how to choose the correct fixation target
3. Describe how to choose the correct trial lenses for the test

6-SA-2,3
INTRODUCTION TO PLUS CYLINDER RETINOSCOPY
Andy Winters, ABOM, COMT
A Two Period Course - Basic
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 functioning of the streak retinoscope
3. Describe the various types of behaviors of the retinoscopic results and transpose those results into optical terms

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6-SA-4 & 6-SA-5 TONOMETRY WORKSHOP
Kim Pickett, COMT; Dean Lins, COMT, A One Period Course - Basic (limited to 12 participants)
Prerequisites: Attendance in 3-SA-3 lecture This workshop will provide the foundation for performing tonometry using a variety of instruments including the Goldmann, Schiotz, and Tonopen. It will also demonstrate instrument maintenance. Intraocular simulators will be used.
Objectives:
1. Describe each instrument used and the difference in techniques
2. Discuss the problems /solutions for each tonometer mentioned
3. Discuss proper cleaning /sterilization and maintenance for each tonometer

1-SU-1 DRY EYE: A SYSTEMATIC APPROACH
Chris Schnelle, OD
A One Period Course- Intermediate
Prerequisites: A basic understanding of ocular anatomy
This course is designed to create an orderly approach to the confounding disease of dry eye. It will include a basic outline of dry eye disease, its subtypes, the associated anatomy, and the diagnostic tools available to accurately and successfully serve patients' needs. A detailed description of the specific aspects of dry eyes and patient experiences will be systematically arranged to create patients' specific pathways that indicate the appropriate testing and potential treatments that patients may receive.
Objectives:
1. Describe the different types of dry eye and the most associated symptom
2. Describe and list systemic conditions and medications associated with dry eye syndrome
3. Explain the primary focus of dry eye diagnostic testing
1-SU-2
CURRENT CONCEPTS IN CORNEAL TRANSPLANTATION; PK, DSAEK, DALK
Sanaz Afiat, MD
A One Period Course- Intermediate/ Advanced
**Prerequisites:** Basic understanding of 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 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 this course the attendee will be able to;
1. Describe the difference between PK, DSEK, DALK
2. Name the basic advantages of each procedure

1-SU-3
THE BASICS OF LOW VISION
Kris Fey, COMT
A .75 Period Course- Basic
**Prerequisites:** None
This course will serve as an introduction to low vision. The most common causes of low vision will be discussed, as well as how low vision affects the lives of the people who have it. Services available for these patients will also be described and highlighted.
**Objectives:** Upon completion of this course the attendees should be able to:
1. Define low vision
2. List multiple causes of low vision
3. Suggest low vision aids or services for low vision patients
3-SU-1,2
PLUS CYLINDER RETINOOSCOPY WORKSHOP
Andy Winters, COMT, ABOM, et al
A One Period Course - Basic - (limited to 32 participants)
Prerequisites: Participants will be required to provide their own retinoscope and 2 charged batteries while in this course. Course 6-SA-2,3 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-SU-1 & 4-SU-2 & 4-SU-3
SLIT LAMP WORKSHOP
Bonny Hunt, COMT, et al
A One Period Course - Basic - (Limited to 9 participants)
Prerequisites: Attendance in Course 4-SA-2A,3
This workshop will provide the participant with the opportunity for hands on experience with the slit lamp microscope
Objectives:
1. Describe the character and use of the slit lamp
2. Identify the different methods of illumination
3. Identify the accessory devices used with the slit lamp
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| Lunchtime: 12:00-1:00 | Included with Registration |

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New Course Offering
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<th>Time</th>
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<td>Current Concepts in Corneal Transplantation</td>
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<td>(11:00-11:45)</td>
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<td>WOOD DUCK POND</td>
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**Prerequisite for Slit Lamp Workshops**

**Course 4-SA-2A,3**

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**New Course Offering**

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**Sunday, May 20, 2012**
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 M.I LAST

Home Address_______________________________________

City___________________________________ State__________ Zip_____________

E-mail Address_____________________________________

EMPLOYER INFORMATION

Name of Employer ____________________________________________

Business Address___________________________________________

City_______________________________________ State _______ Zip ________

Business Telephone_______________________________ Fax:________________

1. Which category best describes your professional activities? (check all that apply):

☐ Clinical/Diagnostic Testing ☐ Optical
☐ Front Office ☐ Nursing
☐ Surgical ☐ Office Admin.
☐ Ophthalmic Photography

2. Are you JCAHPO Certified: Yes □ No □

3. If yes, level of certification:

COA ___ COT ___ COMT ___ CCOA ___

4. Have you previously attended this meeting? Yes □ No □

Complete Course Ticket Order Form on Reverse Side
# SELECTION OF COURSES

**Registrant:**

**MULTIPLE PERIOD COURSES CANNOT BE DIVIDED**

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</table>

*Did you remember to write your name at the top?

To obtain lowest registration fee, mail on or before April 27, 2012.
Check 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:**

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<td>10+</td>
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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