

Judges

Charlotte M. Agnone, M.D., F.A.C.S.
Kenneth A. Boyle, M.D.
Frederick Kapetansky, M.D.
Kevin G. Kegler, M.D.

Conference Registration Fees

There is no charge to attend the symposium.

Awards and Recognition Banquet

Fees to attend the reception and dinner at the Faculty Club will be \$70 per couple, and \$35 per single registration. The Faculty Club is located at 181 South Oval Drive. A cash bar reception will be held at 6 p.m., and dinner will be served at 7 p.m.

Funds for the ophthalmology research awards presented at the 2006 Ohio State University Ophthalmology Research Symposium were provided through the Eli G. Alcorn and John B. Alcorn Prize in Ophthalmology Endowment created through gifts from the Robert F. Wolfe and Edgar T. Wolfe Foundation of Columbus and the late Dr. Eli G. Alcorn.

Registration

Please complete all sections:

Conference only Conference and dinner Dinner only

Name

Spouse/Guest

Street Address

City/State/Zip

Phone Number

Meal Choice: beef vegetarian
(please indicate the number of each)

Enclosed is \$ _____ to attend the dinner and reception at the Faculty Club.

Please make checks payable to OSU – Ophthalmology and mail to:

Trish Rebish
5251 Cramblett Hall
456 W. Tenth Ave.
Columbus, OH 43210
(614) 293-8117

Please clip and return.

Sponsor

The Ohio State University Medical Center – Center for Continuing Medical Education with the Department of Ophthalmology, the William H. Havener Eye Institute

Accreditation

The Ohio State University Medical Center is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians. The Ohio State University Medical Center certifies that this program meets the criteria for up to **4 credits** in Category I credit towards the Physician's Recognition Award of the American Medical Association. Each physician should only claim those hours of credit that he/she actually spent in the educational activity.

Disclosure Statement

As a provider of AMA Category 1 Continuing Medical Education, The Ohio State University Medical Center must ensure balance, independence, objectivity, and scientific rigor in all its individually sponsored or jointly sponsored educational activities. Faculty participating in a sponsored activity are expected to disclose to the activity audience any significant financial interest or other relationship. Disclosure statements will be provided in the course syllabus.

Department of Ophthalmology

Susan C. Benes, M.D.
Don L. Bremer, M.D.
John A. Burns, M.D.
Kenneth V. Cahill, M.D.
David Castellano, M.D.
Robert B. Chambers, D.O.
Louis J. Chorich III, M.D.
Elson L. Craig, M.D.
Marc R. Criden, M.D.
Matthew E. Dangel, M.D.
Frederick H. Davidorf, M.D.
Christopher P. dePalo, D.O.
Kelly R. Everman, M.D.
Gloria F. Fleming, M.D.
Jill A. Foster, M.D.
Deborah M. Grzybowski, Ph.D.

Annette K. Terebuh, M.D.
Timothy H. Tweitto, M.D.
Paul A. Weber, M.D.
Michael Wilkinson, M.D.

Resident Surgeons
Kathryn R. Baker, M.D.
Ryan F. Deasy, M.D.
Thomas J. Dingle, M.D.
Anne Elbiaddi, M.D.
Kristopher J. Kelly, M.D.
Amy M. Kopp, M.D.
Julie M. Lange, M.D.
Carrie A. Lembach, D.O.
J. Garret Mouser, M.D.
Matthew P. Ohr, M.D.
Nicholas A. Rogers, M.D.
Joseph J. Sinclair, M.D.
Jeffrey T. Winkco, M.D.

Graduate Students
Shelley Glimcher, B.S.
David W. Holman, B.S.

Ophthalmology Research Symposium
Planning Committee
Deborah M. Grzybowski, Ph.D.
Steven E. Katz, M.D.
Trish Rebish
Cynthia J. Roberts



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WILLIAM H.
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EYE INSTITUTE

The William H. Havener
Eye Institute Presents

2006
Ophthalmology Research Symposium

26th Annual Research Symposium
in Ophthalmology

Friday, June 23, 2006
Magnuson Conference Room
456 West Tenth Avenue

The Faculty Club
181 South Oval Drive

www.eye.osu.edu



Sponsored by The Ohio State University Medical Center –
Center for Continuing Medical Education with the Department
of Ophthalmology, the William H. Havener Eye Institute

UMC 06235

Educational Description

This course is designed to update the practicing clinician on the latest advances in ophthalmic research. Glaucoma is one of the leading causes of preventable blindness, and research will be presented related to improvements in its evaluation and treatment. The cornea provides the majority of the refractive power of the eye. Alteration of the corneal shape by various means allows improved visual performance. The retina is the fundamental sensory organ for vision, and advances in research of retinal disease will be presented. Diagnosis of neuro-ophthalmic disease is often delayed, and this may adversely affect outcomes. Advances in diagnosis and treatment of neuro-ophthalmic diseases will be presented.

12:30 P.M. Introduction and Opening Remarks

Co-Directors of Research
Steven E. Katz, M.D.
Cynthia J. Roberts, Ph.D.

12:40 P.M. Genetics of Glaucoma

Wallace L. M. Alward, M.D.
Vice-Chair
Professor of Ophthalmology
Service Director, Glaucoma Service
University of Iowa

Neuro-ophthalmology

Marc R. Criden, M.D., Moderator

1:10 P.M. Clinical Investigation of CSF and Blood Biological Mediators of Idiopathic Intracranial Hypertension – A Pilot Study

J. Garret Mouser, M.D.*
Steven E. Katz, M.D.
Deborah M. Grzybowski, Ph.D.

1:20 P.M. The Effects of All-Trans Retinol on Primary Cultures of Human Arachnoid Granulation Cells

David W. Holman, B.S.*
Steven E. Katz, M.D.
Deborah M. Grzybowski, Ph.D.

1:30 P.M. Analysis of Dietary Habits of Pseudotumor Cerebri Patients versus Obese Female Controls

Jeffrey T. Wincko, M.D.*
Steven E. Katz, M.D.
Deborah M. Grzybowski, Ph.D.

1:40 P.M. CSF Outflow, Ex Vivo Model of CSF Outflow through Human Arachnoid Granulations: Applications for Idiopathic Intracranial Hypertension (IIH)

Shelley A. Glimcher, B.S.*
David W. Holman, B.S.
Steven E. Katz, M.D.
Deborah M. Grzybowski, Ph.D.

1:50 P.M. Discussion and Questions

Glaucoma

Christopher P. dePalo, D.O., Moderator

2 P.M. Comparison of Goldman Aplanation Tonometry and Pascal Dynamic Contour Tonometry in a Glaucomatous Population

Amy M. Kopp, M.D.*
Cynthia J. Roberts, Ph.D.
Roger D. Johnson, B.S.
Paul A. Weber, M.D.

2:10 P.M. A Comparison of IOP Measurements in Pre- and Post-Trabeculectomy Patients Using Different Measurement Instruments

Anne Elbiaadi, M.D.*
Cynthia J. Roberts, Ph.D.
Gloria P. Fleming M.D.
Jared D. Peterson, B.S.
Paul A. Weber, M.D.

2:20 P.M. Comparison of Two Standard Technologies for Measurement of Intraocular Pressure

Kathryn R. Baker, M.D.*
Deborah M. Grzybowski, Ph.D.
Cynthia J. Roberts, Ph.D.

2:30 P.M. Discussion and Questions

2:40 P.M. Break

Retina

Timothy H. Tweito, M.D., Moderator

3 P.M. Evaluation of Choroidal Melanomas with Dynamic Contrast Enhanced MRI

Ryan F. Deasy, M.D.*
Johannes T. Heverhagen, M.D. Ph.D.
Mohamed H. Abdel-Rahman, M.D., Ph.D.
Hendrick von Tengg-Kobligk
Elson L. Craig, M.D.
Shivani Gupta, B.S.
Guang Jia
Frederick H. Davidorf, M.D.
Michael V. Knopp, M.D., Ph.D.

3:10 P.M. A Retrospective Evaluation of Photodynamic Therapy, Intravitreal Bevacizumab, and Intravitreal Pegaptanib for the Treatment of Neovascular Age-Related Macular Degeneration

Jeff Sinclair, M.D.*
Robert B. Chambers, D.O.
Louis J. Chorich, III, M.D.
Frederick H. Davidorf, M.D.
Alan D. Letson, M.D.

3:20 P.M. Hereditary Uveal Melanoma

Matthew P. Ohr, M.D.*
Frederick H. Davidorf, M.D.
Judith Westman, M.D.
Mohamed H. Abdel-Rahman, M.D., Ph.D.
Getachew Boru, Ph.D.

3:30 P.M. Discussion and Questions

Cornea

Craig J. Moskowitz, M.D., Moderator

3:40 P.M. Comparison of Swelling Response in Non-Surgical and Post-Refractive Surgery Populations

Nicholas A. Rogers, M.D.*
Deborah M. Grzybowski, Ph.D.
Cynthia J. Roberts, Ph.D.
Richard G. Lembach, M.D.

3:50 P.M. Calculating Corneal Curvature From Surface Height; Is it Accurate Without a Placido?

Kristopher J. Kelly, M.D.*
Cynthia J. Roberts, Ph.D.
David Castellano, M.D.
Richard G. Lembach, M.D.

4 P.M. Topographic Analysis of Neutral Versus Conventional Pressure in Conductive Keratoplasty

Carrie A. Lembach, D.O.*
Richard G. Lembach, M.D.
Cynthia J. Roberts, Ph.D.

4:10 P.M. The Correlation Between Axial Length and Accommodative Performance of the Crystalens Intraocular Lens

Thomas J. Dingle, M.D.*
Thomas F. Mauer, M.D.
Jack Dingle, M.D.

4:20 P.M. Using the OQAS to Assess Vision Quality

Julie M. Lange, M.D.*
Robin Beran, M.D.
Cynthia J. Roberts, Ph.D.

4:30 P.M. Discussion and Questions

4:40 P.M. Vision and Aging: A Public Health Perspective

Sherill K. Williams, President and CEO,
Prevent Blindness Ohio

4:55 P.M. Closing Remarks

Thomas F. Mauer, M.D., Chairman

* Denotes presenter

Educational Objectives

After attending, the participant will be able:

- To describe the relationship between serum and CSF levels of vitamin A meidators in patients with idiopathic intracranial hypertension
- To describe the effects of the vitamin A analogue all-trans retinol on the viability, proliferation, morphology, and protein expression of primary cultures of human arachnoid granulation cells
- To describe the association of dietary vitamin A intake and the development of pseudotumor cerebri
- To describe a novel ex vivo model of CSF outflow through human arachnoid granulations and its applications in future idiopathic intracranial hypertension research
- To describe differences in technology between Goldman Aplanation Tonometry and Pascal Dynamic Contour Tonometry
- To describe different IOP measurement technologies and compare IOP measurements in pre- and post-trabeculectomy patients
- To compare intraocular pressure measurement variations in different locations of the cornea and sclera when measured by the Tonopen and
- To describe a dynamic contrast enhanced MRI technique for the evaluation of choroidal melanomas
- To compare the results of the studied treatment groups for Neovascular Age-Related Macular Degeneration based on change in visual acuity, central retinal thickness (as measured by OCT), and change in angiographic leakage
- To identify patients with uveal melanoma that are at increased risk for developing other types of cancer
- To describe the difference in swelling response in non-surgical and post-refractive surgery populations
- To recognize why a Placido disc is necessary to accurately measure corneal curvature from Orbscan topography
- To define different methods of performing Conductive Keratoplasty
- To describe the relationship between axial length and Crystalens accommodative performance
- To recognize the amount in variability of measurements taken by the OQAS device