Optometric Glaucoma Society

15th Annual Meeting

Anaheim, California

November 7-9, 2016
The Optometric Glaucoma Society would like to acknowledge the generous support of all of our sponsors.
President’s Welcome

It is a great privilege and honor to welcome you to Anaheim for the 15th scientific meeting of the Optometric Glaucoma Society. We are very proud to present this year’s program showcasing some of the world’s best scientific and clinical experts in glaucoma. The OGS continues to be a model of excellence in specialty education within optometry. The symbiosis with the AAO continues and allows us to share a snapshot of our world class OGS scientific meeting with our colleagues from outside the OGS. This allows the OGS to share some of our world-renowned educators with those professionals attending the AAO meeting.

I would like to welcome our internationally renowned speakers, researchers and awardees as well as our expert members and guests. This meeting continues to evolve at a high level due to our valued industry members and their support. This is my fourth year as your President, and it is unbelievable that I am able to introduce a new lineup every year, better than the previous. We all need to take a moment to acknowledge the diligent work of Andy Hartwick and the Program Committee. It is an extremely tedious job to coordinate international speakers as well as to orchestrate such a logically flowing scientific program. A recurring comment from past honoree speakers is consistent praise for the interactive environment and scientific rigor of our meeting. With that, we encourage discourse with our expert presenters by commenting at one of the microphones located in the aisles.

This year we are extremely fortunate to have Dr. George Cioffi from Columbia University as our 2016 OGS Honoree. Dr. Cioffi’s honoree lecture is titled “Glaucoma Population Management”. I am also very pleased to announce this year’s President Award honoree, Dr. Felipe Medeiros from UCSD. Felipe’s lecture will discuss the use of virtual reality and it’s use in glaucoma. We are grateful to all of our expert speakers responsible for this world class scientific and clinical meeting.

This meeting would not be possible without the tremendous efforts of our Meeting Committee and Industry Relations Committee. Last year for the first time, the OGS Meeting was coordinated by a true Professional Event Planner, Kellie Robertson Rogers. Kellie’s duties related to the meeting include tracking all of the numerous minute details such as venue selection, catering, meeting rooms, member and guest registration, industry vendor contracting, catering, receptions, meals, awards, and speakers just to name a few. Kellie has been an asset well beyond her role in the meeting planning and now has assumed many of the day to day responsibilities that we have all shared to a certain degree and felt her efforts were worthy of an official title within our organization. As you see Kellie around the meeting please introduce yourself to our new Executive Director of the OGS.

We really do have a great team and I would like to thank Mike Chaglasian for all his help pulling together the logistics of the meeting while also working with Kellie. Leo Semes will be looking after CE accreditation again this year and we thank him and UAB for their help with this aspect of the meeting.

On behalf of the Executive Committee Officers: Richard Madonna, Michael Chaglasian, Leo Semes and Executive Vice President Murray Fingeret, thank you to all our members and volunteers who continue to share their time and expertise to pull off this great meeting. I wanted to take this opportunity to congratulate Dr. Michael Chaglasian who will be taking over the presidency of the OGS. Mike is a great leader who is very deserving of the opportunity to represent us in the coming years. Thank you to everyone for entrusting me to represent this exceptional organization. Finally, please enjoy the fellowship of colleagues and friends offered at this special time of year for the OGS.

Ben Gaddie, OD
President, OGS
Optometric Glaucoma Society
15th Annual Meeting
Anaheim, CA

Monday, November 7, 2016
3:30 – 4:30 PM Executive Committee Meeting
4:30 – 5:30 PM General Business Meeting (for all members)
5:30 – 6:00 PM Video Presentation, “Perimetric Development: Its Influence on Glaucoma Knowledge and Management”
   - Anders Heijl, MD, PhD, Lund University, Malmö, Sweden
6:00 – 9:00 PM Opening Reception

Tuesday, November 8, 2016
7:30 – 8:00 AM Breakfast (opportunity to visit vendor exhibits)
8:00 AM Welcome from Ben Gaddie, OGS President

Session 1: New Ideas in Glaucoma
Moderator: Dan Roberts, Illinois College of Optometry

8:05 – 8:15: “Application of Multifocal Electroretinograms in Experimental Glaucoma”
   – Lakshmi Rajagopalan, OGS Ezell Fellow, University of Houston
8:15 – 8:20: Discussion and questions

8:20 – 8:40: “A Novel Finding in the Outflow Pathway of Eyes with Primary Open-Angle Glaucoma”
   – Thomas Freddo, New England College of Optometry
8:40 – 8:50: Discussion and questions

8:50 – 9:35: President’s Lecture “More than a Video Game: Virtual Reality and its Uses in Glaucoma”
   – Felipe Medeiros, University of California, San Diego
9:35 – 9:50: Discussion and questions

9:50 – 10:20: Morning Break (opportunity to visit vendor exhibits)

Session 2: What Happens in Glaucoma and How Do We Explain That To Our Patients?
Moderator: Michael Chaglasian, Illinois College of Optometry

10:20 – 11:05: “Questions Glaucoma Patients Ask”
   – George Cioffi, Columbia University
11:05 – 11:20: Discussion and questions

   – Derek Welsbie, University of California, San Diego
11:50 – 12:00: Discussion and questions

Noon – 1:00: LUNCH (opportunity to visit vendor exhibits)
Tuesday, November 8, 2016 continued

1:00 – 1:05: Update from the National Alliance for Eye and Vision Research (NAEVR)
   –James F. Jorkasky, Executive Director, NAEVR

**Session 3: Management of Glaucoma Patients**
*Moderator: Richard Madonna, SUNY College of Optometry*

1:05 – 1:35: “Glaucoma Progression: What is New and What is Best?”
   –Felipe Medeiros, University of California, San Diego
1:35 – 1:45: Discussion and questions

1:45 – 2:30: *OGS Honoree Award Lecture: “Glaucoma Population Management”*
   –George Cioffi, Columbia University
2:30 – 2:40: Discussion and questions

**Session 4: Shedding Light on Glaucomatous Pathology**
*Moderator: Sarah Wood, University of Michigan Kellogg Eye Center*

   –Jacky Kwong, University of California, Los Angeles
2:55 – 3:05: Discussion and questions

3:05 – 3:35: “Real-Time Aqueous Humor Outflow Imaging”
   –Alex Huang, University of California, Los Angeles
3:35 – 3:45: Discussion and questions

3:45 – 4:10: Afternoon Break (opportunity to visit vendor exhibits)

**Session 5: Personalized Medicine and Glaucoma**
*Moderator: Murray Fingeret, Department of Veteran Affairs, Hewlett NY*

4:10 – 4:15: OGS Foundation
   –Joe Sowka
4:15 – 5:00: “Personalized Medicine and Glaucoma”
   –Robert Weinreb, University of California, San Diego
5:00 – 5:10: Discussion and questions

**Session 6: Panel Discussion**
5:10 – 6:00: Panel discussion with all speakers from meeting and Founders Awardee, Dr. Gerhard Zinser
   –Discussion of emerging hot topics, moderated by Dr. Murray Fingeret

6:30 - 9:30: Reception and Dinner
Wednesday, November 9, 2016 OGS/AAO Joint Symposium

8:00 – 10:00 AM: Session 1: “Glaucoma Management”
Moderator: Richard Madonna, SUNY College of Optometry

1. George Cioffi, Columbia University
   “Questions Glaucoma Patients Ask”

2. Felipe Medeiros, University of California, San Diego
   “Detecting Glaucoma Progression: Simplifying a Complex Task”

10:00 AM – Noon: Session 2: “New Frontiers in Glaucoma”
Moderator: Danica Marrelli, University of Houston College of Optometry

1. Alex Huang, University of California, Los Angeles
   “Vision and Space Travel”

2. Derek Welsbie, University of California, San Diego
   “Alternative Medicine, Stem Cells and Glaucoma”

3. Alex Huang, MD PhD, University of California, Los Angeles
   “Uveoscleral Outflow”
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The concomitant use of two topical beta-adrenergic blocking agents is not recommended.

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ISTALOL® (timolol maleate ophthalmic solution) is a non-selective beta-adrenergic receptor blocking agent indicated in the treatment of elevated intraocular pressure in patients with ocular hypertension or open-angle glaucoma.
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- Both ISTALOL® (timolol maleate ophthalmic solution) and TIMOPTIC® (timolol maleate ophthalmic solution) in OCUDOSE® (dispenser) are contraindicated in patients with: bronchial asthma; a history of bronchial asthma; severe obstructive pulmonary disease; sinus bradycardia; second or third degree atrioventricular block; overt cardiac failure; cardiogenic shock; hypersensitivity to any component of the product.
- The same adverse reactions found with systemic administration of beta-adrenergic blocking agents may occur with topical administration. Severe respiratory reactions and cardiac reaction, including death due to bronchospasm in patients with asthma, and rarely death in association with cardiac failure, have been reported following systemic or ophthalmic administration of timolol maleate.
- Patients with a history of atopy or severe anaphylactic reactions to a variety of allergens may be unresponsive to the usual doses of epinephrine used to treat anaphylactic reactions.
- Timolol has been reported rarely to increase muscle weakness in some patients with myasthenia gravis or myasthenic symptoms.
- Beta-adrenergic blocking agents may mask signs and symptoms of acute hypoglycemia or certain clinical signs of hypothyroidism. Patients subject to spontaneous hypoglycemia, or diabetic patients receiving either insulin or oral hypoglycemic agents, or patients suspected of developing thyrotoxicosis, should be managed carefully, with caution.
- In patients undergoing elective surgery, some authorities recommend gradual withdrawal of beta adrenergic receptor blocking agents because these agents impair the ability of the heart to respond to beta-adrenergically mediated reflex stimuli.
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Notes
The OGS Honoree

**George A. Cioffi, MD**

Dr. Cioffi is the Edward S. Harkness Professor and Chairman of the Department of Ophthalmology at Columbia University College of Physicians and Surgeons. He also holds the Jean and Richard Deems Endowed Professorship and is the Ophthalmologist-in-Chief at NewYork-Presbyterian Hospital/Columbia University Medical Center. Dr. Cioffi is the new president of ColumbiaDoctors, Columbia’s multi-specialty faculty practice organization of more than 1,200 clinical providers from Columbia University Medical Center.

Dr. Cioffi formerly held the Richard G. Chenoweth Chair of Ophthalmology at the Devers Eye Institute and was the Chief Medical Officer & Senior Vice President at Legacy Health System in Portland, Oregon. He received his medical degree at the University of South Carolina, completed a residency in ophthalmology at the University of Maryland where he also served as Chief Resident, and a fellowship in Research & Clinical Glaucoma at Devers Eye Institute under Dr. E. Michael Van Buskirk. More recently, he completed the inaugural Harvard Business School program in Managing Healthcare Delivery.

Dr. Cioffi is the Editor-in-Chief of Journal of Glaucoma, and is the current Chairman of the Basic and Clinical Science Course (BCSC) for the American Academy of Ophthalmology (AAO). He is the Chairman of the Scientific Advisory Committee for the Glaucoma Research Foundation in San Francisco. He is a past President of the Oregon Academy of Ophthalmology and has served as a member of the FDA Ophthalmology/Dermatology Advisory Committee for drug approval. He also served on the Board of Directors for the Foundation for Medical Excellence and was selected by the Governor John Kitzhaber to serve on the Oregon Health Policy Board’s Outcomes & Quality taskforce.

Dr. Cioffi has been supported with multiple grants from the National Eye Institute, continuously for 18 years, as well as several private foundation and industry grants. He has authored more than 250 articles and book chapters and edited a book for non-ophthalmologists, The Devers Manual: Ophthalmology for the Healthcare Professional. He has received many awards throughout his career, including being selected to Phi Beta Kappa at the University of Vermont, being included in The Best Doctors in America since 2002, a Senior Achievement Award in 2005 & Secretariat Award in 2012 both from the AAO, and the Innovators Award from the Glaucoma Research Foundation also in 2012. He has presented more than 130 invited lectures & visiting professorships at institutions around the world, including multiple named lectures such as the Cohen Lecture in Minneapolis, the Shaffer-Hetherington-Hoskins Lecture in San Francisco, the Sánchez-Salorio Lecture at Hospital Clínico Universitario de Valladolid, Spain, the Sivalingam lecture of the Wills Eye Hospital, and the 2006 American Glaucoma Society’s Clinician-Scientist lecture.

He has mentored more than 30 clinical and post-doctoral fellows over his career. These clinicians and scientists are now at academic institutions and in practices around the U.S., Canada, Europe, Asia, and Australia.

President’s Lecturer

**Felipe A. Medeiros, MD, PhD**

Felipe A. Medeiros, M.D., Ph.D. is Professor of Ophthalmology and the Ben and Wanda Hildyard Endowed Chair for Diseases of the Eye at the UCSD School of Medicine. He is also Medical Director of the Hamilton Glaucoma Center, University of California San Diego and Director of the Visual Performance Laboratory at UCSD. He also directs the Glaucoma Fellowship Program at the Department of Ophthalmology at UCSD.

Dr. Medeiros has published over 260 peer-reviewed publications in major Ophthalmology journals, 40 book chapters and 4 books on the evaluation of the optic nerve, visual field, intraocular pressure and progression of glaucoma. Dr. Medeiros research has been focused on development of innovative methods to diagnose and detect glaucoma progression as well as assessment and prevention of functional impairment in the disease, the leading cause of blindness in the world. His laboratory is currently evaluating the impact of eye diseases on activities of daily living, using innovative techniques such as virtual reality.
As a result of his contributions as author and reviewer, Dr. Medeiros has had the honor of recently being selected to be the first scientist to have a profile featured by Ophthalmology, the Journal of the American Academy of Ophthalmology and the leading publication in the field (Ophthalmology 2016; 123: 2056-57). He has also received numerous other honors and awards, including the American Academy of Ophthalmology Senior Achievement Award, the Ronald Lowe Medal from the Australian and New Zealand Ophthalmology Society, South African Glaucoma Society Honorary Member, the World Glaucoma Association Research Award, Federal University of Sao Paulo Special Recognition Award, Iranian Society of Ophthalmology Recognition Award, University of Sao Paulo Award, Arno Habicht Award for Research Sciences, ARVO Foundation/Merck Innovative Ophthalmology Research Award, the American Glaucoma Society Mid-Career and Clinician-Scientist Awards, Best Doctors in America, among others. Most recently, he received the Moacyr Alvaro Gold Medal, the most prestigious award in Ophthalmology in Latin America.

OGS Founders Award

**Gerhard Zinser, PhD**

Dr. Gerhard Zinser completed a MSc. in physics, and a PhD. in natural sciences, with a specialization in applied optics, at the University of Heidelberg, Germany. He continued his postdoctoral research at the German Cancer Research Center, with a focus on 3D light-microscopic image acquisition and processing. Zinser went on to develop laser scanning imaging systems with the company Heidelberg Instruments GmbH. Currently, he is the co-founder and managing director of Heidelberg Engineering GmbH.

OGS Corporate Partnership Award

*In recognition of his many contributions to this Society and to patient care worldwide.*

**Rick Halprin**

After graduating from college, Rick gained his CPA certification and spent several years in public accounting and consulting. He then took on the role of Financial Controller at Cilco and subsequently Vice President of Finance, CooperVision Cilco. Via acquisition, Rick began his career with Alcon in 1989 as Controller of the Surgical Division. As a finance professional, he was uniquely given the opportunity to move into pharmaceutical sales. Rick was awarded pharmaceutical sales representative of the year in 2001 and Presidents Club member in 2002. After two years in sales, Rick moved into glaucoma marketing. In this role he worked closely with Key Opinion Leaders and key glaucoma societies globally and became among the most recognized and respected industry members of the glaucoma community. Rick has been a dedicated liaison to major Glaucoma Societies and KOLs and has strongly advocated on their behalf. Rick received his B.S from Temple University in Philadelphia and attended the Harvard Business School Program for Management Development. He serves as an officer on the Board of Directors of the Glaucoma Research Foundation. Rick is married, has two children and two grandchildren.
Optometric Glaucoma Society 2016 Ezell Fellow

The Optometric Glaucoma Society established an Ezell Fellowship in 2007, dedicated to fund post-graduate research in the area of glaucoma. The award is done in partnership with the American Optometric Foundation and meant to encourage talented individuals to pursue a career in research and education.

Jack Phu, B. Optom, MPH

Jack is currently a staff optometrist at Centre for Eye Health and is undertaking PhD studies in glaucoma and visual fields. He graduated from UNSW in 2011 and spent 3 years working in an independent private practice with a strong focus on ocular diseases. He became a Fellow of the American Academy of Optometry and completed a Masters in Public Health in 2014. He is involved in undergraduate teaching at UNSW in the areas of ocular diseases, clinical optometry and ocular therapeutics. He is also the 2016-2017 Optometric Glaucoma Society Ezell Fellow.

Distinguished Service Award

In recognition of his many contributions to this Society.

Ian Benjamin Gaddie, OD

Dr. Ben Gaddie earned his Doctor of Optometry from the University of Alabama-Birmingham School of Optometry. Dr. Gaddie then completed a Residency in Ocular Disease through Northeastern State University College of Optometry at the Triad Eye Medical Clinic and Cataract Institute in Tulsa, OK. Currently he is the owner and director of the Gaddie Eye Centers, a multi-location full service practice in Louisville that was started by his father over 40 years ago. He is a Fellow of the American Academy of Optometry and President of the Optometric Glaucoma Society (OGS). Dr. Gaddie is currently the Co-Chairman of the International Vision Expo Meetings, the largest provider of continuing education for eye doctors. He is also a Past President of the Kentucky Optometric Association.

Having published extensively in the ophthalmic literature, Dr. Gaddie serves on the editorial boards of Review of Optometry, Optometric Management, Primary Care Optometry News and Optometry Times. In 2011, Dr. Gaddie was inducted into the Oklahoma Pioneers in Optometry Hall of Fame. In 2015, he was selected as one of the Most Influential Doctors in the last 50 Years by the industry publication Optometric Management and was awarded the Kentucky Optometric Association Optometrist of The Year Award.
Speakers

Thomas F. Freddo OD, PhD
Dr. Thomas Freddo joined NECO in 2016 after serving as the Director and a Professor at the School of Optometry at the University of Waterloo between 2006-2016. He completed his B.A. at The University of Connecticut, his Doctor of Optometry degree at The New England College of Optometry and Ph.D at Boston University School of Medicine, where he also completed a Fellowship in Ophthalmic Pathology. For 25 years, Dr. Freddo served as Professor of Ophthalmology, Pathology and Anatomy at Boston University School of Medicine where he also served as Senior Consultant in Diagnostic Ophthalmic Pathology and Vice-Chairman for Research in the Department of Ophthalmology. During that period he also maintained a private practice of optometry at Boston Medical Center Hospital and directed the eye pathology service at Boston University Medical Center. At The New England College of Optometry, before 2006, Dr. Freddo taught Anatomy and served as Adjunct Professor of Optometry. Prior to 2006, he also has directed an active, NEI-funded, research program in anterior uveitis and glaucoma for over 20 years. He is a Gold Fellow of ARVO, has served on the Scientific Advisory Committee of Research to Prevent Blindness and is a consultant to the US FDA Medical Device Panel. He has served on the Education Committee of the World Council of Optometry and currently serves on the Board of Regents of Beta Sigma Kappa, the International Optometric Honor Fraternity.

Dr. Freddo was the 1992 recipient of the American Optometric Foundation's Glenn A. Fry Award for excellence in eye/vision research and has received a total of 11 teaching awards from two institutions. He is a founding member of the Optometric Glaucoma Society and served on the Board of Directors of the American Academy of Optometry from 2000-2006. In 2004, Dr. Freddo received an honorary Doctorate from The State University of New York and in 2010 received an honorary doctorate from the Université de Montréal. In 2010, Dr. Freddo was honored by the American Academy of Optometry with the Carel Koch award for his work at the interface between optometry and medicine, including his service as the first optometrist President of The International Society for Eye Research.

Alex Huang, MD, PhD
Dr. Alex Huang graduated from Pomona College and completed his MSTP (Medical Scientist Training Program) M.D./Ph.D program at The Johns Hopkins University School of Medicine with Lasker Award winning Dr. Solomon Snyder in the Solomon H. Snyder Department of Neuroscience. After completing his residency at then USC/Doheny Eye Institute, Dr. Huang left USC to complete his glaucoma fellowship with Dr. Robert N. Weinreb at Shiley Eye Institute. Joining the USC faculty as a clinician-scientist, Dr. Huang left USC again and became one of the inaugural faculty members of the Doheny Eye Institute/Stein Eye Institute/UCLA affiliation.

Dr. Huang is a National Institutes of Health/National Eye Institute supported clinician-scientists on a K08 award. Clinically, Dr. Huang is recognized as a thought leader in new angle-based minimally invasive glaucoma surgeries (MIGS) that he offers to his patients. He has directed his clinical acumen in MIGS into a research program dedicated to developing a combined Structure:Function understanding of aqueous humor outflow. This work has led to the invention of the Aqueous Angiography technique first published in PLoS ONE (1/2016). Dr. Huang has lectured regarding his research at American Glaucoma Society, American Academy of Ophthalmology, World Glaucoma Congress, and World Ophthalmology Congress. This work has been profiled in Ophthalmology Times, The Ophthalmologist, and Eyeworld magazines. Separately, Dr. Huang is also a NASA/NSBRI funded vision scientist investigating the cause for vision loss seen in astronauts in space.

Dr. Huang has also been awarded the American Glaucoma Society Mentoring for Advancement of Physician-Scientists award (MAPS) two times (2013 and 2014) and was given the American Glaucoma Society Young-Clinician Scientist Award in 2015. Fight For Sight recognized Dr. Huang as an Undergraduate Research Award Mentor in 2015. Most recently, Dr. Huang was honored with the Research to Prevent Blindness Career Development Award (1/2016) and the Heidelberg Engineering Xtreme Research Award (5/2016).
Jacky M.K. Kwong, PhD, MPhil, BSc(Hons) Optometry
Dr. Jacky Kwong is a Researcher in the Department of Ophthalmology, Glaucoma Division, at David Geffen School of Medicine, University of California Los Angeles (UCLA). Dr. Kwong received his Optometry degree from Hong Kong Polytechnic University. He received both his Master and Ph.D. degrees from The Chinese University of Hong Kong in Ophthalmology and Visual Sciences before completing his fellowship under Dr Joseph Caprioli’s mentorship at Jules Stein Eye Institute, UCLA in 2002. His research goal is to identify neuronal rescues for glaucoma by modulating stress response. To understand the loss of retinal ganglion cells (RGCs) in glaucoma, his research focuses on the intraocular pressure profile and the cascades of RGC death in multiple animal models related to glaucoma and optic nerve injury. Dr. Kwong and his colleagues recently found a retinal ganglion cell specific protein called RNA binding protein with multiple splicing (Rbpms) which becomes a marker specific for RGCs. He is also utilizing novel apoptotic imaging probes to visualize degenerating RGCs in vivo and evaluate the efficacy of therapy. He is a member of the Association for Research in Vision and Ophthalmology and a fellow of the American Academy of Optometry. He also is a reviewer for a number of ophthalmology and neuroscience journals.

Lakshmi Rajagopalan, BS Optom (India), PhD
OGS 2015 Ezell Fellow
Lakshmi is a final year graduate student at the University of Houston College of Optometry (UHCO). She received her optometry degree from India. In Houston, she works in the laboratory of Dr Laura Frishman and collaborates with various other laboratories. Lakshmi was awarded the American Optometric association and Optometric glaucoma society Ezell fellowship for the year 2015.

Lakshmi’s key research interests include the application of electroretinogram (ERG) in glaucoma with specific interest on using the multifocal ERG in detecting early changes in inner retinal function. In addition, her research also focuses on comparing the functional changes with structural changes using spectral domain ocular coherence tomography (SD OCT) and adaptive optics.

Lakshmi was the recipient of the University of Houston Presidential fellowship for 2 years (2009-2011), young investigator award from the optical society of America (OSA), fight of sight summer student fellowship (2014) and the Minnie Flaura Turner award (2014). She also received the best poster award at the graduate research and scholarship projects day in university of Houston and the ARVO Knights Templar travel grant for the year 2015.
Robert N. Weinreb, MD

Robert N. Weinreb, M.D. is the Distinguished Professor and Chair of Ophthalmology at the University of California, San Diego. He is also Director of the Shiley Eye Institute, Director of the Hamilton Glaucoma Center, holder of the Morris Gleich Chair of Glaucoma and is appointed as Distinguished Professor of Bioengineering. Dr. Weinreb is widely considered as one of the pre-eminent leaders in the field of glaucoma, and has been previously honored by the Optometric Glaucoma Society as its first Honoree (2002) and as recipient of the Founders Award (2012).

Dr. Weinreb received his medical degree from Harvard Medical School and has trained more than 140 post-doctoral Fellows in Glaucoma, including several Chairs and many others who hold distinguished academic positions in the United States and throughout the world. He is past President of the American Glaucoma Society (AGS), the Association for Research in Vision and Ophthalmology (ARVO), the Foundation of the American Glaucoma Society and the World Glaucoma Association (WGA). He is the current President of the Pan American Glaucoma Society.

Derek Welsbie, MD, PhD

Derek S. Welsbie, M.D., Ph.D., is an assistant professor of ophthalmology at UC San Diego. He earned his M.D. and Ph.D. (molecular biology) degrees from the University of California, Los Angeles. While there, he had extensive experience developing new drugs in the treatment of cancer and is translating that experience into ground-breaking laboratory efforts to identify new potential drug targets in glaucoma. Specifically, his interest is the use of high-throughput genetic screening (i.e. functional genomics) to identify the genes responsible for nerve cell death in glaucoma and other neurodegenerative disorders.

Dr. Welsbie has received a number of prestigious accolades, including The Schaffer Prize (awarded by the Glaucoma Research Foundation to a researcher whose project best exemplifies the pursuit of innovative ideas in the quest to better understand glaucoma) and the Frank Stein and Paul S. May Grant in 2012 for Innovative Glaucoma Research.
NAEVR and AEVR, Serving as the “Friends of the NEI”
2016 Deliverables

Vision Research Funding NEI/NIH:
- Congress finalized Fiscal Year (FY) 2016 appropriations with an NIH increase of $2 B (6.6%) over FY2015 to $32.1 B and an NEI increase of $31 M (3.9%) over its FY2015 operational net to $708 M—reflecting the first time in four fiscal years that NEI funding exceeds its pre-sequester FY2012 funding level of $704 M.

- The Senate has proposed another $2 B NIH increase (6.3 %) in FY2017, which would result in a $33 M (4.6 %) NEI increase to $741 M. NAEVR advocated extensively with Congress for a short-term Continuing Resolution through the election recess, then finalizing FY2017 appropriations with the $2 B increase in a post-election session.

- NAEVR worked with the Senate Health, Education, Labor and Pensions (HELP) Committee on draft Health Innovation legislation—a companion to the 2015 House-passed 21st Century Cures Act, which includes a new NIH Innovation Fund supported at $8.75 B over five years with mandatory funding to fund NIH “surge” initiatives, such as Precision Medicine and the BRAIN Initiative, as well as early-stage investigators.

- NAEVR served as a sponsor for the National Academies of Sciences, Engineering, and Medicine’s (NASEM) report Making Eye Health a Population Health Imperative: Vision for Tomorrow, released in September. NAEVR is working with fellow sponsors on implementation plans for the report’s nine recommendations, which may serve in advocacy for vision research/vision loss prevention research funding.

- NAEVR hosted four Capitol Hill Advocacy Days that engaged researchers and focused on the plight of emerging vision scientists, including an ARVO Advocacy Day, a Private Funding Foundation Advocacy Day, Rally for Medical Research Advocacy Day, and the Second Annual NAEVR Emerging Vision Scientists Advocacy Day.

Vision Research Funding Defense:
- In FY2017, the House proposed a $5 M Vision Research Program (VRP) increase to $15 M after four years of $10 M funding. Since created by Congress in FY2009 by NAEVR advocacy and through FY2016, VRP has awarded 79 grants totaling $68.4 M.

Capitol Hill Education:
- In August, JAMA Ophthalmology published the results of AEVR’s 2014 Attitudinal Survey of Americans on Eye and Vision Health. The most accessed article of that edition, it has been cited extensively in the press and the NASEM report.

- AEVR’s Second Annual Emerging Vision Scientists Day on Capitol Hill engaged 22 early-stage investigators (ODs, MDs, PhDs)—several in glaucoma—in exhibiting and speaking on-camera about their research to assist in their professional development.

- AEVR’s Decade of Vision 2010-2020 Initiative hosted five Congressional Briefings recognizing World Glaucoma Day (co-hosted by OGS), International AMD Awareness Week, World Sight Day (NASEM report), Chronic Dry Eye, and defense vision research.

Read about NAEVR/AEVR’s deliverables at www.eyeresearch.org
Leadership and Committees

Officers/Executive Committee
Ben Gaddie – President
Richard Madonna – Vice President
Michael Chaglasian – Treasurer
Leo Semes – Secretary
Murray Fingeret – Executive Vice President
John Flanagan - Past President

Past Presidents
Murray Fingeret 2001-2008
John Flanagan 2008-2012
Ben Gaddie 2012-2016

Members at Large
Derek MacDonald

By-Laws
Daniel Roberts – Chair
Rob Prouty
Anastas Pass

Industry Relations
Joe Sowka – Executive Liaison
Austin Lifferth – Liaison

Annual Meeting
Kellie Rogers
Leo Semes – CE accreditation
Andrew Hartwick – Program
Austin Liffereth – Industry Liaison

Nominating
John McSoley- Chair
Victor Malinovsky
Elizabeth Muckley

Educators / Residents / Special Meetings
Danica Marrelli – Chair
Mike Chaglasian – Educators
Ben Gaddie – Residents
John Flanagan
Murray Fingeret

Membership & Recruitment
Mark Dunbar – Membership Co-Chair
Tony Litwak – Recruiting – Co-Chair
Jane Ann Grogg
Bernie Fesco
Richard Madonna
Nick Opitz

Program
Andrew Hartwick – Chair
John Flanagan – Liaison to Executive Committee

Media (Web Site / Internet / Networking)
Kellie Rogers
Shaban Demirel
Larry Alexander – E-Journal / Newsletter
Carl H. Jacobsen
Blair Lonsberry – Liaison with Media

OGS Mission Statement
The Optometric Glaucoma Society (OGS) mission is to promote excellence in care of glaucoma patients through professional education and scientific investigation. The society’s major objectives are to promote education of optometrists related to all aspects of glaucoma; promote the acquisition of new knowledge about glaucoma, in part through the development of glaucoma research within optometry; facilitate the dissemination of information about glaucoma to health–care providers and the public; and establish collaborative relationship with other related organizations.
In Memorium: Larry J. Alexander, O.D.

The profession of optometry and the entire eye care industry lost a giant on April 16, 2016 at the age of 68. Consummate clinician, advocate, friend, mentor, father, husband, grandfather and a true gentleman who loved the essence of living and life. Dr. Alexander graduated from Indiana School of Optometry in 1971 and entered the US Navy for the first years of his career. He briefly practiced in Elizabeth City, NC before joining the faculty of UAB School of Optometry in the late 1970’s. His career at UAB spanned nearly 20 years, where he emerged as the authority in ocular disease, particularly retinal disease. His educational contributions during his academic career were nothing short of amazing, including writing three editions of his mandatory standard textbook, Primary Care of the Posterior Segment. If you attended UAB during his tenure, you knew your ocular disease and it’s likely that Larry’s way of forcing you outside your box or comfort zone was partially responsible for that accomplishment.

Following his time at UAB, Dr. Alexander moved to my hometown of Louisville, KY to work in a large referral only retina practice. He was amongst the first optometrists to ever work in such an environment, all retinal specialist MD’s and Larry, working side by side managing complicated retinal cases every day. He eventually became the doctor-administrator at John Kenyon Eye Center in Louisville, a multispecialty referral center focused only on ocular disease and ophthalmic surgery. Larry’s understanding of OCT in the early years reinvigorated his passion for teaching doctors and students alike. His knowledge and passion for OCT landed him a job he tried to say “no” to accepting. He went on to work for Optovue during his last five years where he continued to share his knowledge and passion with the entire industry.

His wit, humor and seriousness, all at the same time, defined a persona much bigger than his actual physical stature. Larry was a man of unwavering principles, measured righteousness and infinite passionate drive. His immeasurable contributions to the profession and the exponential knowledge bestowed to his colleagues has yet to be grasped in any tangible way. He was a mentor not only to me but so many others. Larry was unequivocally the best clinician I have ever met, not just in optometry or ophthalmology, but the best of any specialty of healthcare. His innate ability and intuition was remarkable beyond words. Even better, his sincere care and concern for his patients inspired me to be the clinician I am today. Perhaps his most passionate message was that of helping others, from patients to colleagues to complete strangers, his benevolence and generosity was remarkable. Larry always reminded me to “pay it forward”.

Dr. Alexander is survived by his wife of nearly 50 years, Lynn Alexander, as well as his two sons, Matt (Kari) and Dan Alexander along with a brother, sister and two grandchildren. We say goodbye to a legend who inspired us all.
THE OPTOMETRIC GLAUCOMA SOCIETY FOUNDATION

Mission Statement: The Optometric Glaucoma Society Foundation’s mission is to support glaucoma education and research, and to promote excellence in the care of patients with glaucoma.

The Foundation serves as the philanthropic arm of the Optometric Glaucoma Society. Support for the Foundation will allow for the implementation of Resident and Educator Meetings, funding glaucoma research, developing patient education tools, and creation of materials to enhance glaucoma education.

Optometric Glaucoma Society Foundation Board of Directors:
Joseph Sowka, OD, President
Austin Lifferth, OD
Michael Patella, OD
John McSoley, OD
Murray Fingeret, OD
Executive Director: Kellie Robertson Rogers
# Disclosures of Speakers

<table>
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<tr>
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<th>Code</th>
<th>Description</th>
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<tr>
<td>Consultant Advisor</td>
<td>C</td>
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<td>Employed by a commercial entity.</td>
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<td>Grant support for the past 1 year (all sources) and all sources used for this project if this form is an update for a specific talk or manuscript with no time limitation</td>
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**Cioffi, George:** none

**Freddo, Thomas:** none

**Huang, Alex:** C-Allergan, S-Heidelberg Engineering, Glaukos Corporation

**Kwong, Jacky:** none

**Medeiros, Felipe:** TBD

**Rajagopalan, Lakshmi:** E-Allergan

**Weinreb, Robert:** TBD

**Welsbie, Derek:** none
I remember the first time the concept of developing a specialty “learned” society for Optometry was discussed. I was browsing the posters at the annual meeting of the Association of Research in Vision and Ophthalmology (ARVO) in the Spring of 2000 and Bob Weinreb walked up, asking if Optometry had a society dedicated to glaucoma. I answered “No, we do not.” Bob replied “Well, you should,” and departed. That was it. No mention of where the thought came from or what it was about. Bob has been a friend for many years and is one of the world leaders in glaucoma. I wasn’t sure why he asked, and I quickly forgot about it. A few months later, Bob phoned and asked again if Optometry had a society, already knowing the answer but this time, not willing to let it drop. He asked what I had done to form such an organization, and I was embarrassed to say that I had done nothing since we last discussed it. I explained that it was not clear where the idea came from or if it would be good for Optometry.

Bob described an organization being formed, the Association of International Glaucoma Societies (AIGS) under the leadership of himself, Roger Hitchings, and Erik Greve. This group was meant to be an umbrella organization for the world's glaucoma societies. Bob felt it was important that Optometry be represented and was willing to work with me to form an “Optometric Glaucoma Society”. The AIGS, now called the World Glaucoma Association (WGA), is “an independent, impartial, ethical, global organization for glaucoma science and care” and was designed to provide leadership and serve as a role model for the different glaucoma societies. Its mission is to optimize the quality of glaucoma science and care through communication and cooperation among international Glaucoma Societies, with Glaucoma Industries, Glaucoma Patient Organizations, and all others in the glaucoma community.

Societies have differing roles, but one in common with most is to serve as a learned society allowing members to meet and learn from each other, as well as from others. Bob offered encouragement and support in obtaining membership for the Optometric Glaucoma Society (OGS) within the AIGS once it is formed and functioning. One request was for the OGS to have entrance criteria similar to that of the other world's glaucoma societies including the need for the majority of a member's activities to be devoted to glaucoma as well as each member having published a paper on glaucoma as first author in a peer-reviewed journal. While some have looked at the OGS as an “elitist” group, this was never our intent. We recognize that the entry criteria may be a struggle for private practitioners to meet, and have a mentoring committee to help in any way possible. An important goal was to become a member of the AIGS, leading to the need for membership criteria to match other societies. We have recently modified our membership criteria as the criteria has changed for the other organizations.

Working with a start-up committee of Tom Lewis, Mike Patella, and John Flanagan, we drew up a list of about 30 individual optometrists and scientists with an interest in glaucoma and invited those individuals to become founding members. We recognized that we may inadvertently miss some capable individuals and hoped that those folks would quickly apply. We decided to not limit membership to optometrists, but rather included scientists active in glaucoma research and ophthalmologists. This has led to some of the leading glaucoma researchers becoming OGS members. Over the past five years, OGS members have received many of the most prestigious awards both in glaucoma as well as from Optometry including receiving the Fry Award, Koch Award, and the AIGS award for the top paper published within a given year related to glaucoma.
Perhaps surprisingly, the OGS has never put on a free-standing continuing education event because we never saw our role as competing with organizations and institutions already putting on fine programs. We felt that we should put our energies in other areas. Our annual meeting is looked upon as a forum to “teach the teachers and leaders,” with attendance limited to members and guests to create an intimate, interactive forum. Year after year, glaucoma specialists, scientists, and optometrists who have never before attended an OGS meeting come away saying this was the “finest glaucoma meeting” they have attended in the past year. We disseminate meeting content through a series of mechanisms including a meeting supplement sent to 35,000 ODs as well as putting handouts and information on our internet site. A meeting that started for a group of 30 friends is now at maximum capacity year after year.

As the concept of developing an Optometry Specialty Society was taking hold, two things occurred that crystallized the role that the OGS may play. First, the Academy of Optometry’s Philadelphia meeting (2000) was about to take place and since 1995, I have had the honor of producing a glaucoma special topics course for the American Academy of Optometry. Through this lecture series, I was able to invite many of the world’s glaucoma experts to speak. With the meeting about to take place, I decided to do something I had never done before. One of the speakers scheduled for Philadelphia, Jost Jonas, agreed to come one day early to meet with a few friends. Jost is one of the world’s leading authorities in optic nerve and glaucoma and I have wanted the opportunity to ask Jost what he sees when he examines the optic nerve. With Mike Patella’s help, we invited several friends to spend the day with Jost. This was truly a remarkable event and while not an OGS meeting, it became our template for what we hoped to accomplish in the future. We saw the possibilities of what a society may do, and how valuable a small interactive meeting may be. I also turned the Academy Special Topics (ST) symposium over to the OGS, with the program becoming an OGS program done in conjunction with the Academy of Optometry. This program has thrived as we have included speakers from the OGS meeting in the Academy of Optometry program. We have been able to provide optometrists the opportunity to hear from some of the world's great glaucoma minds. Speakers at the Special Topics Sessions have included such internationally known colleagues as Bob Weinreb, Felipe Medeiros, Harry Quigley, Douglas Anderson, Anders Heijl, Jeffrey Liebmann, Jack Cioffi, Claude Burgoyne, and Chris Johnson.

The first official OGS meeting took place the day preceding the Academy of Optometry meeting in San Diego in December 2002 with Robert Weinreb, our initial OGS Honoree. The OGS Honoree is the society’s highest award, and is given on a yearly basis to a person who has made significant and long-lasting contributions in the field of glaucoma. Other honorees have included Anders Heijl, Douglas Anderson, Stephen Drance, Harry Quigley, and Paul Kaufman. The Presidential Lecturer is the other award given yearly, with the speaker selected by the OGS president. It was first given in 2006 to Balwantray Chauhan; our 2007 awardee was David Greenfield. The OGS continues to have one meeting per year, occurring immediately before the American Academy of Optometry annual meeting, and has developed several other educational initiatives.

In 2005, the OGS began publishing a glaucoma e-journal, delivered free of charge on a quarterly basis to an individual’s email address. The e-journal provides up to date information, and includes sections on imaging, cases, clinical pearls, and new ideas. Paul Spry, from the United Kingdom is the Editor with Shaban Demirel (U.S.), Brad Fortune (U.S.), and Algis Vingrys (Australia) as the Associate Editors. Individuals can subscribe to the e-journal via the OGS website, www.optometricglaucomasociety.org. Other initiatives include producing a supplement of our meeting highlights as well as a handbook on glaucoma.

In 2006 we held a meeting of educators who teach glaucoma in our schools of optometry and plan to hold a more extensive meeting in 2008. We also hold a yearly glaucoma meeting for Optometric
Residents with one goal being to encourage individuals to become more involved in research. With part of the OGS mission being “to enhance research opportunities in glaucoma,” we established an OGS Ezell Glaucoma Fellowship, in conjunction with the American Optometric Foundation (AOF) that would be awarded on a yearly basis to a postdoctoral research fellow with an optometry background who was involved in glaucoma research. The first OGS-AOF Ezell Fellowship will be awarded in 2008.

Many individuals, including optometrists, do not realize the rich heritage Optometry has in regards to glaucoma research. For example, short wavelength automated perimetry (SWAP) owes its development to Chris Johnson and Pam Sample (OGS members) as well as our own Tony Adams (also an OGS member), while Ron Harwerth (OGS member) from the University of Houston College of Optometry is recognized throughout the world as one of the leading scholars relating structure and function. Many other individuals are involved in glaucoma and optometry, and a number will be evident in an upcoming Feature issue of Optometry and Vision Science (OVS) dedicated solely to glaucoma. This will be the second OVS glaucoma Feature issue. The first in July 2007 was guest edited by John Flanagan, Tom Lewis, and myself (all OGS members). This upcoming issue will be edited by Brad Fortune, Allison McKendrick, and Bob Weinreb (lifetime member, member, and honoree, respectively).

The OGS has grown from an initial group of 29 individuals to 64 ODs, PhDs, and MDs from around the world. It has been OGS’s honor to aid in the education of glaucoma for optometrists and we hope to continue to serve our profession for many years to come.
In Memoriam
Larry J. Alexander, OD
Thom J. Zimmerman, MD, PhD

Founding Members
Paul Ajamian, OD
Jimmy D. Bartlett, OD, DOS, ScD
Richard Bennett, OD
Michael Chaglasian, OD
George Comer, OD
Shaban Demirel, OD, PhD
Mark Dunbar, OD
David Evans, PhD
Murray Fingeret, OD
John Flanagan, McOptom, PhD
Brad Fortune OD, PhD
Ben Gaddie, OD
William A Hare OD, PhD
Ronald Harwerth, PhD
Chris Johnson, PhD
Peter Lalle, OD
Tom Lewis, OD, PhD
Tony Litwak, OD
Vic Malinvosky
John McSoley, OD
Ron Melton, OD
Vincent Michael Patella, OD
Bruce Onofrey
Robert Prouty, OD
Chris Quinn, OD
Daniel Roberts, OD, MS
Pam Sample, PhD
Leo Semes, OD
Joseph Sowka, OD
William Swanson, PhD
James Thimons, OD
Randall Thomas, OD
Robert P. Wooldridge, OD
## OGS Annual Meetings

<table>
<thead>
<tr>
<th>Dates</th>
<th>Location</th>
<th>President’s Lecturer</th>
<th>OGS Honoree</th>
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<tr>
<td>November 7-9, 2016</td>
<td>Anaheim, CA</td>
<td>Felipe A. Medeiros, MD, PhD</td>
<td>George A. Cioffi, MD</td>
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<td>October 5-7, 2015</td>
<td>New Orleans, LA</td>
<td>Jonathan S. Myers, MD</td>
<td>Mae Gordon, PhD</td>
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<td>November 10-12, 2014</td>
<td>Denver, CO</td>
<td>Steven L. Mansberger, MD, MPH</td>
<td>David Garway-Heath, MD, FRCOpth, MD</td>
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<td>October 22-23, 2013</td>
<td>Seattle, WA</td>
<td>Anthony Realini, MD, MPH</td>
<td>Claude Burgoyne, MD</td>
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<td>October 23-24, 2012</td>
<td>Phoenix, AZ</td>
<td>Brad Fortune, OD, PhD</td>
<td>Jost Jonas, MD</td>
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<td>October 11-12, 2011</td>
<td>Boston, MA</td>
<td>Keith Martin, MA, BM, BCh, DM, MRCP, FRCOpth, ALCM</td>
<td>Jeffrey Liebmann, MD</td>
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<td>November 15-16, 2010</td>
<td>San Francisco, CA</td>
<td>Kuldev Singh, MD, MPH</td>
<td>Wallace L.M. Alward, MD</td>
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<td>November 9-11, 2009</td>
<td>Orlando, FL</td>
<td>Christopher A. Girkin, MD</td>
<td>George L. Spaeth, MD</td>
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<td>October 20-22, 2008</td>
<td>Anaheim, CA</td>
<td>Theodore Krupin, MD</td>
<td>Robert Ritch, MD</td>
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<td>October 22-23, 2007</td>
<td>Tampa, FL</td>
<td>David Greenfield, MD</td>
<td>Paul Kaufman, MD</td>
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<td>December 5-6, 2006</td>
<td>Denver, CO</td>
<td>Balwantray Chauhan, PhD</td>
<td>Harry Quigley, MD</td>
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<td>December 7, 2005</td>
<td>San Diego, CA</td>
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<td>Stephen Drance, OC, MD</td>
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<td>December 8, 2004</td>
<td>Tampa, FL</td>
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<td>Douglas R. Anderson, MD</td>
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<td>December 9, 2003</td>
<td>Dallas, TX</td>
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<td>Anders Heijl, MD</td>
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<tr>
<td>December 11, 2002</td>
<td>San Diego, CA</td>
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<td>Robert N. Weinreb, MD</td>
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Optometric Glaucoma Society Ezell Fellows
2016 Jack Phu, BOptom, MPH
2015 Lakshmi Priya Rajagopalan, BS, PhD
2013 Kevin Ivers, OD, PhD
2012 Kevin Ivers, OD, PhD
2011 Nimesh Patel, OD, PhD
2010 Nimesh Patel, OD, PhD
2008 Joe Wheat, OD, PhD

Founders Award
2016 Gerhard Zinser, PhD
2015 Harry A. Quigley, MD
2012 Robert N. Weinreb, MD
2011 Douglas R. Anderson, MD

Distinguished Service Award
2016 Ben Gaddie, OD
2013 John G. Flanagan, MCOPtom, PhD
2012 Louis J. Catania, OD
2011 Tom L. Lewis, OD, PhD
2010 V. Michal Patella, OD
2008 Murray Fingeret, OD

Research Excellence Award
2014 Donald Hood, PhD
2013 Ronald S. Harwerth, OD, PhD
2009 Sir Peng Tee Khaw, MD, FRCOphth

Corporate Partnership Award
2016 Rick Halprin
2013 Richard D. Bay
Congratulations to the 2016 OGS Ezell Fellow:

Jack Phu, B. Optom, MPH, PhD Candidate
University of New South Wales School of Optometry
Kensington, New South Wales, Australia

Welcome New OGS Members

Agustin L. Gonzalez, OD
Richardson, TX

Len Koh, OD, PhD, MBA
Arizona College of Optometry
Glendale, AZ

Julie Torbit, OD
Indianapolis Eye Care Center
Indianapolis, IN

OGS Executive Committee
Optometric Glaucoma Society
16th Annual Meeting

Chicago, IL
October 11-14, 2017