“Now in its second year, the Eye Institute’s Advanced Ocular Imaging Program is comprised of clinicians, vision scientists, biomedical engineers, optical engineers, geneticists, and biophysicists from the Medical College of Wisconsin, Marquette University and the University of Wisconsin-Milwaukee. Members work together to improve the sensitivity of clinically available ocular imaging devices, forge new pathways in imaging applications to complement emerging treatments, and partner with industry to develop tools specific to the needs of translational vision science. The Advances in Ocular Imaging Symposium is an opportunity to expand our reach and enhance opportunities to collaborate.”

Joseph Carroll, PhD  Judy E. Kim, MD  Kimberly E. Stepien, MD

The symposium organizers would like to thank our generous supporters:

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Medical College of Wisconsin Department of Ophthalmology
Advanced Ocular Imaging Program

Medical College of Wisconsin Clinical and Translational Science Institute (CTSI)
Program Agenda
Medical College of Wisconsin Health Research Center Auditorium
8701 Watertown Plank Road | Milwaukee, WI 53226
Free event parking on 87th Street across from the College
Posters, Lunch and Breaks to be held in HRC Room 1210
Exhibitors outside HRC Room 1210

7:00  Registration and Breakfast
7:45  Welcome Remarks
7:50  Basics of Ophthalmic Imaging: A Tutorial
     Alfredo Dubra, PhD
8:10  Optical Coherence Tomography: A Primer
     Joel S. Schuman, MD, FACS
8:30  Smart Ophthalmic Imaging and Image Processing - How To Get More Out of Your Images
     Sina Farsiu, PhD
8:50  Imaging in Glaucoma: Interpretation, Management and How-To
     Joel S. Schuman, MD, FACS
9:10  Break
9:45  Amini Lecture: OCT Pearls and Pitfalls
     Glenn J. Jaffe, MD
10:00 Imaging Biomarkers in Age-Related Macular Degeneration
     Sina Farsiu, PhD
10:40 Retinal Imaging in the Management of Diabetes
     Judy E. Kim, MD
10:55 Imaging in the Management of Pediatric Disorders
     Deborah M. Costakos, MD, MS
11:10 Imaging in Ocular Genetic Diseases
     Kimberly E. Stepian, MD
11:25 Adaptive Optics Imaging: Rods, Cones, Ganglion Cells, and More
     Alfredo Dubra, PhD
11:50 Imaging Retinal Development in Human Albinism
     Joseph Carroll, PhD
12:05 Discussion
12:30 Lunch and Discussion
1:40  Corneal Imaging Techniques: Refractive Surgery Applications
     Michael Twa, OD, PhD
2:00  Applications of Ultrasound Biomicroscopy
     William J. Wirostko, MD
2:15  Multimodal Ophthalmic Imaging and Beyond
     Hao F. Zhang, PhD
2:30  Functional Retinal Imaging in Health and Disease
     Amani A. Fawzi, MD
2:50  An Imaging Approach to the Management of Neuro-Ophthalmic Disorders
     Sang H. Hong, MD
3:05  Retinal Manifestations of Neurological Disorders
     Douglas A. Woo, MD
3:20  Discussion
3:35  Break
3:45  OCT Hands-On Workshop
5:15  Evaluation and Adjournment
Guest Speakers

Amini Lecturer
Glenn J. Jaffe, MD
Professor of Ophthalmology
Duke University Eye Center

Alfredo Dubra, PhD
Assistant Professor of Ophthalmology and Biomedical Engineering
University of Rochester

Sina Farsiu, PhD
Assistant Professor, Department of Ophthalmology and Department of Biomedical Engineering
Duke University Eye Center

Amani A. Fawzi, MD
Assistant Professor of Ophthalmology
Doheny Eye Center

Joel S. Schuman, MD, FACS
Professor and Chairman of Ophthalmology
Director of UPMC Eye Center

Michael Twa, OD, PhD
Assistant Professor
University of Houston College of Optometry

Hao F. Zhang, PhD
Assistant Professor of Engineering
University of Wisconsin - Milwaukee

Medical College of Wisconsin Speakers

Joseph Carroll, PhD
Associate Professor
Department of Ophthalmology

Deborah M. Costakos, MD, MS
Assistant Professor
Department of Ophthalmology

Sang H. Hong, MD
Assistant Professor
Department of Ophthalmology

Judy E. Kim, MD
Professor
Department of Ophthalmology

Kimberly E. Stepien, MD
Assistant Professor
Department of Ophthalmology

William J. Wirostko, MD
Associate Professor
Department of Ophthalmology

Douglas A. Woo, MD
Assistant Professor
Department of Neurology
Registration:

To register, please visit http://www.mcw.edu/fallalumnisymposium.htm and pay online or print and complete the PDF form for mail-in registration.

Registration before September 1, 2010: $100.00 ($50 student rate*)
After September 1, 2010: $150.00 ($75 student rate*)

*Students, Residents, Fellows

Registration fees are non-refundable.

For comments/special needs, please call (414) 456-7842, or email hwaagen@mcw.edu

**Symposium Intent and Overview:** The educational goal of this program is to enhance the development of practicing health care professionals by providing high quality educational activities that impart new knowledge and teach new skills. In particular, this meeting is designed to bring together clinicians and basic scientists who share a common interest in the development and application of a diverse array of ocular imaging technology. The proposed curriculum is designed to provide attendees with a summary of research advances in adult and pediatric imaging for retina, glaucoma, anterior segment, neuro-ophthalmology, and orbit. In addition, the practical clinical application of various imaging modalities will be discussed.

**Learning Objectives:** Upon completion of the program, participants should be able to:

1. Review advances in ocular imaging techniques for research and clinical use
2. Develop an understanding of techniques for image processing
3. Discuss imaging in glaucoma, retinal disease, oculoplastics, corneal pathologies and neuro-ophthalmology
4. Review of the latest developments in imaging technology and how this technology may improve disease management and patient outcomes

**Target Audience:** This scientific program is designed for practicing ophthalmologists, subspecialty ophthalmologists, optometrists, ophthalmology residents and fellows, medical students, graduate students, postdoctoral fellows, vision scientists, ophthalmic photographers and ophthalmic technicians.

**Accreditation:** The Medical College of Wisconsin is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

**Designation of Credit Statement:** The Medical College of Wisconsin designates this educational activity for a maximum of 7.75 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**JCAHPO Credit Statement:** This course has been awarded 6.75 JCAHPO credits, defined as follows: 2 contact hours = 1 B credit for COAs, CCOAs and COTs, 1 contact hour = 1 B credit for COMTs. This course is not sponsored by JCAHPO; only reviewed for compliance with JACHPO 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.

**OPS Credit Statement:** This program has been approved for 6.75 1:1 OPS CECS by the Ophthalmic Photographer's Society.
LODGING:

CROWNE PLAZA HOTEL
Milwaukee West
10499 Innovation Drive
Wauwatosa, WI 53226
Hotel Front Desk (414) 475-9500 or (877) 227-6963
MCW has negotiated a special rate of $89.00 per night for this event. Call the hotel directly and mention you will be attending this meeting at MCW to receive the rate. Shuttle service to MCW is available from the hotel.

SPECIAL NEEDS:
If you have any special needs pertaining to your participation, please contact us at (414) 456-7842 or email hwaagen@mcw.edu to discuss how we can accommodate you.