

AGS **2023**

ANNUAL MEETING

★ AUSTIN, TEXAS
MARCH 2-5

HYBRID: IN-PERSON & VIRTUAL

PROGRAM



AMERICAN
GLAUCOMA
SOCIETY



AGS MISSION STATEMENT

The American Glaucoma Society is comprised of glaucoma specialists dedicated to sharing clinical and scientific information for the benefit of patients, colleagues, fellows, and residents.

The American Glaucoma Society thanks Alcon for supporting the educational portions of the 33rd AGS Annual Meeting.



Welcome to AGS 2023

Dear Colleagues,

Welcome to the 33rd Annual Meeting of the American Glaucoma Society!

The program committee has laid out an outstanding educational and social program that I am sure we will all enjoy. While we are all here to learn, Austin, our host city, is a special community. The city boasts a vibrant art scene, great dining and a host of nearby outdoor activities. It is well known as one of the live music capitals of the world where the world's biggest stars cross its many stages, but at our meeting, we are among glaucoma's brightest. That said, we're happy that you can join us in saluting some of these stars as our 2023 honorees:

- Guest of Honor – Paul F. Palmberg, MD, PhD
- AGS Lecturer – Pradeep Y. Ramulu, MD, PhD
- Surgery Day Lecturer – Jody R. Piltz-Seymour, MD
- President's Award – Anne L. Coleman, MD, PhD
- Innovator Award – Douglas E. Gaasterland, MD
- International Scholar – Jonathan G. Crowston, MD, PhD
- Clinician Scientist Lecturer – Joshua D. Stein, MD, MS
- Outstanding Educator – Eydie G. Miller Ellis, MD
- Humanitarian Award – Alana L. Grajewski, MD

Your AGS Program Committee has produced a stellar meeting that showcases the highest-caliber quality of papers, posters and symposia. Snap up every opportunity to hear luminaries and participate in discussions on every aspect of our field, including topics in these can't-miss sessions:

- Surgery Day Lecture: "Here Be Dragons: Surgical Care at the Edge of the Map" by Jody R. Piltz-Seymour, MD (Thursday, 12:07 pm)
- AGS Lecture: "Mobility and Glaucoma: Repercussion, Room, or Remedy?" by Pradeep Ramulu, MD, PhD (Friday, 2:43 pm)
- TOP 5 Plenary Paper Presentations (Saturday, 9 am)

We hope our program schedule can help you create the experience that's best for you. Are you looking forward to conversations at a roundtable? Knowledge growth at the Coding Workshop? The options abound. Don't forget to leave time to see the best and feel the beat of this live music capital, Austin!

Christopher A. Girkin, MD, MSPH
President

Michele C. Lim, MD
Program Chair

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Leadership and Program Committee

Board of Directors

Christopher A. Girkin, MD, MSPH – President
 Leon W. Herndon Jr., MD – Vice President
 JoAnn A. Giaconi, MD – Secretary
 Lisa Fran Rosenberg, MD – Treasurer
 Samuel P. Solish, MD – Councilor to AAO
 Lama A. Al-Aswad, MD, MPH – Member-at-Large
 Kateki Vinod, MD – Member-at-Large
 Mildred M. G. Olivier, MD – Member-at-Large
 Angela V. Turalba, MD, MMS – Member-at-Large
 Kelly W. Muir, MD – Education and Communication Chair
 Richard K. Lee, MD, PhD – Research Chair
 Michele C. Lim, MD – Program Committee Chair
 Felipe A. Medeiros, MD, PhD – Bylaws & Strategic Planning Chair
 Geoffrey T. Emerick MD – Patient Care Chair
 Ronald Leigh Fellman, MD – Past President
 Donald L. Budenz, MD, MPH – Past President
 Thasarat S. Vajaranant, MD – Lead Ambassador
 Janey L. Wiggs, MD, PhD – Nominating Committee Chair

Executive Vice President

Alan L. Robin, MD

Past Presidents

George L. Spaeth, MD: 1986-1988
 Richard J. Simmons, MD: 1989-1990
 Douglas R. Anderson, MD: 1991-1992
 Allan E. Kolker, MD: 1993-1994
 M. Bruce Shields, MD: 1995-1996
 E. Michael Van Buskirk, MD: 1997-1998
 Robert L. Stamper, MD: 1999-2000
 Richard A. Lewis, MD: 2001-2002
 Richard P. Wilson, MD: 2003-2004
 Gregory L. Skuta, MD: 2005-2006
 Robert N. Weinreb, MD: 2007-2008
 Theodore Krupin, MD: 2009-2010
 Jeffrey M. Liebmann, MD: 2011-2012
 Kuldev Singh, MD, MPH: 2013-2014
 David S. Greenfield, MD: 2015-2016
 Cynthia Mattox, MD: 2017-2018
 Dale K. Heuer, MD: 2019-2020
 Donald L. Budenz, MD, MPH: 2020-2021
 Ronald Leigh Fellman, MD: 2021-2022

Program Committee

Michele C. Lim, MD – Chair
 Kouros Nouri-Mahdavi, MD, MSC – Vice Chair
 Sonya B. Shah, MD – Surgery Day Co-chair
 Joanne C. H. Wen, MD – Surgery Day Co-chair
 Husam Ansari, MD, PhD
 Craig J. Chaya, MD
 Vikas Chopra, MD
 Qi N. Cui, MD, PhD
 Shivani S. Kamat, MD
 Rachel W. Kuchtey, MD, PhD
 Leo K. Seibold, MD
 Pradeep Y. Ramulu, MD, PhD – Ex Officio

Goal of the AGS Annual Meeting

The goal of this meeting is to provide Members and guests of the American Glaucoma Society a professionally stimulating forum in which they can exchange information and ideas regarding the diagnosis and treatment of glaucoma and present new developments in glaucoma research.

Administrative Offices

American Glaucoma Society
 655 Beach Street
 San Francisco, CA 94109
 415.561.8587 FAX 415.561.8531
 ags@aao.org
 www.americanglaucomasociety.net

Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Academy of Ophthalmology and the American Glaucoma Society. The American Academy of Ophthalmology is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation Statement

The American Academy of Ophthalmology designates this other (blended live and internet live) activity for a maximum of 21.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

AGS Foundation



Mission of the Foundation

The mission of the American Glaucoma Society Foundation is to support glaucoma research and education and to promote excellence in the care of patients with glaucoma.

The Board of Directors is charged with overseeing these efforts by identifying unmet needs, devising strategies to address them, and advancing the field through support of research, education, and training.

Each of the stakeholders in our field (patients, clinicians, scientists, industry, government and non-governmental organizations) plays a vital role; collaboration is critical for success. We strive to support and create programs that will make the difference in our field and for our patients.

Help us make a difference!
Make your donation today!

American Glaucoma Society Foundation
PO Box 884648
Los Angeles, CA 90088

Board of Directors

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Lisa Fran Rosenberg, MD – Treasurer
Lama A. Al-Aswad, MD, MPH
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Ronald Leigh Fellman, MD
Richard K. Lee, MD, PhD
Michele C. Lim, MD
Felipe A. Medeiros, MD, PhD
Kelly W. Muir, MD
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Angela V. Turalba, MD, MMS
Thasarat S. Vajaranant, MD
Kateki Vinod, MD
Janey L. Wiggs, MD, PhD

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Gary Sternberg, MD

AGS Policies

Annual Meeting Conflict of Interest Issues

The AGS Program Committee takes conflicts of interest very seriously and expects all AGS Members to do the same. All participants in the program have submitted a Financial Disclosure Form that has been reviewed by the Program Chairs and Program Committee. A Conflict of Interest Resolution Form is used when deemed appropriate. An example of the Conflict of Interest Resolution Process is shown below. If you have any concerns about the content of or perceived conflicts of interest in the Annual Meeting, please bring them to the attention of the Program Committee Chair, Dr. Michele Lim, or the Vice Chair, Dr. Kouros Nouri-Mahdavi, or the Chair of the AGS Ethics Task Force, Dr. Leon Herndon, as soon as possible.

Financial Conflict Resolution Process

All financial conflicts of interest must be resolved. CME providers require that everyone who is in a position to control the content of an educational activity disclose all financial relationships with any commercial interest within the past 24 months. Those whose conflicts are not resolved must be disqualified.

- Presenter limits the conflict to report information that is related to the conflict without recommendations
- Presenter references the “best available evidence in literature” and the grade or level of that evidence and identifies the conclusions that the evidence supports
- Presenter steps aside and allows someone else to present

Disclosure and Resolution of Conflict of Interest Policy

The AGS ensures that all leaders, volunteers, staff, or any individuals involved in planning and production of AGS activities will disclose any and all potential conflicts of interest and resolve them prior to the activity.

Procedure

The process for ensuring compliance with this policy applies a multi-step approach, including prevention and monitoring/evaluation.

Identification

All individuals who are involved with planning activities must sign and submit a Financial Disclosure Form prior to planning the activity. All financial relationships with any commercial interest must be disclosed. Individuals subject to this requirement include, but are not limited to, activity course directors and program chairs, planning committee members, faculty/speakers/presenters, authors, editors, expert reviewers, moderators, panel members, and AGS staff in position to control content. All financial disclosures must be provided through the AGS online disclosure form or in another pre-approved format.

Relevant financial relationships must be disclosed to learners prior to the continuing education activity. Information provided in this manner includes the name of the individual, the name of the commercial interest(s), and the nature of the relationship the person has with the commercial interest(s). If an individual has no relevant relationship, then this must also be disclosed in advance to the learning audience.

Resolution

All faculty and non-faculty involved with the planning or implementation of an activity who disclose a conflict of interest must resolve that conflict prior to the activity. Appropriate mechanisms for resolution will be identified by the Program Committee and can include the following:

Non-faculty Resolution

A non-faculty member (e.g., staff) who has an identified conflict of interest will be asked to excuse themselves from any discussion/decision-making process where the conflict of interest would come into play.

Faculty Member Resolution

Peer Review: A faculty member with a conflict of interest must submit his/her work to a panel for peer review. Recommendations of the panel, as they relate to the conflict, must be taken. If the faculty member refuses the recommendations, they will be asked to resign and a new faculty member will be appointed.

Or

Evidence Based: Material to be presented must be the best available evidence in the literature, supported by the grade or level of that evidence and by identifying the conclusions that the evidence supports.

Or

Other methods deemed appropriate by AGS.

Refusal to Disclose**Non-faculty**

If a non-faculty member refuses to disclose conflicts of interest, then that person will be asked to step down from the position requiring disclosure of conflicts of interest.

Faculty Member

If a faculty member refuses to disclose, they will be replaced and not considered to present until such disclosures are made.

Additional Information

Additional information may be requested of faculty/non-faculty to assist in the resolution of conflict of interest. Resolution of the conflict of interest must also be disclosed to the audience in advance.

Off-Label Disclosure

In addition, all faculty members are required to disclose to learners off-label and/or investigational use of a product and any limitations on the information presented, including preliminary data, anecdotal evidence, or unsupported opinion.

Evaluation/Monitoring for Bias

CME activity participants are surveyed about perceived commercial bias as part of the post-activity evaluation.

Diversity Policy

The Board of Directors of the AGS recognizes that this organization is best served by representation from the broadest possible diversity of member background, experience, and professional activities setting. As a policy, the Board of Directors is committed to diverse representation on the Board and its committees and staff without regard to race, religion, national origin, sexual orientation, age, gender, or physical disability.

CME Violations

When a potential violation of Accrediting Council for Continuing Medical Education rules occurs during a CME-generating activity at an AGS Annual Meeting or other AGS event, the Program Committee Chair, if they have not personally witnessed the violation, will initiate an investigation into the occurrence by speaking with selected members of the audience, as well as the speaker(s) charged with the violation. The Program Committee Chair may request copies of the presentation materials, including slides and outlines. The Program Committee will review the results of the investigation. The Program Committee may require consultation with the CME-accrediting body to determine if a violation has occurred. If it is determined that a violation exists, the Program Committee Chair will communicate directly with the offender to educate them on the nature of the violation, review ACCME rules, and issue a warning that potential penalties for future violations may include inability to present at future meetings. Copies of all communication in this regard will be filed with the CME accrediting body.

If an individual commits a second violation, the Program Committee Chair will convene the Program Committee to review the details of both violations and to issue a recommendation to the AGS Board of Directors (BOD) regarding an appropriate penalty for the individual. The AGS BOD may accept, deny, or modify the Program Committee recommendations. The Program Committee Chair (alone or together with the AGS president) will then communicate this final decision to the offending individual.

AGS Board Approved – October 2014

CME Financial Disclosures of Board of Directors, Program Committee, and Participants

Category	Code
Ownership Interest	OI
Research Grant to my Institution (principal or named investigator)	RGI
Research Grant to my private practice	RGP
Individual Stock - Private Company	SPR
Individual Stock - Public Company	SPU
Employee	E
Stock Options	SO
Honorarium	H
Lecture Fees	L
Consultant/Advisor Fees	C
Executive Role	EX
Royalty/Patent Beneficiary	RP
Independent Contractor	IC
Other	O

Board of Directors

Al-Aswad, MD, MPH, Lama

OI - Visi Health Technologies, EnVision Health Technologies
 EX - Visi Health Technologies, EnVision Health Technologies, Save Vision Foundation
 O - AI Optics (Medical advisor), Virtual Field (Medical advisor)
 C - World Care Clinical, Bausch & Lomb Americas Inc., Alcon
 RGP - Save Vision Foundation
 RGI - Mother Cabrini Foundation, Topcon Medical Systems Inc.

Budenz, MD, MPH, Donald

L - New World Medical Inc., Carl Zeiss Meditec
 C - Bausch and Lomb, Nicox, Iviv Therapeutics, Heru
 RP - Carl Zeiss Meditec

Fellman, MD, Ronald

C - Beaver-Visitec Inc., Sanoculis
 RGP - Allergan
 L - Olleyes
 SO - Olleyes
 RP - Nova Eye

Girkin, MD MSPH, Christopher

RGI - Heidelberg Engineering Inc., National Eye Institute, EyeSight Foundation of Alabama
 C - Topcon, Inc., Amydis, Inc.

Herndon, MD, Leon W.

C - Alcon, Allergan, Genentech, New World Medical, Aerie, Ocular Therapeutix, Equinox, Glaukos, EliosVision, Graybug
 SO - Sight Sciences
 RGI - Ocular Therapeutix

Lee, MD, PhD, Richard K.

O - Iridex (Donation to Bascom Palmer Eye Institute)

Lim, MD, Michele

RGI - Santen, Inc.
 H - Santen, Inc.
 C - Santen, Inc.

Medeiros, MD, PhD, Felipe

RGI - Carl Zeiss Meditec, Google, Heidelberg Engineering, Reichert
 C - Carl Zeiss Meditec, Allergan, Aerie Pharmaceuticals, Annexon, Biogen, Galimedix, Novartis, Stealth BioTherapeutics, Reichert, Stuart Therapeutics
 H - Apple, Inc.

Olivier, MD, Mildred M. G.

C - Aerie
 O - NIH R13 Grant
 L - Bausch and Lomb
 RGP - Allergan

Robin, MD, Alan L.

E - American Glaucoma Society
 C - Versant Healthcare, Perfuse Therapeutics, Nanodropper
 RGP - National Institutes of Health

Turalba, MD, MMS, Angela

C - BVI

Wiggs, MD PhD, Janey Lee

C - Editas, Allergan, Regenxbio, Broadwing Bio
 RGI - Aerpio
 RGI - NIH/NEI

Program Committee

Chaya, MD, Craig J.
C – Ivantis, Abbvie
RGI – Ivantis, Abbvie

All Participants

Ahmed, MD, Iqbal Ike K.
RGI – Glaukos
H – Glaukos
L – Glaukos
C – Glaukos

Barton, MD, FRCP, FRCS, Keith
H – Alcon, Allergan, Carl Zeiss, Santen
Pharmaceutical Co. Ltd, Eye Tech
Care, JamJoom
C – Alcon, AbbVie Ltd, Allergan, Carl
Zeiss, Ivantis, Santen Pharmaceutical
Co. Ltd, Radiance Therapeutics,
Glaukos, iStar, EyeD Pharma, ELT
Sight, Sight Sciences, Alimera Science,
Shifamed/Myra Medical, Tarsier
Pharma, Roche, Nova Eye Inc.

Bhorade, MD, Anjali
RGI – NIH

Bourne, MD, Carla
L – Sight Sciences

Burgoyne, MD, Claude F.
RGI - Heidelberg Engineering

Camejo, MD, Larissa
C - Sight sciences, Aerie, Allergan
L – Aerie, Allergan

Challa, MD, Pratap
RP - AERIE Pharmaceutical

Chang, MD, Peter T.
C - New World Medical

Garway-Heath, MD FrCOphth,
David
RGI - Heidelberg Engineering, Topcon,
Carl Zeiss Meditec
C - CenterVue/Renevio

Jain, MD, Shelly Gupta
H - New World Medical

Lee, MD, Daniel
RGI – Allergan, Glaukos
L - Glaukos

Miller Ellis, MD, Eydie
C - Allergan/AbbVie
O - Avisi (advisor)

Montesano, MD, Giovanni
C - CenterVue - iCare

Mosaed, MD, Sameh
RGI - Sightsciences
C - Bausch and Lomb

Piltz-Seymour, MD, Jody
L - Aerie Pharmaceuticals
C - Aerie Pharmaceuticals

Provencher, MD, Lorraine M.
H – Allergan
L – Allergan
C – Allergan

Quigley, MD, Harry A.
C - IDX

Razeghinejad, MD, Reza
RGI - New World Medical

Rhee, MD, Douglas J.
RGI – Abbvie/Allergan, Glaukos, Ocular
Therapeutix
H - Ocular Therapeutix
C – Abbvie/Allergan, Ivantis, Alcon,
Aerie

Salim, MD, Sarwat
H – Aerie Pharmaceuticals
L - Aerie Pharmaceuticals

Samuelson, MD, Thomas W.
C – Alcon, Johnson & Johnson Vision

Singh, MD, Inder Paul
RGI – iStar Medical
L – iStar Medical

Smith, MD, Oluwatosin
RGP – Allergan, Glaukos
L – Allergan, Aerie, Bausch and Lomb
C – Allergan, Aerie, Alcon, Bausch and
Lomb, Santen, New World Medical,
Glaukos
H - Iridex
SPU - Nova Eye

Tanaka, MD, George
L – Aerie, Allergan, SightSciences, Bausch
& Lomb
H – EyePoint Pharmaceuticals, Nova Eye
Medical

Tanna, MD, Angelo P.
C – Alcon, Apotex, Sandoz

Thmopson, MD, MPH, Atalie
C – Topcon Medical Systems, Inc.

Zangwill, PhD, Linda
RGI - Heidelberg Engineering, Carl Zeiss
Meditec, Optovue, Topcon
C - Topcon

No Relevant Financial Relationship

Addis, MD, Victoria
 Alward, MD, Wallace L. M.
 An, MD, MBA, Jella Angela
 Ansari, MD, PhD, Husam
 Argus, MD, William A.
 Armstrong, MD, PhD, James J.
 Boland, MD, PhD, Michael
 Borges, Angelina
 Bradley, PhD, Christopher
 Brandt, MD, James D.
 Briceland, MD, Daniel J.
 Brown, MD, PhD, Ninita
 Capitena Young, MD, Cara
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 Chambers, MD, Wiley
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 Chen, MD, Aiyin
 Chen, MD, Philip P.
 Chen, MD, Teresa C.
 Chopra, MD, Vikas
 Cioffi, MD, Jack
 Coleman, MD, PhD, Anne L.
 Conner, MD, PhD, Ian P.
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 Garg Shukla, MD, Aakriti
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Gupta, MD, Divakar
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 Prasad, OD, Ranjoo
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Rachapudi, BS, Sruti Sai
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 Siegfried, MD, Carla
 Singh, BS, Rishabh
 Sivaraman, MD, Kavitha
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 Sud Hogue, MD, Ambika
 Syed, MD, MEHP, Mishra
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 Upadhyaya, DNB, DOMS, Swati
 Vajaranant, MD, MHA, Thasarat
 Suta Butr
 Vazquez, MD, PhD, Luis E.
 Vest, MD, Zachary
 Vinod, MD, Kateki
 Wellik, MD, Sarah R.
 Wen, MD, Joanne
 Williams, MD, Ruth
 Woodke, COE, Joy
 Xu, MD, PhD, Benjamin
 Zhang, MD, Amy
 Zhou, MD, Yuija

All relevant financial relationships
 have been mitigated

Meeting Information

Notification

A written, printed, or electronic notice of any annual or special meeting of the Members, stating the time, place, and purposes thereof, shall be sent to each Member by the Secretary, or, in the case of their death, absence, incapacity, or refusal, by a person designated by the Board of Directors, at least sixty (60) days before the date of the meeting by leaving such notice with the Member or at their residence or usual place of business; by mailing the same, postage prepaid, directed to them at their address as last recorded on the books of the Society; or by electronic communication (e-mail) directed to an electronic address provided by the Member. Notice of a meeting need not be given to a Member if such Member, or their attorney thereunto duly authorized, waives such notice by a writing filed with the records of the meeting.

Meeting Objectives

After attending this program, participants should be able to:

- Describe recent medical advances in the diagnosis, management, and treatment of glaucoma in the United States and the world
- Discuss different diagnostic and prognostic tools to provide the best possible treatment options and care to patients
- Critically evaluate/explain new and traditional types of glaucoma surgery
- Examine and discuss advances in glaucoma science and implications for glaucoma therapy

CME Credit

Accreditation Statement

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How to Claim Your CME Credits

Claim your CME credits using the online form on the AGS website, www.americanglaucomasociety.net.

Self-Assessment CME

Successful completion of this CME activity, which includes participation in the evaluation component, enables the learner to satisfy the Lifelong Learning, Self-Assessment, Improvement in Medical Practice and/or Patient Safety requirements for the American Board of Ophthalmology's Maintenance of Certification (MOC) program. It is the CME activity provider's responsibility to submit learner completion information to ACCME for the purpose of granting MOC.

FDA Status Disclaimer

Some material on recent developments may include information on drug or device applications that are not considered community standard, that reflect indications not included in approved FDA labeling, or that are approved for use only in restricted research settings. This information is provided as education only so physicians may be

aware of alternative methods of the practice of medicine, and should not be considered endorsement, promotion, or in any way encouragement to use such applications. The FDA has stated that it is the responsibility of the physician to determine the FDA status of each drug or device they wish to use in clinical practice, and to use these products with appropriate patient consent and in compliance with applicable law.

The AGS provides the opportunity for material to be presented for educational purposes only. The material represents the approach, ideas, statement, or opinion of the presenter and/or author, not necessarily the only or best method or procedure in every case, or the position of the AGS. The material is not intended to replace a physician's own judgment or give specific advice for case management. The AGS specifically disclaims any and all liability for injury or other damages of any kind for any and all claims that may arise out of the use of any technique demonstrated or described in any material by any presenter and/or author, whether such claims are asserted by a physician or any other person.

Photographing and Recording of Exhibits and Program

Attendees wishing to photograph or record an exhibit must secure permission from the exhibiting company before doing so. No portion of the scientific program or posters may be photographed, audiotaped, or videotaped without the express written consent of the AGS and presenter.

Target Audience

The target audience for the AGS 33rd Annual Meeting is glaucoma specialists, ophthalmologists, researchers, practicing physicians, ophthalmology residents, and fellows.

Exhibits

Plan to visit the exhibits located in Moontower Hall at the Marriott Austin Downtown and the Virtual Exhibit Hall on the Virtual Meeting Platform. Exhibiting companies will showcase the newest and most innovative ophthalmic products and services.

2024 Annual Meeting Program Submissions

For those interested in submitting an abstract for the 2024 Annual Meeting, the online electronic submission program will be available in September 2023. Please visit the American Glaucoma Society's website, www.americanglaucomasociety.net, to submit an online abstract by the deadline.

Registration Information

Attendance Verification

Attendees must verify their attendance to claim CME credit for attending the AGS 33rd Annual Meeting. Please refer to the CME Credit section in Meeting Information for more details.

Attendance verification letters will be available at the AGS Registration Desk, located in the Waterloo Foyer, from Thursday, March 2, to Sunday, March 5, or by e-mail request to ags@aao.org.

Registration Locations, Speaker Ready Room, and Hours

Registration will be located in the Waterloo Foyer from Wednesday, March 1, to Sunday, March 5. Any questions about the AGS 33rd Annual Meeting and/or social functions may be answered at this location. The Speaker Ready Room, located in room 502, will be available during registration hours starting Wednesday, March 1. Registered participants will receive their badge at the Registration Desk. The AGS Registration Desk will be open as follows:

Wednesday, March 1	2:00 PM – 8:00 PM
Thursday, March 2	7:00 AM – 5:00 PM
Friday, March 3	7:00 AM – 5:00 PM
Saturday, March 4	7:00 AM – 5:00 PM
Sunday, March 5	7:00 AM – 9:00 AM

Payment of Fees

The AGS accepts cash, checks payable to the AGS, MasterCard, Visa, and American Express.

Social Events

Day/Date/Event	Time	Location/Room
Thursday, March 2		
Continental Breakfast	7:00 AM – 9:00 AM	Moontower Hall
Super Bowl of Grand Rounds: Cases & Cocktails Working Reception (AGS Member Only)	6:30 PM – 8:30 PM	Diamond Theatre (Waller ABCD)
Friday, March 3		
Morning Yoga*	7:00 AM – 7:50 AM	Zanzibar Restaurant
Continental Breakfast	7:00 AM – 9:00 AM	Moontower Hall
Saturday, March 4		
Fun Run/Walk*	6:30 AM – 7:30 AM	Hotel Lobby
Continental Breakfast	7:00 AM – 9:00 AM	Moontower Hall
AGS Closing Reception	6:30 PM – 9:00 PM	Zanzibar Restaurant
Sunday, March 5		
Continental Breakfast	7:00 AM – 9:00 AM	Waller Foyer

* Indicates a separate fee for participation

Messages & Lost and Found

There will be a lost and found box and message board at the AGS Registration Desk, located in the Waterloo Foyer registration area. Please check here first for your messages and/or lost items.

Posters

Electronic Posters will be displayed in the Moontower Hall throughout the meeting, and are also available on the Virtual Meeting Platform.

Exhibitors

Exhibitors must check in at the AGS Registration Desk, located in the Waterloo Foyer on Wednesday, March 1, to pick up their packet and badge(s). One registration packet is provided per exhibiting company.

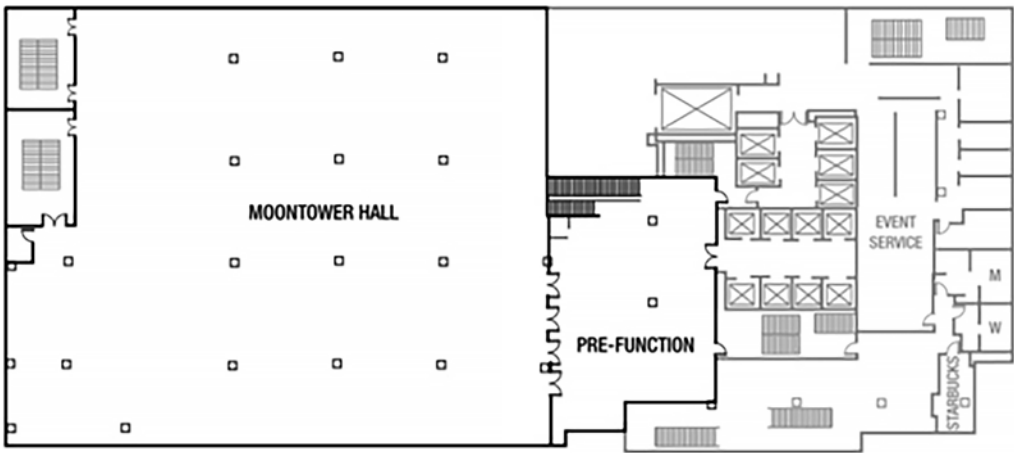
Registration Amenities

AGS Member/Non-member registration includes full access to the Virtual Meeting Platform, daily continental breakfasts and breaks, and the AGS Closing Reception.

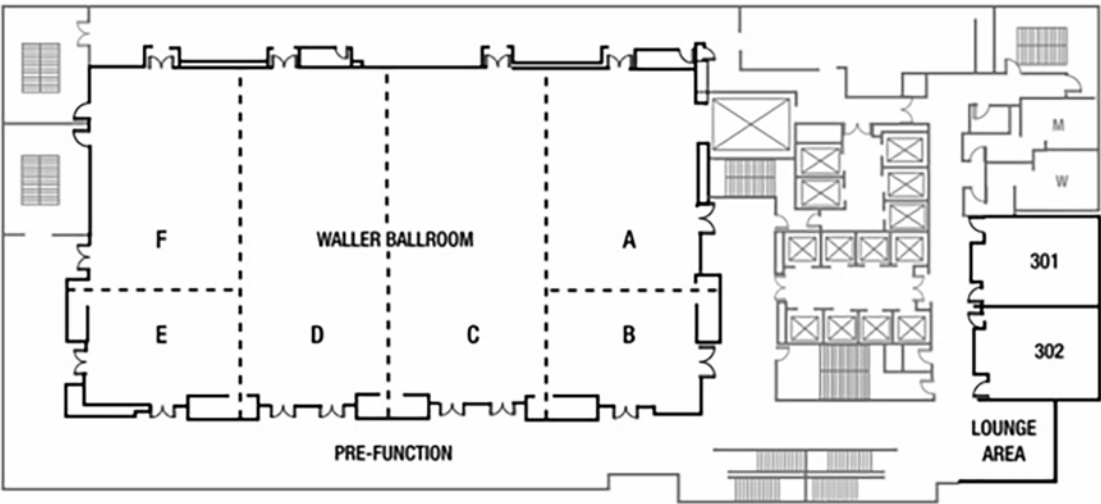
Spouse/Guest registration includes all social events: use of the Spouse/Guest Hospitality Room, daily continental breakfasts, and the AGS Closing Reception.

Hotel Map

Level 2
Exhibit Hall

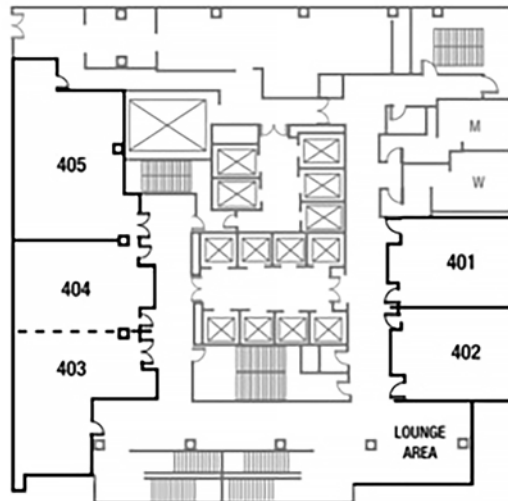
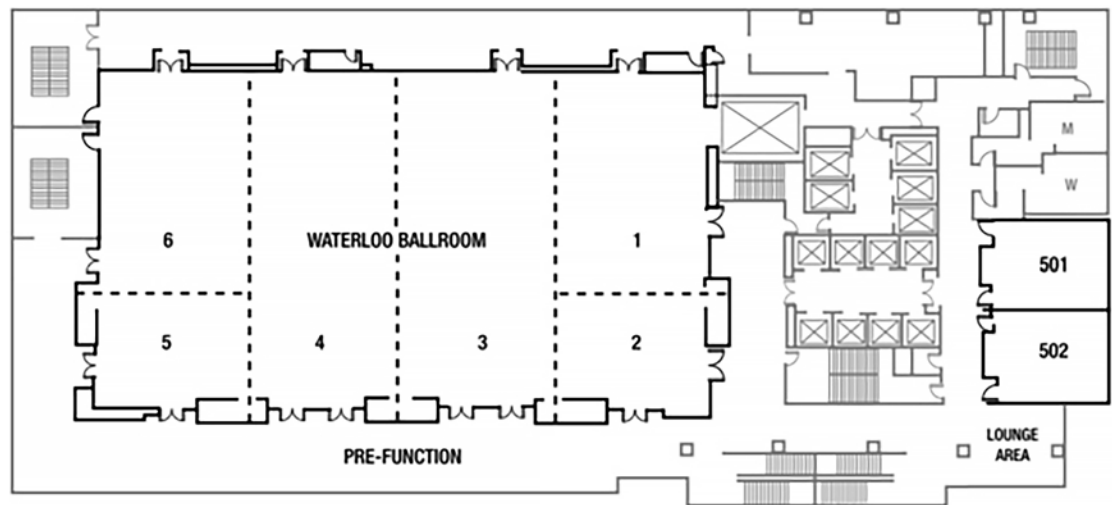
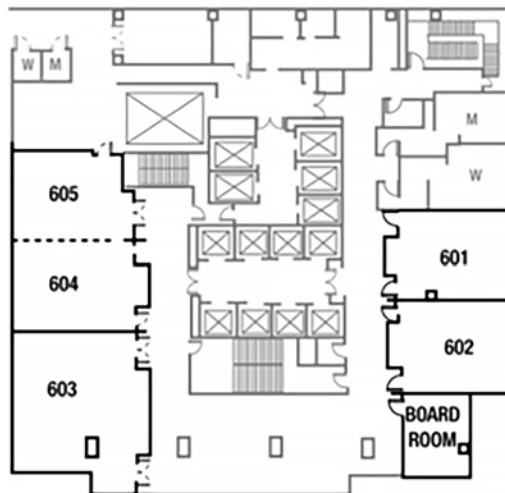


Level 3
Meeting Space



AGS Annual Meeting Locations

Waterloo Ballroom	General Sessions
Moontower Hall	Exhibits & Top Posters
Waterloo Foyer	Registration
Room 502	Speaker Ready Room
Waller ABCD	Diamond Theatre

**Level 4
Meeting Space****Level 5
Meeting Space****Level 6
Meeting Space**

History of the AGS

The American Glaucoma Society was founded in 1985 with the stated purpose of maintaining and improving “the quality of patient care primarily through improvement, exchange and dissemination of information and scientific knowledge pertinent to glaucoma and related diseases.”

Although Drs. Douglas Anderson and Jonathan Herschler had organized the very successful Annual North American Glaucomatologists’ Learning Ensemble (ANGLE) in the 1970s to provide in-depth focus on glaucoma research topics of mutual interest, insightful members of the glaucoma community felt that an additional forum for both clinical and scientific interchange among glaucoma specialists was needed.

In May 1984, Drs. Max Forbes and Bruce Shields began to discuss the concept of an American Glaucoma Society. Drs. George Spaeth and Richard Simmons subsequently were persuaded to join in formalizing this concept and to help organize the AGS. Nine other leading members of the glaucoma community also were recruited to participate in this endeavor. An initial meeting of the group took place in Atlanta on November 11, 1984, at which everyone’s full agreement and cooperation was established.

Dr. Simmons prepared a Constitution and Bylaws for the AGS, which was incorporated in the Commonwealth of Massachusetts on November 6, 1986. The 13 founding members subsequently approved the Constitution and Bylaws in San Francisco, California, on September 29, 1985. The first elected officers included George L. Spaeth, President; Richard J. Simmons, Vice-President; Harry A. Quigley, Secretary; and John Hetherington Jr., Treasurer. The new executive committee met in the spring of 1986, at which time a list of invitations to 69 charter members was compiled. In 1986, 82 individuals became charter members of the newly formed Society.

In honor and memory of Dr. Charles D. Phelps, one of the founding members and former chair of the Department of Ophthalmology at the University of Iowa, who died in September 1985, the first meeting of the AGS was held in Iowa City, Iowa, in June 1987. Dr. M. Bruce Shields served as Chair of the Program Committee for the Society’s inaugural meeting as well as the next four, and Dr. Stephen Drance delivered the first AGS Lecture. A Washington Hawthorne tree was planted in Dr. Phelps’ memory and still stands on the University of Iowa Medical Center campus, just outside of the office of the Chair of the Department of Ophthalmology and Visual Science.

In Iowa City, Dr. Spaeth quoted Sir Winston Churchill, stating, “We are at the beginning of the beginning.” Thirty-four years and 32 meetings later, the AGS has grown to include over 1,500 members and has become one of American ophthalmology’s premier and most influential subspecialty societies.

In Memoriam

Sohan Hayreh, MD
1927-2022

**Thirteen Founding Members
of the American Glaucoma
Society**

Douglas R. Anderson, MD
David G. Campbell, MD
Max Forbes, MD
John Hetherington Jr., MD*
H. Dunbar Hoskins Jr., MD
Allan E. Kolker, MD*
William E. Layden, MD
Charles D. Phelps, MD*
Irvin P. Pollack, MD*
Harry A. Quigley, MD
M. Bruce Shields, MD
Richard J. Simmons, MD
George L. Spaeth, MD

**Additional 69 Charter
Members of the American
Glaucoma Society**

Robert C. Allen, MD*
Jorge A. Alvarado, MD*
Mansour F. Armaly, MD*
Frank S. Ashburn Jr., MD
George S. Baerveldt, MD*
Bernard Becker, MD*
Hugh Beckman, MD
C. Davis Belcher III, MD*
A. Robert Bellows, MD*
Richard F. Brubaker, MD*
Paul A. Chandler, MD*
John S. Cohen, MD
Marshall N. Cyrlin, MD
Gordon R. Douglas, MD, FRCSC
Stephen M. Drance, MD*
David K. Dueker, MD
David L. Epstein, MD*
Douglas E. Gaasterland, MD
Joseph S. Haas, MD
Thomas S. Harbin Jr., MD
Sohan S. Hayreh, MD, DSc*
Jonathan Herschler, MD
Elizabeth A. Hodapp, MD

B. Thomas Hutchinson, MD*
Murray A. Johnstone, MD
Frederick M. Kapetansky, MD
Michael A. Kass, MD
Paul L. Kaufman, MD
Edwin U. Keates, MD*
Theodore Krupin, MD*
Carl Kupfer, MD*
Raymond P. LeBlanc, MD
Pei-Fei Lee, MD*
Ralph Z. Levene, MD*
Paul R. Lichter, MD
Alan I. Mandell, MD*
Wayne F. March, MD*
A. Edward Maumenee, MD*
Samuel D. McPherson Jr., MD*
David W. Meltzer, MD, PhD
Donald S. Minckler, MD
Donald J. Morin, MD*
Robert A. Moses, MD*
Paul F. Palmberg, MD, PhD
Richard K. Parrish II, MD
Jonathan E. Pederson, MD*
Edward S. Perkins, MD*
Steven M. Podos, MD*
Ronald L. Radius, MD
Kenneth T. Richardson Jr., MD
Thomas M. Richardson, MD
Robert Ritch, MD
Alan L. Robin, MD
Harold G. Scheie, MD*
Arthur L. Schwartz, MD
Bernard Schwartz, MD, PhD*
Marvin L. Sears, MD
Robert N. Shaffer, MD*
Jess A. Smith, MD*
Robert L. Stamper, MD
H. Saul Sugar, MD*
John V. Thomas, MD*
E. Michael Van Buskirk, MD
Paul A. Weber, MD
Robert N. Weinreb, MD
Elliot B. Werner, MD
Jacob T. Wilensky, MD
Michael E. Yablonksi, MD, PhD*
Thom J. Zimmerman, MD, PhD*

*Deceased

AGS Meetings

Date and Location	Honoree	AGS Lecturer
June 11-13, 1987; Iowa City, Iowa	Charles D. Phelps, MD	Stephen M. Drance, MD
December 2-4, 1988; Miami Lakes, Florida	Paul A. Chandler, MD	Richard J. Simmons, MD
July 6-7, 1990; Mackinac Island, Michigan	David Worthen, MD	Richard F. Brubaker, MD
December 12-14, 1991; Coronado, California	H. Saul Sugar, MD	David G. Campbell, MD
July 7-9, 1993; Reykjavik, Iceland (Joint meeting with the European Glaucoma Society)	Hans Goldmann, MD	Franz Fankhauser, MD
February 2-4, 1995; Key West, Florida	Bernard Becker, MD	Allan E. Kolker, MD
July 30 – August 2, 1996; Vancouver, British Columbia, Canada (Joint meeting with the Japanese Glaucoma Society)	Stephen M. Drance, MD	Gordon R. Douglas, MD
December 4-6, 1997; Scottsdale, Arizona	Robert N. Shaffer, MD	H. Dunbar Hoskins Jr., MD
February 18-20, 1999; Amelia Island, Florida	W. Morton Grant, MD	Douglas R. Anderson, MD
March 2-4, 2000; San Antonio, Texas	Marvin L. Sears, MD	M. Bruce Shields, MD
March 1-4, 2001; Newport Beach, California	George L. Spaeth, MD	Roger Hitchings, MD
February 28 – March 3, 2002; San Juan, Puerto Rico	Allan E. Kolker, MD	Theodore Krupin, MD
March 6-9, 2003; San Francisco, California	Richard J. Simmons, MD	E. Michael Van Buskirk, MD
March 4-7, 2004; Sarasota, Florida	Douglas R. Anderson, MD	Chris A. Johnson, PhD
March 3-6, 2005; Snowbird, Utah	Richard F. Brubaker, MD	David L. Epstein, MD
March 2-5, 2006; Charleston, South Carolina	E. Michael Van Buskirk, MD	Murray A. Johnstone, MD
March 1-4, 2007; San Francisco, California	Steven M. Podos, MD	Paul L. Kaufman, MD
March 6-9, 2008; Washington, District of Columbia	M. Bruce Shields, MD	Robert Ritch, MD
March 5-8, 2009; San Diego, California	Paul L. Kaufman, MD	Robert N. Weinreb, MD
March 4-7, 2010; Naples, Florida	Robert L. Stamper, MD	Michael A. Kass, MD
March 3-6, 2011; Dana Point, California	Richard P. Wilson, MD	Harry A. Quigley, MD
March 1-4, 2012; New York, New York	Theodore Krupin, MD	Alfred Sommer, MD, MHS
February 28 – March 3, 2013; San Francisco, California	Robert Ritch, MD	Richard K. Parrish II, MD
February 27 – March 2, 2014; Washington, District of Columbia	Donald S. Minckler, MD	George Baerveldt, MD
February 26 – March 1, 2015; Coronado, California	David L. Epstein, MD	Paul P. Lee, MD, JD
March 3-6, 2016; Fort Lauderdale, Florida	Harry A. Quigley, MD	Anne L. Coleman, MD, PhD
March 2-5, 2017; Coronado, California	Richard P. Mills, MD, MPH	Wallace L. M. Alward, MD

Date and Location	Honoree	AGS Lecturer
March 1-4, 2018; New York, New York	A. Robert Bellows, MD B. Thomas Hutchinson, MD	Joel S. Schuman, MD
March 14-17, 2019; San Francisco, California	Michael A. Kass, MD	Eve J. Higginbotham, MD
February 27 – March 1, 2020; Washington, District of Columbia	Richard K. Parrish II, MD	Steven J. Gedde, MD
March 4-7, 2021; Virtual Meeting	Paul R. Lichter, MD	Janet B. Serle, MD
March 3-6, 2022; Nashville, TN	Wallace L. M. Alward, MD	M. Roy Wilson, MD, MS
March 2-5, 2023; Austin, TX	Paul F. Palmberg, MD, PhD	Pradeep Y. Ramulu, MD, PhD

AGS Lecturers and Award Recipients

AGS Clinician-Scientist Lecturers

The AGS Clinician-Scientist Lecture is given annually by an individual who exemplifies qualities of excellence in patient care and basic research. This individual is selected by a special committee of the AGS comprised of past, present, and future AGS Presidents and the AGS Program Committee Chair. The AGS Clinician-Scientist Lecturer is invited to present a special scientific lecture at the AGS Annual Meeting.

Year	Clinician-Scientist Lecturer	Lecture
2000	Robert N. Weinreb, MD	The Other Outflow Pathway
2001	Paul L. Kaufman, MD	Gene Therapy for Glaucoma: Anterior and Posterior Segment Targets and Constraints
2002	Harry A. Quigley, MD	Do We Really Understand Angle-Closure Glaucoma?
2003	Martin B. Wax, MD	Roles of the Immune System in Glaucoma
2004	Wallace L. M. Alward, MD	Computer Geeks in the Genome: Bioinformatics
2005	Douglas H. Johnson, MD	Glaucoma: Clues from Ultrastructure, Lessons from Epidemiology
2006	George A. Cioffi, MD	Quotes, Questions & Quandaries Regarding Optic Nerve Ischemia & Glaucoma
2007	Carl B. Camras, MD*	Serendipity Versus Directed Hypothesis Driven Research in Medical Discovery
2008	Anne L. Coleman, MD, PhD	A Public Health Perspective on Glaucoma
2009	Joseph Caprioli, MD	The Importance of Rates in Glaucoma
2010	David S. Greenfield, MD	Unlocking Mysteries in Measurements of the Retinal Nerve Fiber Layer
2011	Joel S. Schuman, MD	Advances in Optical Coherence Tomography (OCT)
2012	James D. Brandt, MD	Is It Real or Is It Artifact? What the Cornea Can Tell Us About Glaucoma
2013	Jeffrey M. Liebmann, MD	The Central 10 Degrees
2014	Janey L. Wiggs, MD, PhD	Glaucoma Genetics: Families and NEIGHBORS
2015	Claude F. Burgoyne, MD	Predicting Optic Nerve Head Susceptibility to Glaucoma
2016	John C. Morrison, MD	Understanding Mechanisms of Glaucomatous Optic Nerve
2017	R. Rand Allingham, MD*	Out of Africa: Human Migration, Glaucoma Genes, and Some Unusual Paths to a Cure
2018	Donald L. Budenz, MD, MPH	Glaucoma at the Center of the Earth
2019	Louis R. Pasquale, MD	Nitric Oxide: A Small Molecule with Large Impact in Glaucoma
2020	Sayoko E. Moroi, MD, PhD	Illuminating Our Blind Spots and Preventing Blindness
2021	David S. Friedman, MD, MPH, PhD	Angle Closure Insights
2022	Felipe A. Medeiros, MD, PhD	Shift Happens
2023	Joshua D. Stein, MD, MS	Leveraging the Power of Big Data to Capture Glaucoma Care Quality

*Deceased

AGS President's Award

The recipient of the AGS President's Award is chosen by the President and approved by a special committee of the AGS comprised of past, present, and future AGS Presidents and the AGS Program Committee Chair for "significant contributions to the glaucoma community through his or her scientific achievements, service to the Society, and/or service to the profession as a whole."

Year	President's Award Recipient	Year	President's Award Recipient	Year	President's Award Recipient
2003	Ronald L. Fellman, MD	2011	Richard P. Mills, MD, MPH* James F. Jorkasky	2020	AGS Member-Led Randomized Clinical Trials: ABC: Donald L. Budenz, MD, MPH AVB: Iqbal Ike K. Ahmed, MD AGIS: Douglas E. Gaasterland, MD CIGTS: Paul R. Lichter, MD CNTGS: Douglas R. Anderson, MD, and Stephen M. Drance, MD* FFSS: Richard K. Parrish II, MD GLT: Hugh Beckman, MD OHTS: Michael A. Kass, MD PTVT: Steven J. Gedde, MD TVT: Steven J. Gedde, MD, Richard K. Parrish II, MD, and Dale K. Heuer, MD
2004	Theodore Krupin, MD*	2012	Joanne Angle*	2021	Alfred Sommer, MD, MHS
2005	B. Thomas Hutchinson, MD	2013	Cynthia Mattox, MD	2022	Sue J. Vicchilli, COT, OCS, OCSR
2006	Max Forbes, MD	2014	U.S. Food and Drug Administration (Malvina B. Eydelman, MD, and Wiley A. Chambers, MD)	2023	Anne L. Coleman, MD, PhD
2007	Bernard Schwartz, MD, PhD*	2015	M. Roy Wilson, MD, MS		
2008	Glaucoma Foundation Glaucoma Research Foundation	2016	Alana L. Grajewski, MD Elizabeth A. Hodapp, MD		
2009	H. Dunbar Hoskins Jr., MD William L. Rich III, MD	2017	DC Office of the AAO (Cathy Cohen, Michael X. Repka, MD, Rebecca Hyder, and Cherie McNett) and ASCRS (Nancey McCann)		
2010	AGS Founding Members: Douglas R. Anderson, MD David G. Campbell, MD Max Forbes, MD John Hetherington Jr., MD* H. Dunbar Hoskins Jr., MD Allan E. Kolker, MD* William E. Layden, MD Charles D. Phelps, MD* Irvin P. Pollack, MD* Harry A. Quigley, MD M. Bruce Shields, MD Richard J. Simmons, MD George L. Spaeth, MD	2018	Gregory L. Skuta, MD		
		2019	Richard A. Lewis, MD		

AGS Humanitarian Award

The Humanitarian Award is given to an individual who has made extraordinary and innovative contributions to the field of glaucoma.

Year	Recipient	Year	Recipient	Year	Recipient
2012	Mildred M. G. Olivier, MD	2016	Alan S. Crandall, MD*	2020	Paul R. Cotran, MD
2013	Marc F. Lieberman, MD*	2017	Richard K. Lee, MD, PhD	2021	Scott D. Lawrence, MD
2014	Alan L. Robin, MD	2018	James D. Brandt, MD	2022	Oluwatosin U. Smith, MD
2015	Donald L. Budenz, MD, MPH	2019	Ramesh S. Ayyala, MD	2023	Alana L. Grajewski, MD

*Deceased

AGS International Scholar Award

The International Scholar Award honors a colleague for lifetime contributions to glaucoma research, education, patient care, and international collaboration.

Year	Recipient	Year	Recipient	Year	Recipient
2011	Yoshiaki Kitazawa, MD, PhD	2015	Anders H. Heijl, MD, PhD	2020	David F. Garway-Heath, MD
2012	Remo Susanna Jr., MD	2016	Peng T. Khaw, MD, PhD	2021	Tin Aung, MBBS, FRCS(Ed), FRCOphth, MMed, FAM, PhD
2013	Ivan Goldberg, MBBS, FRANZCO	2017	Makoto Araie, MD	2022	Yvonne M. Buys, MD
2014	Roger A. Hitchings, FRCS	2018	Anja E. Tuulonen, MD	2023	Jonathan G. Crowston, MD, PhD
		2019	Jost B. Jonas, MD		

AGS Innovator Award

The Innovator Award is given to an individual who has made extraordinary and innovative contributions to the field of glaucoma.

Year	Recipient	Year	Recipient	Year	Recipient
2011	James B. Wise, MD	2016	Carl B. Camras, MD*, and László Bitó, PhD	2021	Mark A. Latina, MD
2012	George Baerveldt, MD*	2017	Joel S. Schuman, MD	2022	Murray A. Johnstone, MD
2013	Robert N. Weinreb, MD	2018	David G. Campbell, MD	2023	Douglas E. Gaasterland, MD
2014	Reay H. Brown, MD	2019	Mary G. Lynch, MD		
2015	Anthony C. B. Molteno, FRANZCO, FRCS, MB	2020	Malik Y. Kahook, MD		

AGS Surgery Day Lecturer

The Surgery Day Lecture is delivered by an individual who has contributed to the excellence and advancement of glaucoma surgery.

Year	Recipient	Year	Recipient	Year	Recipient
2010	George L. Spaeth, MD	2015	Iqbal Ike K. Ahmed, MD	2020	Brian A. Francis, MD
2011	Douglas E. Gaasterland, MD	2016	Allen Dale Beck, MD	2021	Brian E. Flowers, MD
2012	Alan S. Crandall, MD	2017	Thomas W. Samuelson, MD	2022	Arsham Sheybani, MD
2013	Marlene R. Moster, MD	2018	Ronald L. Fellman, MD	2023	Jody R. Piltz-Seymour, MD
2014	Paul F. Palmberg, MD, PhD	2019	Leon W. Herndon Jr., MD		

AGS Outstanding Educator Award

The Outstanding Educator Award recognizes an individual who has consistently demonstrated extraordinary commitment to advancing glaucoma education to residents, fellows, and/or colleagues.

Year	Recipient	Year	Recipient	Year	Recipient
2016	Wallace L. M. Alward, MD	2019	Jody R. Piltz-Seymour, MD	2022	Paul A. Sidoti, MD
2017	George L. Spaeth, MD	2020	M. Bruce Shields, MD	2023	Eydie G. Miller Ellis, MD
2018	Paul F. Palmberg, MD, PhD	2021	Marlene R. Moster, MD		

*Deceased

Research Fellowship Awards and Programs

The AGS Research Fellowship supports developing new investigators in the field of glaucoma research. The program is administered by the AGS Research Committee.

The 1997-2022 recipients are listed below. The recipients of the 2023 grants will be announced during the 2023 Annual Business Meeting.

Recipients are selected each year, although applications for renewals will be considered. To be eligible, a candidate must have completed, within the past five years, at least one full year of fellowship training in glaucoma. Recipients do not necessarily need to have a faculty appointment, but they must be active or provisional Members of the AGS. For more information, interested individuals may contact the AGS Administrative Office in San Francisco or visit the AGS website, www.americanglaucomasociety.net.

The Society congratulates the past recipients of the AGS Research Fellowships in Glaucoma.

Recipients of the AGS Young Physician-Scientist Grants

1997	Deepak P. Edward, MD	2007	Dana M. Blumberg, MD John H. Fingert, MD, PhD Malik Y. Kahook, MD Rachel W. Kuchtey, MD, PhD Felipe A. Medeiros, MD, PhD Arthur J. Sit, MD	2014	Shandiz Tehrani, MD, PhD Derek S. Welsbie, MD, PhD Sung C. Park, MD
1998	Young H. Kwon, MD, PhD			2015	Alex A. Huang, MD, PhD O'Rese J. Knight, MD Daniel B. Moore, MD
1999	Darrell WuDunn, MD, PhD			2016	Ian F. Pitha, MD, PhD Osamah J. Saeedi, MD Paula Anne Newman-Casey, MD
2000	Stuart J. McKinnon, MD, PhD	2008	Arthur J. Sit, MD John H. Fingert, MD Henry Tseng, MD, PhD Pradeep Y. Ramulu, MD, PhD Thasarat S. Vajaranant, MD Rachel W. Kuchtey, MD, PhD	2017	David Fleischman, MD, MS Luis E. Vazquez, MD, PhD Milica Margeta, MD, PhD Jella A. An, BSC, FRCSC, MD
2001	Margaret P. Good, MD	2009	Michael V. Boland, MD, PhD Joshua D. Stein, MD, MS	2018	Grace M. Richter, MD, MPH Qi N. Cui, MD, PhD Brian Song, MD Nathaniel C. Sears, MD
2002	Edward M. Barnett, MD, PhD	2010	Brian Christopher Samuels, MD, PhD Vikas Gulati, MD Christopher C. Teng, MD Molly M. Walsh, MD, MPH	2019	Ken Y. Lin, MD, PhD Gavin W. Roddy, MD, PhD Erin A. Boese, MD
2003	Steven L. Mansberger, MD, MPH Christopher A. Girkin, MD Pratap Challa, MD	2011	Kathryn E. Bollinger, MD, PhD Nils A. Loewen, MD, PhD Kelly W. Muir, MD Kouros Nouri-Mahdavi, MD Yang Sun, MD, PhD	2020	Ahmara G. Ross, MD, PhD Benjamin Xu, MD, PhD Tave Van Zyl, MD
2004	Christopher A. Girkin, MD Steven L. Mansberger, MD, MPH Douglas J. Rhee, MD Richard K. Lee, MD, PhD Shan C. Lin, MD	2012	Yvonne Ou, MD Lucy Q. Shen, MD	2021	Thomas V. Johnson III, MD, PhD Preethi S. Ganapathy, MD, PhD
2005	Camille Hylton, MD Douglas J. Rhee, MD Shan C. Lin, MD Leslie S. Jones, MD Jeffrey A. Kammer, MD	2013	Scott D. Lawrence, MD James C. H. Tan, MD, FRCOphth, PhD Benjamin J. Frankfort, MD, PhD	2022	Jiun Lap Do, MD, PhD Wendy Wing-Heng Liu, MD, PhD Nazlee Zebardast, MD, MSC
2006	JoAnn A. Giaconi, MD Anjali M. Bhorade, MD, MPH Sameer Imtiaz Ahmad, MD Molly M. Walsh, MD, MPH				

Mid-Career Physician-Scientist Awards

These awards are designed to provide an additional source of research funding for investigators between 5 and 20 years out of fellowship. These grants can be competitively renewed for a second year if substantial progress has been made during the first year. These grants are meant to allow mid-career investigators to conduct initial new research or continue ongoing research.

As with the AGS Research Fellowship, the winners of the 2022 Mid-Career Physician-Scientist Awards will be announced at the 2022 Annual Business Meeting.

Recipients of the Mid-Career Physician-Scientist Award

2008	Donald L. Budenz, MD, MPH Douglas J. Rhee, MD Sanjay G. Asrani, MD	2011	Anjali Bhorade, MD Richard K. Lee, MD, PhD	2015	Joshua D. Stein, MD Kouros Nouri-Mahdavi, MD, MSC
2009	Edward M. Barnett, MD, PhD Cynthia L. Grosskreutz, MD, PhD Darrell WuDunn, MD, PhD	2012	John H. Fingert, MD John Danias, MD, PhD	2016	Ying Han, MD, PhD Henry Tseng, MD, PhD
2010	Claude F. Burgoyne, MD Felipe A. Medeiros, MD, PhD Anthony D. Realini, MD	2013	Teresa C. Chen, MD Thasarat S. Vajaranant, MD Rachel W. Kuchtey, MD, PhD	2017	Kathryn E. Bollinger, MD, PhD
		2014	Karen M. Joos, MD, PhD Shan C. Lin, MD	2020	Lucy Q. Shen, MD Shandiz Tehrani, MD, PhD

Thank you, Allergan and the AGS Foundation, for support of the 2023 AGS Research Fellowship grants in one or both categories.

Mentoring for Advancement of Physician-Scientists (MAPS) Program Awards

The MAPS Program is a multi-faceted mentoring program of the AGS and predominant in fulfilling the mission of the organization by supporting glaucoma specialists and scientists to further their careers in science and research of glaucoma. The funding of this award provides AGS with a vehicle to expand its reach to young physician-scientists and focus on providing tools and resources to further their careers as potential leaders in the specialty of glaucoma care.

Thank you, Allergan, for being a primary supporter of the AGS MAPS Program.

MAPS Award Recipients

2008	Constance O. Okeke, MD, MSCE Pradeep Y. Ramulu, MD, PhD Zaher H. Sbeity, MD, FEBO Misha F. Syed, MD Thasarat S. Vajaranant, MD Husam Ansari, MD, PhD Vandana K. Badlani, MD Annette L. Giangiacomo, MD Lesya M. Shuba, MD, PhD Arthur J. Sit, MS, MD Joshua D. Stein, MD, MS	2013	Ta C. Chang, MD Jullia A. Rosdahl, MD Alex A. Huang, MD, PhD Ian P. Conner, MD, PhD Paula A. Newman-Casey, MD Marcos Reyes, MD Brian J. Song, MD Osamah J. Saeedi, MD Shuchi B. Patel, MD	2018	Eva DeVience, MD Jiun L. Do, MD, PhD Joshua Ehrlich, MD Mona A. Kaleem, MD Ken Lin, MD, PhD Gavin Roddy, MD, PhD Mohamed S. Sayed, MD Qianqian Wang, MD, FRCSC Benjamin Xu, MD, PhD Jithin Yohannan, MD, MPH Nazlee Zebardast, MD, MSC
2009	Kelly W. Muir, MD Scott J. Fudenberg, MD Nathan M. Radcliffe, MD Lucy Q. Shen, MD Misha F. Syed, MD Molly M. Walsh, MD Michael V. Boland, MD, PhD Nils A. Loewen, MD, PhD	2014	Deepta A. Gbate, MD Ying Han, MD Alex A. Huang, MD, PhD Mona A. Kaleem, MD O'Rese J. Knight, MD Ian F. Pitha, MD, PhD Arsham Sheybani, MD Luis E. Vazquez, MD Joanne C. H. Wen, MD Amy D. Zhang, MD	2019	Thomas V. Johnson III, MD, PhD Aakriti Garg Shukla, MD Joel R. Palko, MD Atalie C. Thompson, MD, MPH Jiun L. Do, MD, PhD Swarup S. Swaminathan, MD Sylvia L. Groth, MD Ze Zhang, MD Catherine Q. Sun, MD
2010	Kathryn E. Bollinger, MD, PhD Robert T. Chang, MD JoAnn A. Giaconi, MD Vikas Gulati, MD Kouros Nouri-Mahdavi, MD, MSc Mina B. Pantcheva, MD Yang Sun, MD, PhD	2015	Elena Bitrian, MD Lauren S. Blieden, MD Angela Elam, MD David Fleischman, MD, MS Shane J. Havens, MD Yao Liu, MD Yvonne Ou, MD Grace M. Richter, MD, MPH Jeffrey R. Soohoo, MD Luis E. Vazquez, MD Joanne C. H. Wen, MD	2020	Katy C. Liu, MD, PhD Elyse J. McGlumphy, MD Michael M. Lin, MD Natasha N. Kolomeyer, MD Huda Sheheitli, MD Ann Shue, MD Adam L. Rothman, MD Brandon J. Wong, MD Ang Li, MD
2011	Derek S. Welsbie, MD, PhD Ta C. Chang, MD Albert S. Khouri, MD Mark A. Slabaugh, MD Ahmad A. Aref, MD Anand V. Mantravadi, MD Daniel J. Good, MD Anna-Maria Demetriades, MD Benjamin J. Frankfort, MD, PhD	2016	Jella A. An, MD Amanda K. Bicket, MD Michael D. Greenwood, MD Ambika S. Hoguet, MD Robert M. Kinast, MD Arindel S. Maharaj, MD, PhD Grace M. Richter, MD, MPH Manjool M. Shah, MD Ramya N. Swamy, MD, MPH	2021	Rachel H. Lee, MD, MPH Elizabeth A. Cretara, MD Wendy W. Liu, MD, PhD Victoria L. Tseng, MD, PhD Daniel M. Vu, MD James C. Liu, MD Brian C. Stagg, MD Andrew M. Williams, MD
2012	Osamah J. Saeedi, MD Lauren S. Blieden, MD Yang Sun, MD, PhD Stella N. Arthur, MD James C. H. Tan, MD, FRCOphth, PhD Benjamin J. Frankfort, MD, PhD Joseph F. Panarelli, MD Tomas M. Grippo, MD Sung Chul Park, MD	2017	Sahar Bedrood, MD, PhD Amanda K. Bicket, MD Andrew S. Camp, MD Divakar Gupta, MD Shivani S. Kamat, MD Daniel Lee, MD Yao Liu, MD Brian D. McMillan, MD Siddarth N. Rathi, MD, MBA Krishna P. Shanmugam, MD Sarah H. Van Tassel, MD	2022	Andrew E. Pouw, MD Inas F. Abookakar, MD Anh H. Pham, MD, PhD Aaron D. Webel, MD Qing Wang, MD, PhD Jasdeep Sabharwal, MD, PhD

Recipients of the Bernard Schwartz, MD, Memorial Award

The Bernard Schwartz, MD, Memorial Award was established in 2009 by a generous donation from Dr. Ralph Levene and Elsevier Publications.

The award is given annually to the top scored paper or poster abstract being presented at the AGS Annual Meeting by a resident.

2009	Christopher Rodarte, MD	2015	Mary Qiu, MD	2021	Rithambara Ramachandran, MD
2010	Denise S. Kim, MD	2016	Nazlee Zebardast, MD	2022	Taariq Mohammed, MD
2011	Jennifer S. Huang, MD	2017	Aakriti Garg, MD	2023	Tejus Pradeep, MD & Sharon Sabapathypillai, MD, MSc
2012	Jennifer Hu, MD	2018	Jonathan Chou, MD		
2013	Tracy M. Wright, MD	2019	Emily Schehlein, MD		
2014	Richard Kaplan, BA	2020	Michael S. Quist, MD		

Health Care Policy Leadership Development Program

During medical school, ophthalmology residency, and glaucoma fellowship training, ophthalmologists get minimal formal training about health policy and health services research topics. It is critically important to the AGS that there are members who understand the fundamental organization and structure of the U.S. health care system and have knowledge about how decisions are made at the Centers for Medicare & Medicaid Services and the Food and Drug Administration and about topics such as assessing quality of care, access to care, and cost of and reimbursement for health care services. It is essential that there are members of the AGS who understand how to engage health policymakers and politicians in a constructive manner that resonates with them, so they are willing to advocate on our behalf when it comes to important decisions that help us best serve our patients. Presently, there is only a small group of leaders in our field who are very knowledgeable about these topics. The goal of this initiative is to expand the number of AGS members who are well versed in these important topics.

2018	Regina M. Smolyak, MD Rochester, NY	2020	Ayan Chatterjee, MD King of Prussia, PA	2021	Natasha Nayak Kolomeyer, MD Philadelphia, PA
	Emily Patterson Jones, MD Portland, OR		Brian C. Stagg, MD, MS Salt Lake City, UT	2022	Adam L. Rothman, MD Roman I. Krivochenitser, MD
2019	Christine LeeAnn Larsen, MD Bloomington, MN				
	Angela V. Turalba, MD, MMS Boston, MA				



AGS **2023**

ANNUAL MEETING

★ AUSTIN, TEXAS

MARCH 2-5

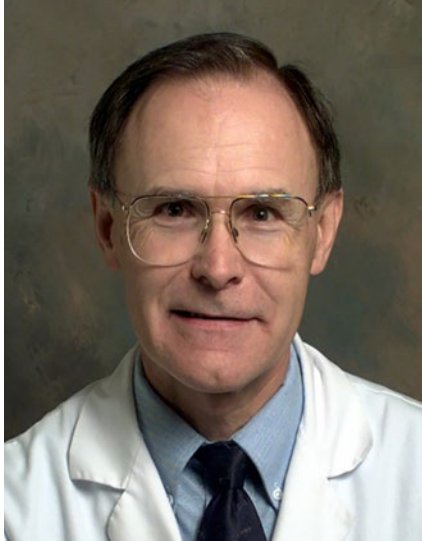
HYBRID: IN-PERSON & VIRTUAL

LECTURERS AND HONOREES



AMERICAN
GLAUCOMA
SOCIETY

Honorees and Lecturers



Paul F. Palmberg, MD, PhD

Guest of Honor

Paul Palmberg received MD and PhD (Biochemistry) degrees from Northwestern University, followed by Residency and Chief Residency in Ophthalmology, Clinical and Research Glaucoma Fellowships at Washington University in St. Louis. He is Professor of Ophthalmology at the Bascom Palmer Eye Institute, University of Miami Miller School of Medicine.

He suggested in 1988 the use of setting a “target pressure” as a way of summarizing one’s judgment for choosing an initial treatment goal (based upon available literature) and a means of alerting clinicians when above target to intensify monitoring or treatment (AAO PPP for POAG). He participated in defining the relationship between IOP and visual field progression, receiving the World Glaucoma Association Award (2000) for insisting as a member of the DSMB that the data of the Advanced Glaucoma Intervention Study be used to answer the question “What is the best that we can do?”, finding that sufficient consistent lowering of IOP halted glaucoma damage in most cases, achieving no net visual field loss for 8 years (AJO 2000;130(4):429-440). That confirmed his report (EER 1998) of finding no net visual field loss in a large group of patients with advanced glaucoma followed for 5 years, achieved with the controversial use of 5-FU or MMC in primary trabeculectomy (mean IOP of 11 mm Hg). To mitigate the risk of using MMC in primary cases he developed techniques to avoid or treat hypotony maculopathy (AJO 1997;104:207-214), painful, failing or leaking blebs. On the DSMB of the Comparison of Initial Glaucoma Treatments Study (CIGTS) he suggested the further analysis which revealed that achieving low normal IOPs resulted in an average 10% recovery of visual field, confirming work by Ishida and Palmberg in MMC trabeculectomy that showed an average 15% recovery of visual field loss at low peak (<14 mm Hg) pressures (ARVO 2003). He is serving as the Medical Monitor for the FDA MicroShunt trial and is Vice-Chair of the University of Miami Human Subjects Committee, in addition to clinical responsibilities with Residents.

His natural history study of the early phases of diabetic retinopathy (AJO 1980), using stereophotography, was a basis for the Primary Prevention portion of the Diabetes Control and Complications Trial (NIH), and he served on its monitoring committee. He introduced HEPES buffer and the color indicator used in corneal preservation media, studied trabecular cell biology, and participated in medical therapy studies.

Honors: Shaffer Glaucoma Lecture (2005), AAO Lifetime Achievement Award (2012), AGS Surgery Day Lecture (2014), Pan-American Association of Ophthalmology Teaching Award (2015), AGS Educator Award (2018), twice Professor of the Year at Bascom Palmer Eye Institute (1999, 2013), Glaucoma Foundation Excellence and Innovation Award (2018), Zimmerman Lecture (ICGS, 2022), AGS Honoree (2023)

Dr. Palmberg authored or coauthored 103 journal articles and 12 book chapters, lectured in 64 countries, trained 107 clinical fellows and 107 foreign observer fellows. He and wife Carol and 3 daughters have hosted many of the foreign fellows in their home. Dr. Palmberg is a Presbyterian Elder, former runner (5 marathons-Boston 1979) and cyclist.

AGS Lecturer

Dr. Pradeep Ramulu was born in Chicago, Illinois, graduated with Honors from Stanford University, and then joined the MD/PhD program at Johns Hopkins University, completing his PhD work on retinal biology with Jeremy Nathans. He subsequently completed his Ophthalmology residency at the Johns Hopkins Wilmer Eye Institute and a Glaucoma Fellowship at Bascom Palmer Eye Institute.

After his fellowship, he returned to Wilmer's Glaucoma Division, where he began a program to study the functional consequences of visual impairment. Using a variety of tools including patient reported outcomes, observation of task performance, and real-world behavioral monitoring, Dr. Ramulu has helped define when, how, and why visual impairment results in disability. His current work is focused on the possible protective role of physical activity against eye disease, developing methods to assess/prevent falls in older adults, particularly those with visual impairment, and the use of ocular imaging to identify persons at risk for cognitive impairment.

Dr. Ramulu's work has resulted in over 200 peer-reviewed publications, 10 book chapters, and 2 books. Because of his expertise, he has helped various agencies including the Federal Bureau of Investigation to set vision standards for work. He also holds or has held leadership positions in various national and international ophthalmic societies, including Program Chair for the American Glaucoma Society, Director of the Education Committee for the World Glaucoma Association, Chair of the AAO Public Health Committee, and Program Chair for the Glaucoma Research Society. He has mentored numerous medical students, MPH students, residents and fellows clinically and in research projects. He twice won the resident teaching award and, in a model that has now become the standard for Wilmer, reorganized resident teaching by placing lectures on-line and using in-class time for interactive sessions using game-based learning and small-group interactive case review. On top of caring for his patients' needs, he now serves as Director of the Wilmer Glaucoma service, consisting of 10 faculty and over 20 research, clinical, and administrative staff members. Dr. Ramulu has received continuous NIH funding since 2007 and has received the Secretariat, Achievement, and Senior Awards from the American Academy of Ophthalmology and the Pisart Award for Vision Science. He was also named to Newsweek's list of "America's Best Eye Doctors" in 2021 and 2022.

Dr. Ramulu credits any success to his extraordinarily mentors and colleagues at Johns Hopkins, and also to his ever-supportive parents, Yammanuru and Aruna Ramulu, his 20 years of loving marriage to his wife and spiritual beacon, Vandana, and his two talented and inspiring children – his son Shreyas and daughter Priyanka.



Pradeep Y. Ramulu, MD, PhD



Anne Louise Coleman, MD, PhD

President's Award

Dr. Anne Louise Coleman is the Chair and Executive Medical Director of the Department of Ophthalmology in the David Geffen School of Medicine (DGSOM), and Director of the UCLA Stein Eye Institute and Affiliation Chair of the Doheny Eye Institute, and Professor of Epidemiology in the UCLA Jonathan and Karin Fielding School of Public Health.

Dr. Coleman received her medical degree from the Medical College of Virginia, completed her residency training at the University of Illinois in Chicago and finished her fellowship training in glaucoma at the Wilmer Eye Institute, Johns Hopkins University.

She received her doctorate in Epidemiology from UCLA and is a graduate of the Anderson School of Management Executive Program in Management. Dr. Coleman's research focuses on the diagnosis, treatment, risk factors, gene-environment interactions, and societal impact of glaucoma, cataracts, age-related macular degeneration, and amblyopia. She has also examined the lifestyle limitations imposed on patients with these chronic eye diseases. She is a past member of the Scientific Advisory Panel for Research to Prevent Blindness and is currently an Associate Editor of *Glaucoma* for the *American Journal of Ophthalmology*. She has more than 240 peer-reviewed publications and has helped lead monumental studies in ophthalmology such as the Ocular Hypertension Treatment Study. Dr. Coleman is also a respected and innovative surgeon, pioneering the use of the Ahmed glaucoma valve—the world's leading glaucoma drainage device—and publishing the first peer-reviewed article describing its safety and efficacy. For over 20 years, Dr. Coleman has been the Director of the UCLA Mobile Eye Clinic and the Stein Eye Institute's Center for Community Outreach and Policy providing vision services to the medically underserved populations of Los Angeles County.

Dr. Coleman has been actively involved in national outreach programs in ophthalmology. She was elected to the National Academy of Science, Engineering, and Medicine in 2016, was a member of the National Academy of Medicine (formerly Institute of Medicine) Committee on Public Health Approaches to Reduce Vision and Promote Eye Health, and Chair of the National Eye Institute National Eye Health Educational Program. She is former president of American Academy of Ophthalmology (AAO), American Ophthalmological Society, Women in Ophthalmology, and Los Angeles Society of Ophthalmology. She is recipient of the AAO Life Achievement Award and Secretariat Award and gave the prestigious LXXII Edward Jackson Memorial Lecture at the AAO Annual Meeting in 2015. She is the only AAO president to have also given the Jackson Memorial Lecture and be honored as a member of the National Academy of Medicine. She is a former member of the St. John of Jerusalem Eye Hospital Group Board of Trustees, the Helen Keller International Board of Trustees, and the U.S. Food and Drug Administration Ophthalmic Devices Panel.

Innovator Award

Dr. Douglas E. Gaasterland, born in late 1937 in Washington DC, lived most of his early years in the Maryland DC suburbs. He moved to Baltimore to enroll in Johns Hopkins University Engineering Science undergraduate training with minors in Mathematics, Physics, and Aeronautics.

He is a 1965 graduate of the Johns Hopkins University School of Medicine. After an internal medicine internship year at the Baltimore City Hospitals/Hopkins, he completed, in 1970, 4 years of residency training with Marvin Sears at Yale-New Haven Hospital. After residency he moved to the National Eye Institute for a fellowship in Glaucoma and Clinical Research with Carl Kupfer. After 2-years in the United States Army, he returned to the National Eye Institute (NEI) as a member of the senior clinical staff; he was in the Public Health Service and was Director of the Glaucoma and Laser Clinical Research Unit and Assistant Clinical Director. In 1984, Dr. Gaasterland joined the faculty of the Center for Sight at Georgetown University as Professor of Ophthalmology and Director of the Glaucoma and Laser Service. After that, he was a co-founder in 1992 of the private multispecialty practice group Eye Doctors of Washington, PC. In 2012, he retired from hands-on patient care. He still serves as Senior Advisor for the Emmes Corporation, Rockville, Maryland.

Dr. Gaasterland has been active in development of laser systems for eye treatments for nearly 50 years. He has had two patents for ophthalmic laser treatment devices, including the G-Probe of IRIDEX, Corporation. Working with associates, he is the author or coauthor of more than 125 scientific papers, many concerning aspects of aqueous dynamics, glaucoma medications, eye surgery, and laser glaucoma treatment, and a number of book chapters. He is experienced in conduct of clinical trials and has served on national and international glaucoma committees, including, behind the scenes, membership in monitoring committees for multi-center clinical trials in glaucoma. He was Co-Developer and Co-Director, with Fred Ederer MS, FACE, of the 14-year Advanced Glaucoma Intervention Study (AGIS) which assessed surgical treatments for glaucoma; he was Principal Investigator for the Washington DC, Clinical Center consortium for the 15-year Ocular Hypertension Treatment Study (OHTS). His recent interests have turned to the role of genomics in understanding risk and potential for the genetic management, or cure, of glaucoma.

Dr. Gaasterland now lives in retirement from hands-on patient care, on the Virginia shore of the lower Potomac River near the Chesapeake Bay, where his family visits. Aging infirmities inhibit mobility. His wife of many years died in 2006 of Kreutzfeld-Jakob Disease, a prion-based affliction.



Douglas E. Gaasterland, MD



Dr. Jody Piltz-Seymour, MD

Surgery Day Lecturer

Dr. Jody Piltz-Seymour has provided subspecialty glaucoma care throughout the Philadelphia region for more than 30 years. She is the director of the Glaucoma Care Center at Valley Eye Professionals where she enjoys practicing with her expert partners. Dr. Piltz-Seymour is on the faculty at the Wills Eye Hospital and is an Adjunct Professor of Ophthalmology at the Perelman School of Medicine of the University of Pennsylvania.

After receiving her medical degree and ophthalmology training from the Albert Einstein College of Medicine in New York, she performed her Glaucoma Fellowship at the University of British Columbia in Vancouver under the artful mentorship of Drs. Stephen Drance, Gordon Douglas, and Fredrick Mikelberg. Dr. Piltz-Seymour served as the Director of Glaucoma Services at the Scheie Eye Institute/University of Pennsylvania for 15 years, establishing a glaucoma fellowship program in 1992 and serving as its director for 14 years.

Traveling with Orbis, Unite for Sight, and the Wills Eye Hospital initiative in Rwanda, Dr. Piltz-Seymour has worked with local physicians to advance glaucoma care in the developing world, including Cameroon, Ethiopia, Ghana, Rwanda, and Vietnam. Collaboratively, she helped develop a comprehensive didactic glaucoma curriculum on the Orbis portal, CyberSight, which can be live streamed internationally and viewed online. Through the CyberSight portal, Dr. Piltz-Seymour lectures virtually, reaching physicians around the globe. In 2016 she was honored with the Humanitarian of the Year award from the Pennsylvania Academy of Ophthalmology.

Dr. Piltz-Seymour has been a clinical researcher throughout her career. She served as principal investigator for the Ocular Hypertension Treatment Study, the Collaborative Initial Glaucoma Treatment Study, and the Low-Tension Glaucoma Study. She is currently facilitating a research team at the University of Pennsylvania involved in the study of volatile organic compounds in the identification of ovarian and pancreatic cancer.

Dr. Piltz-Seymour has leadership roles in the major US and international societies, chairing and serving on program committees for AGS, ASCRS, WGC and AAO. Along with Dale Heuer, she has moderated the spirited Super Bowl of Grand Rounds at AGS for more than a decade. She has received the 2019 American Glaucoma Society Educator of the Year Award, as well as an Achievement Award, Senior Achievement Award, and Lifetime Achievement Award from the American Academy of Ophthalmology. She has been named “Top Doctor” by Philadelphia Magazine/Castle-Connolly.

Dr. Piltz-Seymour is honored to deliver the Surgery Day Lecture at the American Glaucoma Society 2023.

International Scholar Award

Jonathan Crowston is a clinician-scientist and Professor of Ophthalmology at the University of Sydney and Glaucoma Consultant at the Royal Prince Alfred Hospital. He completed his ophthalmology training at Moorfields Eye Hospital in London, a PhD at UCL and postdoctoral work at UC San Diego. In 2006 he moved to Australia and served as Head of Ophthalmology at the University of Melbourne until 2018 and subsequently head of the newly formed Centre for Vision Research at Duke-NUS. At the end of 2022. He has now returned to Australia and will help build the new Ophthalmology Flagship at the university of Sydney. His research focuses on the optic nerve diseases known as glaucoma and discovering how older age renders the optic nerve vulnerable to degenerative diseases.



Jonathan G. Crowston, MD, PhD



Eydie G. Miller-Ellis, MD

Outstanding Educator Award

Eydie Miller-Ellis, MD, is Professor of Clinical Ophthalmology and Director of the Glaucoma Service at the Scheie Eye Institute/University of Pennsylvania. She received her undergraduate degree from Duke University and her medical degree from the University of Pittsburgh. After completing an ophthalmology residency at the University of North Carolina, Chapel Hill she pursued a postdoctoral fellowship in glaucoma at Yale University. She then joined the faculty at the Yale School of Medicine where she remained for nine years. Dr. Miller-Ellis later moved to Richmond, VA where she was on the faculty at Virginia Commonwealth University/Medical College of Virginia for two years, then relocated to Philadelphia in 2001 to join the faculty of the Perelman School of Medicine at the University of Pennsylvania.

Dr. Miller-Ellis has lectured nationally and internationally on glaucoma diagnosis and management, and on training the eye care team. Her research interests include risk factors for the development and progression of glaucoma, pharmacological and surgical treatment of glaucoma, and diagnostic techniques. She is very involved in resident education and is a three-time recipient of the Surgical Teaching Award at the Scheie Eye Institute. She has also received the Suzanne Veronneau Troutman Mentorship Award from Women in Ophthalmology, the Distinguished Alumna Award from the Department of Ophthalmology at the Yale School of Medicine and the University of North Carolina, Chapel Hill. She received the American Academy of Ophthalmology's Achievement Award in 2008 and the Senior Achievement Award in 2015. In 2014, Dr. Miller-Ellis was elected to the Academy of Master Clinicians and in 2019 received the FOCUS Award for the Advancement of Women in Medicine, both at the University of Pennsylvania. She has also been recognized by Best Doctors in America and named a Top Doctor in Philadelphia Magazine.

She is Co-Director of the Rabb-Venable Excellence in Ophthalmology Program for the National Medical Association, Ophthalmology Section. This program is geared toward increasing the number of underrepresented minorities in ophthalmology residencies and academic ophthalmology and is supported by a grant from the National Eye Institute.

Dr. Miller-Ellis is currently an investigator in the Primary Open-Angle African Ancestry Glaucoma Genetics Study, the goal of which is to identify genetic markers for glaucoma in persons of African descent. This study is supported by the National Institutes of Health/National Eye Institute.

Dr. Miller-Ellis is an active member of the American Academy of Ophthalmology, American Glaucoma Society, Association for Research in Vision and Ophthalmology, National Medical Association, Greater Philadelphia Ophthalmic Society and Women in Ophthalmology.

Dr. Miller-Ellis is a past board member of the American Glaucoma Society and Women in Ophthalmology, and former Councilor to the American Academy of Ophthalmology representing the National Medical Association, Ophthalmology Section. She has spoken several times at the AGS annual meeting, has served as co-chair for Glaucoma Subspecialty Day (2018–2020) and on the AGS Nominating Committee (2018–2021, Committee Chair 2020–2021). She is a Past President of the International Joint Commission on Allied Health Personnel in Ophthalmology (IJCAHPO).

Humanitarian Award

Alana L. Grajewski, MD, is professor of clinical ophthalmology at the University of Miami Miller School of Medicine and the Kolokotronis Endowed Chair in Ophthalmology. She is the founder and director of The Samuel & Ethel Balkan International Pediatric Glaucoma Center at Bascom Palmer Eye Institute, the first integrated care model for the treatment of children with glaucoma. Throughout her career, Dr. Grajewski has been a leader in the care of adults with glaucoma, while pioneering innovations in the treatment of childhood glaucoma.

Dr. Grajewski received her undergraduate education at Stanford University, where she graduated magna cum laude, and attended the Chicago Medical School, graduating summa cum laude. She completed her ophthalmology training at Wills Eye Hospital, followed by a fellowship in glaucoma at Bascom Palmer Eye Institute.

A recipient of the Honor and Senior Honor Awards from the American Academy of Ophthalmology, Dr. Grajewski was listed in 2021 as one of the top 100 physicians in the world in ophthalmology. She also received the American Glaucoma Society (AGS) President's Award in 2016.

Dr. Grajewski's research and dedication to the field of glaucoma have led to first-ever advancements, including the first internal research consortium on childhood glaucoma, the first unified international diagnostic criteria and classification system of childhood glaucoma, the first international program for vision screening of infants and children tied to national vaccination programs in the Caribbean, and the first Ocular Genetics Clinic at Bascom Palmer Eye Institute (*iGenetics*TM).

Dr. Grajewski's innovations in the treatment of childhood glaucoma, along with the creation of the novel training program Global Eye SITETM for physicians from all over the world, have resulted in saving the vision of thousands of children worldwide.



Alana L. Grajewski, MD



Joshua D. Stein, MD, MS

Clinician-Scientist Lecturer

Joshua D. Stein, MD, MS is the Frederick G. L. Huetwell Professor at the University of Michigan Department of Ophthalmology and Visual Sciences. He received his medical degree from Jefferson Medical College, attended New York University / Manhattan Eye, Ear, and Throat Hospital for his ophthalmology residency training, and went to Duke University for a 2 year clinical and research glaucoma fellowship. He also has a master's degree in Evaluative Clinical Sciences from Dartmouth University and completed a health policy fellowship from the University of Michigan Center for Healthcare Research and Transformation. He is a clinician-scientist who has received extramural grant support from various sources including the National Eye Institute, Research to Prevent Blindness, the American Glaucoma Society, and the Glaucoma Research Foundation. Dr. Stein is a health services researcher who has more than 150 peer-reviewed publications on topics such as utilization of eye care services, disparities and inequities in eye care, cost-effectiveness of different ocular interventions, and predictive modelling for glaucoma and other eye diseases. His research leverages large datasets including data from the Center's for Medicare & Medicaid Services, commercial health insurance data, and electronic health record data. He has served on the American Glaucoma Society Board of Directors in various capacities over the years, including as Chair of the AGS Patient Care Committee and spearheaded the creation of the AGS CARES charitable program which offers incisional glaucoma surgery, free of charge, to uninsured and underinsured patients. Dr. Stein has received an Achievement Award and Secretariat Award from the American Academy of Ophthalmology for his assistance on scope of practice and other policy-related matters. He's also received the Pisart Award from the Lighthouse Guild and the prestigious David L. Epstein Award from the ARVO Foundation for Eye Research to highlight his efforts to mentor future clinician scientists. Dr. Stein serves on the editorial board of JAMA Ophthalmology and has served as a reviewer on multiple NIH study sections. He is president elect of the Chandler Grant Glaucoma Society and a standing committee member for the National Quality Forum. He spearheads the Sight Outcomes Research Collaborative (SOURCE), a consortium of more than 2 dozen health systems across the country who are sharing de-identified electronic health record and ocular diagnostic test data on eye care recipients from their institutions. His team cleans, aggregates, harmonizes, and links the clinical and diagnostic test data to social determinant of health data and other datasets to permit faculty and trainees from the participating centers to use SOURCE data for research projects or quality improvement initiatives. Over the years, he has trained numerous clinical and research glaucoma fellows, including several who are now successful NIH-funded independent investigators. He lives in Ann Arbor with his wife Cris and their two Labrador retrievers.



AGS **2023**

ANNUAL MEETING

★ AUSTIN, TEXAS

MARCH 2-5

HYBRID: IN-PERSON & VIRTUAL


PROGRAM SCHEDULE



AMERICAN
GLAUCOMA
SOCIETY

Program Schedule




WEDNESDAY, MARCH 1



TIME	EVENT / TITLE	LOCATION / SPEAKER
12:00 PM – 8:00 PM	Exhibitor Installation	Moontower Hall
2:00 PM – 8:00 PM	Registration & Exhibitor Check-In	Waterloo Foyer
5:30 PM – 7:00 PM	Physician Wellness Workshop 	Waterloo Ballroom
	Moderators: Jullia Rosdahl, MD, PhD & Amy Duoxi Zhang, MD	
5:30 PM – 5:35 PM	Introduction & Overview of Workshop	Jullia Rosdahl, MD, PhD
5:35 PM – 5:43 PM	First Things, First: Ergonomics	Amy Duoxi Zhang, MD
5:43 PM – 5:51 PM	From Surviving to Thriving: EMR and Pearls for Getting Through the Day	Michael V. Boland, MD, PhD
5:51 PM – 5:59 PM	From Surviving to Thriving: Email and Pearls for Getting Through the Evening	Atalie C. Thompson, MD MPH
5:59 PM – 6:05 PM	Q&A Discussion	
6:05 PM – 6:11 PM	Coping in Clinic: Running Behind, Again	Misha F. Syed, MD, MEHP
6:11 PM – 6:13 PM	Response	Karen Kingsolver, PhD
6:13 PM – 6:19 PM	Coping With Admin: Resources, What Resources?	Tania Lamba, MD
6:19 PM – 6:21 PM	Response	Karen Kingsolver, PhD
6:21 PM – 6:27 PM	Coping in the OR: Who's in Charge Here?	David Fleischman, MD, MS
6:27 PM – 6:29 PM	Response	Karen Kingsolver, PhD
6:29 PM – 6:40 PM	Panel Discussion on 'Coping' Scenarios With Wellness Coach	Karen Kingsolver, PhD (Physician Wellness Coach)
6:40 PM – 7:00 PM	Evidence-Based Practical Strategies for Enhancing Resilience	Karen Kingsolver, PhD (Physician Wellness Coach)

THURSDAY, MARCH 2

7:00 AM – 5:00 PM	Registration & Exhibitor Check-In	Waterloo Foyer
7:00 AM – 9:00 AM	Breakfast – Exhibit Hall	Moontower Hall
7:00 AM – 3:00 PM	Exhibit Hall Viewing	Moontower Hall
7:30 AM – 8:30 AM	Top Posters Presentation Session 1	Moontower Hall
8:30 AM – 10:30 AM	Spouse/Guest Hospitality Room	4th Floor Lounge
9:00 AM – 9:01 AM	Welcome, Introduction & Announcements	Waterloo Ballroom
	AGS President: Christopher A. Girkin, MD, MSPH Program Chairs: Michele C. Lim, MD & Kouros Nouri-Mahdavi, MD, MSC	
9:01 AM – 9:02 AM	Announcements	Waterloo Ballroom
	Surgery Day Chairs: Joanne C. H. Wen, MD & Sonya B. Shah, MD	




TIME	EVENT / TITLE		LOCATION / SPEAKER
9:02 AM – 9:52 AM	Surgery Day Section 1: Primary Surgical Choices for Secondary Glaucomas: What Does the Literature Tell Us? <small>CME</small>		Waterloo Ballroom
	Moderators: Joanne C. H. Wen, MD & Aiyin Chen, MD		
9:02 AM – 9:09 AM	Managing IOP Inflation After Traumatic Angle Recession		Daniel Benjamin Moore, MD
9:09 AM – 9:16 AM	Pump up Those Surgical Muscles for Steroid-Induced Glaucoma		Douglas J. Rhee, MD
9:16 AM – 9:23 AM	Hot Surgical Tips for Hot Uveitic Eyes		Keith Barton, MD, FRCP, FRCS
9:23 AM – 9:30 AM	Clearly the Best Approaches Post PKP/DSEK		JoAnn A. Giaconi, MD
9:30 AM – 9:38 AM	Buckle up to Bring Down IOP Post Anti-VEGF Injections and Retinal Surgery		Pratap Challa, MD
9:38 AM – 9:52 AM	Discussion		
9:52 AM – 9:54 AM	AGS Foundation Campaign Introduction		Waterloo Ballroom
	Ken Boyden, EDD, JD		
9:54 AM – 9:59 AM	AGS Cares Program Update		Waterloo Ballroom
	Adam L. Rothman, MD		
9:59 AM – 10:59 AM	Surgery Day Section 2: Paper Presentations <small>CME</small>		Waterloo Ballroom
	Moderators: Peter T. Chang, MD & Peter A. Netland, MD, PhD		
9:59 AM – 10:06 AM	Prospective Study of Standalone Multiple Trabecular Micro-Bypass Stents for Uncontrolled Glaucoma		Iqbal Ike K. Ahmed, MD
10:06 AM – 10:11 AM	Discussion/Practical Applications		
10:11 AM – 10:18 AM	Perioperative Anticoagulation Management Patterns Related to Minimally Invasive Glaucoma Surgery (MIGS)		Tejus Pradeep, MD
10:18 AM – 10:23 AM	Discussion/Practical Applications		
10:23 AM – 10:30 AM	First-in-Human Study of Nonincisional, Femtosecond Laser Image-Guided High-Precision Trabeculotomy (FLIGHT) in Open-Angle Glaucoma and Ocular Hypertensive Patients: Twelve-Month Outcomes		Thomas W. Samuelson, MD
10:30 AM – 10:35 AM	Discussion/Practical Applications		
10:35 AM – 10:42 AM	Treatment Patterns and Predictors of Glaucoma Surgery in Primary Angle Closure Glaucoma: An IRIS® Registry Analysis		Carina Sanvicente MD
10:42 AM – 10:47 AM	Discussion/Practical Applications		
10:47 AM – 10:54 AM	Two-Year Safety and Efficacy Results of a Supraciliary Drainage Device in Patients With Open-Angle Glaucoma – A Meta-analysis From the STAR-I, STAR-II, and STAR-III Studies		Inder Paul Singh, MA, MD
10:54 AM – 10:59 AM	Discussion/Practical Applications		
10:59 AM – 11:29 AM	Break – Exhibit Hall		Moontower Hall




TIME	EVENT / TITLE	LOCATION / SPEAKER
11:29 AM – 11:57 AM	Surgical Video Competition Finalists & Award Presentation: Show Us Your Best Tips and Tricks 	Waterloo Ballroom
	Robert M. Schertzer MD, MEd, FRCSC	
11:29 AM – 11:34 AM	Xen Revision with Tenon's Window	Lorraine M. Provencher, MD
11:34 AM – 11:39 AM	Bleb Revision With Tenons Transposition Flap	Mary Qiu, MD
11:39 AM – 11:44 AM	Same-Quadrant Baerveldt 350 to Ahmed FP7 Exchange, With Capsule Autograft and Conjunctival Autograft	Mary Qiu, MD
11:44 AM – 11:49 AM	Will It Ever End?	Reza Razeghinejad, MD
11:49 AM – 11:54 AM	Gateway to Safe GATT – Overcoming the Learning Curve	Swati Upadhyaya, DNB, MBBS
11:54 AM – 11:57 AM	Voting and Award Presentation	
11:57 AM – 12:07 PM	Presentation of Innovator Award	Waterloo Ballroom
	Christopher A. Girkin, MD, MSPH	
12:07 PM – 12:12 PM	Introduction of Surgery Day Lecture	Waterloo Ballroom
	Leon W. Herndon, Jr. MD	
12:12 PM – 12:45 PM	Glaucoma Surgery Day Lecture 	Waterloo Ballroom
12:12 PM – 12:37 PM	Here Be Dragons: Surgical Care at the Edge of the Map	Jody R. Piltz-Seymour, MD
12:37 PM – 12:45 PM	Q&A Discussion	
12:45 PM – 12:45 PM	Announcements	
12:45 PM – 2:45 PM	<i>Lunch – On Your Own</i>	
12:45 PM – 2:00 PM	<i>President's Lunch (by invitation only)</i>	Room 603
2:45 PM – 3:30 PM	Surgery Day Section 3: Take It or Leave It? Addressing the Lens When Planning Glaucoma Surgery 	Waterloo Ballroom
	Moderators: Sonya B. Shah, MD & Leo K. Seibold, MD	
2:45 PM – 2:46 PM	Young Myope With Uncontrolled Uveitic Glaucoma and Early PSC	Moderators
2:46 PM – 2:50 PM	Take It	Monica K. Ertel, MD, PhD
2:50 PM – 2:54 PM	Leave It	Divakar Gupta MD
2:54 PM – 2:55 PM	Young Hyperope Still Narrow After LPI	Moderators
2:55 PM – 2:59 PM	Take It	Shelly Gupta Jain, MD
2:59 PM – 3:03 PM	Leave It	Eydie G. Miller Ellis, MD
3:03 PM – 3:04 PM	Middle-Aged Patient With Progressing NTG	Moderators
3:04 PM – 3:08 PM	Take It	Larissa Camejo, MD
3:08 PM – 3:12 PM	Leave It	Daniel Lee, MD
3:12 PM – 3:13 PM	Worsening PXG With Trace Nuclear Sclerosis	Moderators
3:13 PM – 3:17 PM	Take It	Reza Razeghinejad, MD
3:17 PM – 3:21 PM	Leave It	Richard K. Lee, MD, PhD
3:21 PM – 3:30 PM	Discussion	
3:30 PM – 3:33 PM	<i>Transition</i>	


TIME	EVENT / TITLE	LOCATION / SPEAKER
3:33 PM – 4:33 PM	Surgery Day Section 4 – The AGS/ASCRS Symposium: Refractive Considerations in Glaucoma Patients – Optimizing Outcomes and Quality of Life 	Waterloo Ballroom
	Moderators: Craig J. Chaya, MD & Sameh Mosaed, MD	
3:33 PM – 3:38 PM	Welcome and Introduction	Craig J. Chaya, MD & Sameh Mosaed, MD
3:38 PM – 3:46 PM	Refractive Impact of Topical Meds	Kavitha R. Sivaraman, MD
3:46 PM – 3:52 PM	Panel Discussion	
3:52 PM – 4:00 PM	Contact Lens Management After Glaucoma Surgery	Austin R. Fox, MD
4:00 PM – 4:06 PM	Panel Discussion	
4:06 PM – 4:14 PM	Advanced Technology IOLs, Femto Laser and the Glaucoma Patient	Christine L. Larsen, MD
4:14 PM – 4:20 PM	Panel Discussion	
4:20 PM – 4:28 PM	Refractive Goals in Combined or Sequential Phaco/Glaucoma Surgery	Elizabeth A. Martin, MD
4:28 PM – 4:33 PM	Panel Discussion	
4:33 PM – 4:36 PM	<i>Transition</i>	
4:36 PM – 5:36 PM	Surgery Day Section 5: I Was Having a Great Day Until . . . 	Waterloo Ballroom
	Moderators: Carla I. Bourne, MD & Mary Qiu, MD	
4:36 PM – 4:43 PM	. . . My Patient Who Needs Surgery Mentioned He Is on an Anticoagulant.	Qi N. Cui, MD, PhD
4:43 PM – 4:50 PM	. . . I Entered the Suprachoroidal Space During Migs.	Won Kim, MD
4:50 PM – 4:57 PM	. . . The Anterior Chamber Filled With Blood.	Michael M. Lin, MD
4:57 PM – 5:06 PM	Discussion	All
5:06 PM – 5:13 PM	. . . The Conjunctiva Fell Apart.	Jonathan Eisengart, MD
5:13 PM – 5:20 PM	. . . I Lasered a Suture/Pulled a Ripcord Too Soon.	Sarah R. Wellik, MD
5:20 PM – 5:27 PM	Handling the Not-So-Great Days: Resilience for the Glaucoma Surgeon!	Travis C. Frazier, MD
5:27 PM – 5:36 PM	Discussion	
5:40 PM – 6:30 PM	<i>Young Glaucoma Specialist (YOGS) Reception (by invitation only)</i>	Waller Foyer
6:30 PM – 8:30 PM	Super Bowl of Grand Rounds: Cases & Cocktails Working Reception – AGS Members Only	Diamond Theater – Waller ABCD
	Moderators: Jody R. Piltz-Seymour, MD & Douglas J. Rhee, MD	

FRIDAY, MARCH 3


7:00 AM – 7:50 AM	Morning Yoga	Zanzibar
7:00 AM – 9:00 AM	<i>Breakfast – Exhibit Hall</i>	Moontower Hall
7:00 AM – 5:00 PM	Registration	Waterloo Foyer
7:00 AM – 4:00 PM	<i>Exhibit Hall Viewing</i>	Moontower Hall
7:30 AM – 8:30 AM	Top Posters Presentation Session 2	Moontower Hall
8:30 AM – 10:30 AM	Spouse/Guest Hospitality Room	4th Floor Lounge
9:00 AM – 9:04 AM	Announcements	

TIME	EVENT / TITLE		LOCATION / SPEAKER
9:04 AM – 10:04 AM	Paper Presentations: Genetics & Glaucoma Populations 		Waterloo Ballroom
	Moderators: Shan C. Lin, MD & Ta Chen Peter Chang, MD		
	9:04 AM – 9:11 AM	Screening and Intervention for Glaucoma and Eye Health Through Telemedicine Program: First-Year Outcomes	Paula Anne Newman-Casey, MD
	9:11 AM – 9:16 AM	Discussion/Practical Applications	
	9:16 AM – 9:23 AM	Prevalence and Risk Factors for Open-Angle Glaucoma in Chinese Americans: The Chinese American Eye Study	Grace M. Richter, MD, MPH
	9:23 AM – 9:28 AM	Discussion/Practical Applications	
	9:28 AM – 9:35 AM	Deep Phenotyping Across Primary Open-Angle Glaucoma Polygenic Burden	Sayuri Sekimitsu, BS
	9:35 AM – 9:40 AM	Discussion/Practical Applications	
	9:40 AM – 9:47 AM	Polygenic Risk Score Improves Prediction of Primary Open-Angle Glaucoma Onset in the Ocular Hypertension Treatment Study	Rishabh Singh, BS
	9:47 AM – 9:52 AM	Discussion/Practical Applications	
	9:52 AM – 9:59 AM	Automated, Affordable, and Accurate Glaucoma Screening Using Easy-to-Use AI on a Smartphone-Based Fundus Camera	Swati Upadhyaya, DNB, DOMS
	9:59 AM – 10:04 AM	Discussion/Practical Applications	
10:04 AM – 10:07 AM	<i>Transition</i>		
10:07 AM – 11:07 AM	Symposium 1: Joint AGS/EGS – Glaucoma Diagnostics – Views From Each Side of the Pond 		Waterloo Ballroom
	Moderators: Kouros Nouri-Mahdavi, MD, MSC & Teresa C. Chen, MD		
	10:07 AM – 10:08 AM	Introduction	
	10:08 AM – 10:16 AM	Imaging the (Highly) Myopic Glaucoma Eye	Linda Zangwill, PhD
	10:16 AM – 10:24 AM	BMO-MRW: What We Have Learned a Decade Later?	Claude F. Burgoyne, MD
	10:24 AM – 10:32 AM	Macular Structure and Function Revisited	Giovanni Montesano, MD
	10:32 AM – 10:40 AM	New Visual Field Algorithms, Techniques, and Beyond	Felipe A. Medeiros, MD, PhD
	10:40 AM – 10:48 AM	Prediction of VFs From OCT Images	David F. Garway-Heath, MD
	10:48 AM – 10:56 AM	Update on AI in Glaucoma Diagnostics	Ingeborg Stalmans, MD, PhD
	10:56 AM – 11:07 AM	Panel Discussion	
11:07 AM – 11:10 AM	<i>Transition</i>		
11:10 AM – 11:15 AM	Presentation of President's Award Christopher A. Girkin, MD, MSPH		Waterloo Ballroom
11:15 AM – 12:05 PM	DC Update 		Waterloo Ballroom
	Moderators: Christopher A. Girkin, MD, MSPH & Leon W. Herndon Jr., MD		
	11:15 AM – 11:18 AM	Introduction	Christopher A. Girkin, MD, MSPH & Leon W. Herndon Jr., MD
	11:18 AM – 11:23 AM	Advocacy & You	Sarwat Salim, MD
	11:23 AM – 11:32 AM	AAO VP	Rebecca Hyder

TIME	EVENT / TITLE		LOCATION / SPEAKER
	11:32 AM – 11:41 AM	AAO President	Daniel J. Briceland, MD
	11:41 AM – 11:50 AM	Rep. McBath Presentation	Rep. McBath
	11:50 AM – 12:05 PM	Panel Discussion and Q&A	Wiley Chambers, MD & all speakers
12:05 PM – 1:35 PM	<i>Exhibit Hall Break</i>		Moontower Hall
1:35 PM – 2:35 PM	Symposium 2: Real World Dilemmas – “The Grey Zone” 		Waterloo Ballroom
	Moderators: Husam Ansari, MD, PhD & Carla J. Siegfried, MD		
	1:35 PM – 1:45 PM	Your 52-Yo Small Business Owner on Max Meds Has Slowly-Progressing Ntg? Do You Operate? When?	George H. Tanaka, MD
	1:45 PM – 1:50 PM	Discussion	
	1:50 PM – 2:00 PM	Is It “Standard of Care” to Offer MIGS With Cataract Surgery?	Ian Patrick Conner, MD, PhD
	2:00 PM – 2:05 PM	Discussion	
	2:05 PM – 2:15 PM	Beef up Your Toolkit for Tube Erosion Repair	Ambika Sud Hoguet, MD
	2:15 PM – 2:20 PM	Discussion	
	2:20 PM – 2:30 PM	The Year of Magical Thinking: When Your Glaucoma Patient Doesn’t Think Anything’s Wrong	Cheryl Lyn Khanna, MD
	2:30 PM – 2:35 PM	Discussion	
2:35 PM – 2:38 PM	<i>Transition</i>		
2:38 PM – 2:43 PM	Presentation of Guest of Honor		Waterloo Ballroom
	Christopher A. Girkin, MD, MSPH		
2:43 PM – 2:48 PM	Introduction of AGS Lecture		Waterloo Ballroom
	Christopher A. Girkin, MD, MSPH		
2:48 PM – 3:23 PM	AGS Lecture 		Waterloo Ballroom
	2:48 PM – 3:13 PM	Mobility and Glaucoma: Repercussion, Room, or Remedy?	Pradeep Y. Ramulu, MD, PhD
	3:13 PM – 3:23 PM	Q&A Discussion	
3:23 PM – 3:53 PM	<i>Exhibit Hall Break</i>		Moontower Hall
3:23 PM – 3:53 PM	Medal Level Supporter Meet & Greet w/ AGS Leadership		Waller Foyer
3:53 PM – 4:53 PM	Paper Presentations: Diagnostics & Imaging 		Waterloo Ballroom
	Moderators: Atalie C. Thompson, MD, MPH & Steven L. Mansberger, MD, MPH		
	3:53 PM – 4:00 PM	Comparing the Accuracy of Peripapillary OCT Scans and Visual Fields to Detect Glaucoma Worsening	Christopher Bradley, PhD
	4:00 PM – 4:05 PM	Discussion/Practical Applications	
	4:05 PM – 4:12 PM	Validation of Rates of Retinal Nerve Fiber Layer Change as Clinically Relevant Endpoints for Glaucoma Progression	Alessandro Adad Jammal, MD
	4:12 PM – 4:17 PM	Discussion/Practical Applications	
	4:17 PM – 4:24 PM	Predicting Progression to Severe Glaucoma Based on Visual Field Tests	Jiaxing Liu, MS
	4:24 PM – 4:29 PM	Discussion/Practical Applications	

TIME	EVENT / TITLE	LOCATION / SPEAKER
	4:29 PM – 4:36 PM The Effect of Achieving Target Intraocular Pressure on Optical Coherence Tomography Worsening Compared to Visual Field Worsening	Alex Pham, BS
	4:36 PM – 4:41 PM Discussion/Practical Applications	
	4:41 PM – 4:48 PM Biometric Risk Factors for Angle Closure Progression After Laser Peripheral Iridotomy: The Zhongshan Angle Closure Prevention Trial	Benjamin Xu, MD, PhD
	4:48 PM – 4:53 PM Discussion/Practical Applications	
4:53 PM – 4:56 PM	<i>Transition</i>	
4:56 PM – 5:56 PM	Symposium 3: Women in Glaucoma (WinG) – Gender Disparities in Ophthalmology 	Waterloo Ballroom
	Moderators: Shivani S. Kamat, MD & Lorraine M. Provencher, MD	
	4:56 PM – 5:02 PM Topic 1: Industry Relationships and Payment	Jella Angela An, BSC, FRCSC MD,
	5:02 PM – 5:08 PM Topic 2: Surgical Volume and Training	Kateki Vinod, MD
	5:08 PM – 5:14 PM Topic 3: Leadership & Subspecialty Society Representation	Regine Pappas, MD
	5:14 PM – 5:26 PM Panel Discussion/Q&A	Marlene R. Moster, MD, Anne L. Coleman, MD, PhD, Shivani S. Kamat, MD, Lorraine M. Provencher, MD, Jella Angela An, BSC, FRCSC MD, Kateki Vinod, MD, Regine Pappas, MD
	<i>Transition to next segment</i>	
	5:26 PM – 5:36 PM Contract Negotiation: The Challenges	Sarwat Salim, MD
	5:36 PM – 5:46 PM Contract Negotiation: Practical Solutions	Paul P. Lee, MD, JD
	5:46 PM – 5:56 PM Audience Q&A	
5:56 PM – 6:56 PM	WinG Happy Hour (All Welcome)	Waterloo Foyer

SATURDAY, MARCH 4



6:30 AM – 7:30 AM	AGS Fun Run/Walk	Hotel Lobby
7:00 AM – 5:00 PM	Registration	Waterloo Foyer
7:00 AM – 9:00 AM	<i>Breakfast – Exhibit Hall</i>	Moontower Hall
7:30 AM – 8:30 AM	Top Posters Presentation Session 3	Moontower Hall
7:00 AM – 1:30 PM	<i>Exhibit Hall Viewing</i>	Moontower Hall
8:30 AM – 10:30 AM	Spouse/Guest Hospitality Room	4th Floor Lounge
9:00 AM – 9:00 AM	Announcements	Waterloo Ballroom
9:00 AM – 10:00 AM	TOP 5 Plenary Paper Presentations 	Waterloo Ballroom
	Moderators: Rachel W. Kuchtey, MD, PhD & John Danias, MD, PhD	
	9:00 AM – 9:07 AM Vision and Nonvision Factors Associated With At-Risk Driving in Older Adults With and Without Glaucoma	Anjali Bhorade, MD
	9:07 AM – 9:12 AM Discussion/Practical Applications	

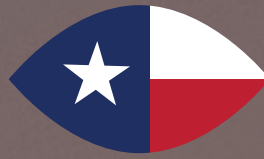
TIME	EVENT / TITLE	LOCATION / SPEAKER
	9:12 AM – 9:19 AM Prediction of Visual Field Progression With Serial Optic Disc Photographs Using Deep Learning	Vahid Mohammadzadeh, MD
	9:19 AM – 9:24 AM Discussion/Practical Applications	
	9:24 AM – 9:31 AM Optical Coherence Tomography Measures Lamina Cribrosa Strain With Intraocular Pressure Change as a Biomarker for Glaucoma Damage	Harry A. Quigley, MD
	9:31 AM – 9:36 AM Discussion/Practical Applications	
	9:36 AM – 9:43 AM Subconjunctival Delivery of Stanniocalcin-1 via Adenoassociated Virus Provides Sustained Intraocular Pressure Reduction	Gavin Roddy, MD, PhD
	9:43 AM – 9:48 AM Discussion/Practical Applications	
	9:48 AM – 9:55 AM Personalized Frequencies of Visual Field Testing for Patients With Primary Open-Angle Glaucoma	Brian C. Stagg, MD, MS
	9:55 AM – 10:00 AM Discussion/Practical Applications	
10:00 AM – 10:03 AM	<i>Transition</i>	
10:03 AM – 11:33 AM	Symposium 4: Getting to the End of the Road: How to Manage the Patient Who Is Progressing in Spite of Single Digit Pressures 	Waterloo Ballroom
	Moderators: Qi N. Cui, MD, PhD & Lisa Fran Rosenberg, MD	
10:03 AM – 10:05 AM	Introduction	Qi N. Cui, MD, PhD
10:05 AM – 10:10 AM	Setting the Scene: A Patient With NTG	Shivani S. Kamat, MD
10:10 AM – 10:20 AM	Getting Low With Medications and Laser: Do's and Don'ts for NTG	Wallace L. M. Alward, MD
10:20 AM – 10:30 AM	Getting Low, but Not Too Low: Surgical Tips for Trabeculectomy With Goal in Single Digits	Paul F. Palmberg MD, PhD
10:30 AM – 10:34 AM	Audience Q&A	
10:34 AM – 10:44 AM	Single Digits but Still Progressing – Now What? Part 1: Neuroprotection	Milica A. Margeta, MD, PhD
10:44 AM – 10:54 AM	Single Digits but Still Progressing – Now What? Part 2: Optimizing Systemic Factors	Victoria Addis, MD
10:54 AM – 11:04 AM	What Else Can We Offer? Vision Rehabilitation for People With Glaucoma	Ranjoo Prasad, OD
11:04 AM – 11:08 AM	Audience Q&A	
11:08 AM – 11:13 AM	Introduction to Panel Discussion	Qi N. Cui, MD, PhD & Lisa Fran Rosenberg, MD
11:13 AM – 11:33 AM	Panel Discussion: Approaching Difficult Conversations With Your Patient and Management Pearls	Qi N. Cui, MD, PhD, Lisa Fran Rosenberg, MD, Shivani S. Kamat, MD, Wallace L. M. Alward, MD, Paul F. Palmberg, MD, PhD, Milica A. Margeta, MD, PhD, Victoria Addis, MD, Ranjoo Prasad
11:33 AM – 11:40 AM	FDA CERSI Project Update – PROM for MIGS	Waterloo Ballroom
	Kuldev Singh, MD, MPH	

TIME	EVENT / TITLE	LOCATION / SPEAKER
11:40 AM – 1:30 PM	<i>Break – Exhibit Hall</i>	Moontower Hall
11:45 AM – 1:15 PM	YOGS Mentoring Roundtable Lunch (by invitation only)	Diamond Theater – Waller ABCD
1:30 PM – 3:30 PM	Exhibitor Teardown	Moontower Hall
1:30 PM – 2:30 PM	Paper Presentations: Glaucoma Medications, Glaucoma & Quality of Life Issues 	Waterloo Ballroom
	Moderators: Philip P. Chen, MD & Angelo P. Tanna, MD	
1:30 PM – 1:37 PM	Incidence of Acute Cystoid Macular Edema After Starting a Topical Prostaglandin Analog Compared With a Topical Beta-Blocker	Yujia Zhou, MD
1:37 PM – 1:42 PM	Discussion/Practical Applications	
1:42 PM – 1:49 PM	Initial Rates of Progressive Visual Field Loss and Subsequent Quality of Life Outcomes in Glaucoma	Alireza Kamalipour, MD, MPH
1:49 PM – 1:54 PM	Discussion/Practical Applications	
1:54 PM – 2:01 PM	Assessing the Efficacy of Different Ocular Hypotensive Medication Regimens Following Microinvasive Glaucoma Surgeries	Sruti Sai Rachapudi, BS
2:01 PM – 2:06 PM	Discussion/Practical Applications	
2:06 PM – 2:13 PM	Bimatoprost Induction of Lymphangiogenesis as a Potential Mechanism of Sustained IOP Reduction	Douglas J. Rhee, MD
2:13 PM – 2:18 PM	Discussion/Practical Applications	
2:18 PM – 2:25 PM	Reduced Rates of Glaucoma Surgery Associated With Systemic Inhibition of the Angiotensin System	James J. Armstrong, MD, PhD
2:25 PM – 2:30 PM	Discussion/Practical Applications	
2:30 PM – 2:33 PM	<i>Transition</i>	
2:33 PM – 2:48 PM	Presentation of International Scholar, Outstanding Educator, and Humanitarian Awards	Waterloo Ballroom
	Christopher A. Girkin, MD, MSPH	
2:48 PM – 2:53 PM	Introduction of Clinician Scientist Lecture	Waterloo Ballroom
	Michele C. Lim, MD	
2:53 PM – 3:28 PM	Clinician Scientist Lecture 	Waterloo Ballroom
2:53 PM – 3:18 PM	Leveraging the Power of Big Data to Capture Glaucoma Care Quality	Joshua D. Stein, MD, MS
3:18 PM – 3:28 PM	Q&A Discussion	
3:28 PM – 3:38 PM	<i>Break</i>	
3:38 PM – 5:08 PM	Symposium 5: Practice Management – How Do I . . . Better? 	Waterloo Ballroom
	Moderators: Michele C Lim, MD & Samuel P Solish, MD	
3:38 PM – 3:46 PM	How Do I Make My Schedule Template Better?	Steven L. Mansberger, MD, MPH
3:46 PM – 3:54 PM	How Do I Make My Schedule Template Better?	Robert D. Fechtner, MD
3:54 PM – 4:02 PM	How Do I Make My Patient Flow Better?	Robert M. Feldman, MD
4:02 PM – 4:10 PM	How Do I Make My Patient Flow Better?	Ninita H. Brown, MD, PhD

TIME	EVENT / TITLE	LOCATION / SPEAKER
	4:10 PM – 4:18 PM How Do I Track My Patients Through Their Visit Better? (AKA, Where Is My Patient?)	Roma P. Patel, MD
	4:18 PM – 4:26 PM How Do I Track My Patients Through Their Visit Better? (AKA, Where Is My Patient?)	Paula Anne Newman-Casey, MD
	4:26 PM – 4:36 PM How to Document Better	Ronald Leigh Fellman, MD
	4:36 PM – 5:08 PM Discussion	
5:15 PM – 6:15 PM	<i>MAPS Lecture & Networking (Invite Only)</i>	Diamond Theater – Waller ABCD
6:30 PM – 9:00 PM	AGS Closing Reception	Zanzibar Restaurant

SUNDAY, MARCH 5

7:00 AM – 9:00 AM	Registration	Waterloo Foyer
7:00 AM – 9:00 AM	<i>Breakfast</i>	Waller Foyer
8:00 AM – 9:00 AM	Breakfast Roundtable Discussions (AGS Members Only) 	Waller DEF
	Moderators:	
	How to Write a Better Research Grant in Glaucoma	Ying Han, MD, PhD Benjamin J. Frankfort, MD, PhD
	DEI: How to Improve Diversity in Our Trainees	William A. Argus, MD Jonathan S. Hernandez, MD
	Practice Management Pearls	Ruth D. Williams, MD Zachary Daniel Vest, MD
	Pregnancy in Glaucoma	Cara Capitena, MD Sarwat Salim, MD
	Integrating Physician Extenders in Your Practice	Anna C. Momont, MD Eliesa A. Ing, MD
	Challenging Pediatric Glaucoma Cases	James D. Brandt, MD Peter A. Netland, MD, PhD
	How to Prepare for Retirement?	Alan L. Robin, MD Robert L. Stamper, MD
	Global Glaucoma	Oluwatosin U. Smith, MD Mildred M. G. Olivier, MD
	Pandemic Recovery Life-Work Balance	Aakriti Garg Shukla, MD George A. Cioffi, MD
	How to Survive Your First Year out of Fellowship	Arash M. Davanian, DO Natasha Nayak Kolomeyer, MD
	How to Interpret Imaging for Disease Progression	Luis E. Vazquez, MD, PhD Hady Saheb, MD, MPH
9:00 AM – 11:00 AM	Coding Workshop (AGS Members Only) 	Diamond Theater – Waller ABCD
	Moderator: Joy Woodke, COE	
	Panelists: Emily Patterson Jones, MD & Ronald Leigh Fellman, MD	



AGS **2023**

ANNUAL MEETING

★ AUSTIN, TEXAS

MARCH 2-5

HYBRID: IN-PERSON & VIRTUAL

SYMPOSIA



AMERICAN
GLAUCOMA
SOCIETY

Symposia

Chairs:

Michele C. Lim, MD &
Kouros Nouri-Mahdavi, MD, MSC

Wednesday, March 1

Physician Wellness Workshop

Moderators:

Jullia Rosdahl, MD, PhD &
Amy Duoxi Zhang, MD

Summary

At the 2022 AGS Patient Engagement Symposium, the importance of authenticity and compassion from glaucoma doctors was noted by the patients and speakers. Since we can really only be our authentic selves at work when our own wellbeing is considered, the goal of this Physician Wellness Symposium is to offer practical wellness strategies for busy doctors to help find ways to survive and thrive; the program will start with more concrete individual practices, move to more systemic issues, and end with personal and inspirational practices for resilience.

Introduction & Overview of Workshop

Jullia Rosdahl, MD, PhD

First Things, First: Ergonomics

Amy Duoxi Zhang, MD

**From Surviving to Thriving:
EMR and Pearls for Getting Through the Day**

Michael V. Boland, MD, PhD

**From Surviving to Thriving:
Email and Pearls for
Getting Through the Evening**

Atalie C. Thompson, MD, MPH

Coping in Clinic: Running Behind, Again

Misha F. Syed, MD

**Coping With Admin:
Resources, What Resources?**

Tania Lamba, MD

Coping in the OR: Who's in Charge Here?

David Fleischman, MD, MS

**Panel Discussion on "Coping"
Scenarios With Wellness Coach**

Karen Kingsolver, PhD

**Evidence-Based Practical Strategies
for Enhancing Resilience**

Karen Kingsolver, PhD

Glaucoma Surgery Day

Thursday, March 2

Co-Chairs:

Joanne C. H. Wen, MD &
Sonya B. Shah, MD

Surgery Day Section I: Primary Surgical Choices for Secondary Glaucomas: What Does the Literature Tell Us?

Moderators:

Joanne C. H. Wen, MD &
Aiyin Chen, MD

Managing IOP Inflation After Traumatic Angle Recession

Daniel Benjamin Moore, MD

Pump up Those Surgical Muscles for Steroid-Induced Glaucoma

Douglas J. Rhee, MD

Hot Surgical Tips for Hot Uveitic Eyes

Keith Barton, MD, FRCP, FRCS

Clearly the Best Approaches Post PKP/DSEK

JoAnn A. Giaconi, MD

Buckle up to Bring Down IOP Post Anti-VEGF Injections and Retinal Surgery

Pratap Challa, MD

Surgery Day Section 2 – Paper Presentations

Moderators:

Peter T. Chang, MD &
Peter A. Netland, MD, PhD

Prospective Study of Standalone Multiple Trabecular Micro-Bypass Stents for Uncontrolled Glaucoma

Iqbal Ike K. Ahmed, MD

Perioperative Anticoagulation Management Patterns Related to Minimally Invasive Glaucoma Surgery (MIGS)

Tejus Pradeep, MD

First-in-Human Study of Nonincisional, Femtosecond Laser Image-Guided High-Precision Trabeculotomy (FLigHT) in Open-Angle Glaucoma and Ocular Hypertensive Patients: Twelve-Month Outcomes

Thomas W. Samuelson, MD

Treatment Patterns and Predictors of Glaucoma Surgery in Primary Angle Closure Glaucoma: An IRIS® Registry Analysis

Carina Sanvicente MD

Two-Year Safety and Efficacy Results of a Supraciliary Drainage Device in Patients With Open-Angle Glaucoma – A Meta-analysis From the STAR-I, STAR-II, and STAR-III Studies

Inder Paul Singh, MA, MD

Surgical Video Finalists & Award Presentation

Moderator:

Robert M. Schertzer, MD, MEd, FRCSC

Xen Revision with Tenon's Window

Lorraine M. Provencher, MD

Bleb Revision With Tenons Transposition Flap

Mary Qiu, MD

Same-Quadrant Baerveldt 350 to Ahmed FP7 Exchange, With Capsule Autograft and Conjunctival Autograft

Mary Qiu, MD

Will It Ever End?

Reza Razeghinejad, MD

Gateway to Safe GATT – Overcoming the Learning Curve

Swati Upadhyaya, DNB, MBBS

Surgery Day Section 3: Take It or Leave It? Addressing the Lens When Planning Glaucoma Surgery

Moderators:

Sonya B. Shah, MD &

Leo K. Seibold, MD

YOUNG MYOPE WITH UNCONTROLLED UVEITIC GLAUCOMA AND EARLY PSC

Take It

Monica K. Ertel, MD, PhD

Leave It

Divakar Gupta, MD

YOUNG HYPEROPE STILL NARROW AFTER LPI

Take It

Shelly Gupta Jain, MD

Leave It

Eydie G. Miller-Ellis, MD

MIDDLE-AGED PATIENT WITH PROGRESSING NTG

Take It

Larissa Camejo, MD

Leave It

Daniel Lee, MD

WORSENING PXG WITH TRACE NUCLEAR SCLEROSIS

Take It

Reza Razeghinejad, MD

Leave It

Richard K. Lee, MD, PhD

Surgery Day Section 4: The AGS/ASCRS Symposium: Refractive Considerations in Glaucoma Patients – Optimizing Outcomes and Quality of Life

Moderators:

*Craig J. Chaya, MD &
Sameh Mosaed, MD*

Summary

Refractive outcomes are a critical issue that deserve more attention when managing glaucoma patients. In this symposium, we will explore the refractive implications of topical medications, contact lens options for patients with prior filtering surgery, advanced technology IOLs for patients with mild/moderate glaucoma, and pre-op refractive planning in combined and sequential cataract/glaucoma surgeries.

Welcome and Introduction

*Craig J. Chaya, MD &
Sameh Mosaed, MD*

Refractive Impact of Topical Meds

Kavitha R. Sivaraman, MD

Contact Lens Management After Glaucoma Surgery

Austin R. Fox, MD

Advanced Technology IOLs, Femto Laser and the Glaucoma Patient

Christine L. Larsen, MD

Refractive Goals in Combined or Sequential Phaco/Glaucoma Surgery

Elizabeth A. Martin, MD

Surgery Day Section 5: I Was Having a Great Day Until . . .

Moderators:

*Carla I. Bourne, MD &
Mary Qiu, MD*

. . . My Patient Who Needs Surgery Mentioned He Is on an Anticoagulant.

Qi N. Cui, MD, PhD

. . . I Entered the Suprachoroidal Space During Migs.

Won Kim, MD

. . . The Anterior Chamber Filled With Blood.

Michael M. Lin, MD

. . . The Conjunctiva Fell Apart.

Jonathan Eisengart, MD

. . . I Lasered a Suture/Pulled a Ripcord Too Soon.

Sarah R. Wellik, MD

Handling the Not-So-Great Days: Resilience for the Glaucoma Surgeon!

Travis C. Frazier, MD

Friday, March 4

Paper Presentations: Genetics & Glaucoma Populations

Moderators:

Shan C. Lin, MD &
Ta Chen Peter Chang, MD

Screening and Intervention for Glaucoma and Eye Health Through Telemedicine Program: First-Year Outcomes

Paula Anne Newman-Casey, MD

Prevalence and Risk Factors for Open-Angle Glaucoma in Chinese Americans: The Chinese American Eye Study

Grace M. Richter, MD, MPH

Deep Phenotyping Across Primary Open-Angle Glaucoma Polygenic Burden

Sayuri Sekimitsu, BS

Polygenic Risk Score Improves Prediction of Primary Open-Angle Glaucoma Onset in the Ocular Hypertension Treatment Study

Rishabh Singh, BS

Automated, Affordable, and Accurate Glaucoma Screening Using Easy- to-Use AI on a Smartphone-Based Fundus Camera

Swati Upadhyaya, DNB, DOMS

Symposium I: Joint AGS/EGS – Glaucoma Diagnostics – Views From Each Side of the Pond

Moderators:

Kouros Nouri-Mahdavi, MD, MSC &
Teresa C. Chen, MD

Summary

Diagnostic tools play an important role in the day-to-day management of glaucoma patients. This symposium will provide an update on various features of glaucoma diagnostic tools. Topics include the utility of newer structural outcomes such as the Bruch's membrane opening-minimum rim width (BMO-MRW), prediction of visual field measures from structural OCT measures, an update on the most recent developments in functional approaches to glaucoma diagnosis including visual fields, better understanding and optimization of macular structure-function relationships, and the use of artificial intelligence to enhance various diagnostic tasks. Finally, the symposium ends with a review of the challenges encountered in the diagnosis of glaucoma or detection of disease progression in (highly) myopic patients and clinical pearls will be provided to enable clinicians to enhance diagnostic tasks in this group of challenging eyes.

Imaging the (Highly) Myopic Glaucoma Eye

Linda Zangwill, PhD

BMO-MRW: What We Have Learned a Decade Later?

Claude F. Burgoyne, MD

Macular Structure and Function Revisited

Giovanni Montesano, MD

New Visual Field Algorithms, Techniques, and Beyond

Felipe A. Medeiros, MD, PhD

Prediction of VFs From OCT Images

David F. Garway-Heath, MD

Update on AI in Glaucoma Diagnostics

Ingeborg Stalmans, MD, PhD

DC Update

Moderators:

Christopher A. Girkin, MD, MSPH &
Leon W. Herndon Jr., MD

Summary

DC update concerns new national rules and regulations concerning the regulatory environment, specifically government rules and regulations concerning the healthcare environment of the practicing ophthalmologist.

Introduction

Christopher A. Girkin, MD, MSPH &
Leon W. Herndon Jr., MD

Advocacy & You

Sarwat Salim, MD

AAO VP

Rebecca Hyder

AAO President

Daniel J. Briceland, MD

Rep. McBath Presentation

Rep. McBath

Panel Discussion and Q&A

Wiley Chambers, MD & Speakers

Symposium 2: Real World Dilemmas – “The Grey Zone”

Moderators:

Husam Ansari, MD, PhD &
Carla J. Siegfried, MD

Summary

Glaucoma care includes many gray areas where the literature is not explicit in guiding us on what to do for our patients. This symposium identifies some of those gray areas and provides a forum for discussion on these important topics.

We will discuss the case of a busy middle-aged adult who is progressing slowly at low intraocular pressure. The patient is currently asymptomatic, but the progression is real. You know the patient requires surgery, but which surgery? and when?

What can you do when your patient fundamentally misunderstands glaucoma, incorrectly believes that they don't need to follow your recommendations, and seeks your approval to utilize self-researched, faulty treatment approaches? How do you manage patients with this “magical thinking”?

Is offering MIGS to glaucoma patients undergoing cataract surgery now considered standard-of-care or is it acceptable for some glaucoma patients to have their cataract surgery and not know that MIGS is an option?

How and when do you fix and exposed glaucoma drainage device?

Your 52-Yo Small Business Owner on Max Meds Has Slowly-Progressing Ntg? Do You Operate? When?

George H. Tanaka, MD

Is It “Standard of Care” to Offer MIGS With Cataract Surgery?

Ian Patrick Conner, MD, PhD

Beef up Your Toolkit for Tube Erosion Repair

Ambika Sud Hoguet, MD

The Year of Magical Thinking: When Your Glaucoma Patient Doesn't Think Anything's Wrong

Cheryl Lyn Khanna, MD

Paper Presentations: Diagnostics & Imaging

Moderators:

Atalie C. Thompson, MD, MPH &
Steven L. Mansberger, MD, MPH

Comparing the Accuracy of Peripapillary OCT Scans and Visual Fields to Detect Glaucoma Worsening

Christopher Bradley, PhD

Validation of Rates of Retinal Nerve Fiber Layer Change as Clinically Relevant Endpoints for Glaucoma Progression

Alessandro Adad Jammal, MD

Predicting Progression to Severe Glaucoma Based on Visual Field Tests

Jiaxing Liu, MS

The Effect of Achieving Target Intraocular Pressure on Optical Coherence Tomography Worsening Compared to Visual Field Worsening

Alex Pham, BS

Biometric Risk Factors for Angle Closure Progression After Laser Peripheral Iridotomy: The Zhongshan Angle Closure Prevention Trial

Benjamin Xu, MD, PhD

Symposium 3: Women in Glaucoma (WinG) – Gender Disparities in Ophthalmology

Moderators:

Shivani S. Kamat, MD &
Lorraine M. Provencher, MD

Topic 1: Industry Relationships and Payment

Jella Angela An, BSC, FRCSC, MD

Topic 2: Surgical Volume and Training

Kateki Vinod, MD

Topic 3: Leadership & Subspecialty Society Representation

Regine Pappas, MD

Panel Discussion/Q&A

Marlene R. Moster, MD,
Anne L. Coleman, MD, PhD &
all presenters

Contract Negotiation: The Challenges

Sarwat Salim, MD

Contract Negotiation: Practical Solutions

Paul P. Lee, MD, JD

Saturday, March 4

TOP 5 Plenary Paper Presentations

Moderators:

Rachel W. Kuchtey, MD, PhD &
John Danias, MD, PhD

Vision and Nonvision Factors Associated With At-Risk Driving in Older Adults With and Without Glaucoma

Anjali Bhorade, MD

Prediction of Visual Field Progression With Serial Optic Disc Photographs Using Deep Learning

Vahid Mohammadzadeh, MD

Optical Coherence Tomography Measures Lamina Cribrosa Strain With Intraocular Pressure Change as a Biomarker for Glaucoma Damage

Harry A. Quigley, MD

Subconjunctival Delivery of Stanniocalcin-I via Adenoassociated Virus Provides Sustained Intraocular Pressure Reduction

Gavin Roddy, MD, PhD

Personalized Frequencies of Visual Field Testing for Patients With Primary Open-Angle Glaucoma

Brian C. Stagg, MD, MS

Symposium 4: Getting to the End of the Road: How to Manage the Patient Who Is Progressing in Spite of Single Digit Pressures

Moderators:

Qi N. Cui, MD, PhD &
Lisa Fran Rosenberg, MD

Summary

This session will discuss management of glaucoma patients in need of single digit pressures, including those experiencing disease progression despite maximal medical and surgical intervention. Special considerations for medical and surgical management to optimize IOP lowering will be discussed, as well as the management of IOP-independent variables such as systemic factors and neuroprotection. Vision rehabilitation can be helpful for these patients and will also be a focus of the symposium. The session will conclude with a panel discussion of how to approach difficult patient conversations.

Setting the Scene: A Patient With NTG

Shivani S. Kamat, MD

Getting Low With Medications and Laser: Do's and Don'ts for NTG

Wallace L. M. Alward, MD

Getting Low, but Not Too Low: Surgical Tips for Trabeculectomy With Goal in Single Digits

Paul F. Palmberg MD, PhD

Single Digits but Still Progressing – Now What? Part 1: Neuroprotection

Milica A. Margeta, MD, PhD

Single Digits but Still Progressing – Now What? Part 2: Optimizing Systemic Factors

Victoria Addis, MD

What Else Can We Offer? Vision Rehabilitation for People With Glaucoma

Ranjoo Prasad, OD

Panel Discussion: Approaching Difficult Conversations With Your Patient and Management Pearls

All presenters.

Paper Presentations: Glaucoma Medications, Glaucoma & Quality of Life Issues

Moderators:

*Philip P. Chen, MD &
Angelo P. Tanna, MD*

Incidence of Acute Cystoid Macular Edema After Starting a Topical Prostaglandin Analog Compared With a Topical Beta-Blocker

Yujia Zhou, MD

Initial Rates of Progressive Visual Field Loss and Subsequent Quality of Life Outcomes in Glaucoma

Alireza Kamalipour, MD, MPH

Assessing the Efficacy of Different Ocular Hypotensive Medication Regimens Following Microinvasive Glaucoma Surgeries

Sruti Sai Rachapudi, BS

Bimatoprost Induction of Lymphangiogenesis as a Potential Mechanism of Sustained IOP Reduction

Douglas J. Rhee, MD

Reduced Rates of Glaucoma Surgery Associated With Systemic Inhibition of the Angiotensin System

James J. Armstrong, MD, PhD

Symposium 5: Practice Management – How Do I . . . Better?

Moderators:

*Michele C. Lim, MD &
Samuel P. Solish, MD*

Summary

How do I . . . better is a practical symposium that will explore strategies for creating the perfect patient schedule, for engineering smooth patient flow through your clinic, for more precisely tracking your patients whereabouts, and finally, for learning better ways to document the patient encounter better. Each topic will be reviewed by two presenters who will give their unique view. Examples of questions that will arise are: Do you do all visual field testing day of or do you schedule them as test only visits at another time? Do you have special time set aside for lasers or for challenging patients? Do you incorporate telemedicine for crowd control? Do you use scribes or other ancillary staff to help you through your day? How do you track patients in your clinic or in other words, “where is my patient?”.

How Do I Make My Schedule Template Better?

Steven L. Mansberger, MD, MPH

How Do I Make My Schedule Template Better?

Robert D. Fechtner, MD

How Do I Make My Patient Flow Better?

Robert M. Feldman, MD

How Do I Make My Patient Flow Better?

Ninita H. Brown, MD, PhD

How Do I Track My Patients Through Their Visit Better? (AKA, Where Is My Patient?)

Roma P. Patel, MD

How Do I Track My Patients Through Their Visit Better? (AKA, Where Is My Patient?)

Paula Anne Newman-Casey, MD

How Do I Track My Patients Through Their Visit Better? (AKA, Where Is My Patient?)

Ronald Leigh Fellman, MD



AGS **2023**

ANNUAL MEETING

★ AUSTIN, TEXAS

MARCH 2-5

HYBRID: IN-PERSON & VIRTUAL

BREAKFAST ROUNDTABLE DISCUSSIONS



AMERICAN
GLAUCOMA
SOCIETY

Breakfast Roundtable Discussions

Sunday, March 5

How to Write a Better Research Grant in Glaucoma

Moderator

Ying Han, MD, PhD

Moderator

Benjamin J. Frankfort, MD, PhD

DEI: How to Improve Diversity in Our Trainees

Moderator

William A. Argus, MD

Moderator

Jonathan S. Hernandez, MD

Practice Management Pearls

Moderator

Ruth D. Williams, MD

Moderator

Zachary Daniel Vest, MD

Pregnancy in Glaucoma

Moderator

Cara Capitena, MD

Moderator

Sarwat Salim, MD

Integrating Physician Extenders in Your Practice

Moderator

Anna C. Momont, MD

Moderator

Eliesa A. Ing, MD

Challenging Pediatric Glaucoma Cases

Moderator

James D. Brandt, MD

Moderator

Peter A. Netland, MD, PhD

How to Prepare for Retirement?

Moderator

Alan L. Robin, MD

Moderator

Robert L. Stamper, MD

Global Glaucoma

Moderator

Oluwatosin U. Smith, MD

Moderator

Mildred M. G. Olivier, MD

Pandemic Recovery Life-Work Balance

Moderator

Aakriti Garg Shukla, MD

Moderator

George A. Cioffi, MD

How to Interpret Imaging for Disease Progression

Moderator

Luis E. Vazquez, MD, PhD

Moderator

Hady Saheb, MD, MPH

How to Survive Your First Year out of Fellowship

Moderator

Arash M. Davanian, DO

Moderator

Natasha Nayak Kolomeyer, MD



AGS **2023**

ANNUAL MEETING

★ AUSTIN, TEXAS

MARCH 2-5

HYBRID: IN-PERSON & VIRTUAL

WORKSHOPS



AMERICAN
GLAUCOMA
SOCIETY

Workshops

Thursday, March 2

Super Bowl of Grand Rounds: Cases & Cocktails Working Reception

Moderator

Jody R. Piltz-Seymour, MD

Moderator

Douglas J. Rhee, MD

Sunday, March 6

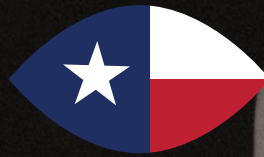
Coding Workshop

Moderator

Joy Woodke, COE

Panelists

*Emily Patterson Jones, MD &
Ronald Leigh Fellman, MD*



AGS **2023**

ANNUAL MEETING

★ AUSTIN, TEXAS

MARCH 2-5

HYBRID: IN-PERSON & VIRTUAL

POSTER SCHEDULE



AMERICAN
GLAUCOMA
SOCIETY

AGS 2023 Poster Schedule

All posters are available to view on the virtual meeting platform and app throughout the meeting. In Person Top Poster Presentation Sessions will be held in the exhibit hall from 7:30 am to 8:30 am on Thursday, Friday and Saturday.

Top Posters

THURSDAY, MARCH 2

Poster #	Presentation Group	Title	Full Name
1	1	Rate of Failure of Glaucoma Filtering Surgery in Uveitic Glaucoma	Sylvia Linner Groth, MD
2	1	Intermediate Safety and Efficacy Outcomes of the Novel 63- μ m Gelatin Microstent Versus the Conventional 45- μ m Gelatin Microstent	Isra M. Hussein, MD, MSc
3	1	Clinical Profile and Treatment Outcomes of Axenfeld-Rieger Syndrome in Children	Nikhila Khandwala, MS, MD
4	1	Goniotomy and Canaloplasty: A 2-Year Comparison of Outcomes and Safety	Maggie Wei, MD
5	2	Concurrent Goniotomy for Early Intraocular Pressure Lowering in Nonvalved Aqueous Shunt Implantation	Jacob A. Kanter, MD
6	2	The Role of Intraoperative Sub-Tenon's Triamcinolone Acetonide (TA) in the Hypertensive Phase Following Ahmed Glaucoma Valve (AGV) in Neovascular Glaucoma (NVG)	Jiemin Li, MD
7	2	Intraocular Pressure Spike Following Stand-Alone Phacoemulsification in IRIS [®] Registry Patients	Alcina K. Lidder, MD
8	2	Glaucoma Fellows-in-Training Recent Procedure Trends	Grace E. Nipp, BSPH
9	2	Long-Term Outcomes of SIBS Microshunt in Cases of Refractory and Nonrefractory Glaucoma	Anastasiya Vinokurtseva, BMSc, cMD2022
10	2	Retrospective Review of Multisurgeon Goniotomy Outcomes at a Single Institution: Effect of Postoperative Pilocarpine Use	Kevin Zhang
11	3	Corneal Endothelial Safety Profile of Three Different Minimally Invasive Glaucoma Surgery Stents	Ticiana De Francesco, MD
12	3	Treatment Outcomes of Glaucoma Drainage Device and Trabeculectomy With Mitomycin C in Angle-Closure Glaucoma	Sandy Samuel, BA
13	3	Comparing Outcomes of Xen Gel Stent Placed Ab Externo With Open Conjunctiva (XGS AEO) to Xen Gel Stent Placed Ab Externo With Closed Conjunctiva (XGS AEC)	Hani El Helwe, MD
14	3	The Use of Contact Lenses in Patients With Prior Bleb-Forming Glaucoma Surgery	Si Jie Tang
15	4	Cost-Utility Analysis of Prophylactic Laser Peripheral Iridotomy for Primary Angle Closure Suspects	Adam Rothman, MD
16	4	Outcomes of the Prospective Randomized Controlled Multicenter Phase III Trials of Intracameral Travoprost-Eluting Implants Versus Topical Timolol	Inder Paul Singh, MD, MA
17	4	A Randomized, Multicenter, Investigator-Masked, Parallel-Group Equivalence Study of PDP-716, a Once-Daily Brimonidine Tartrate Ophthalmic Suspension, Compared With Three Times Daily Alphagan P in Subjects With Open-Angle Glaucoma or Ocular Hypertension	Inder Paul Singh, MD, MA

19	4	Surgical Efficacy of Continuous Wave Transscleral and Micropulse Cyclophotocoagulation in Treatment of Glaucoma	Tina Xia
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FRIDAY, MARCH 3

Poster #	Presentation Group	Title	Full Name
20	5	The Impact of Coexisting Systemic Inflammatory Disease on Glaucoma Progression	Davina A. Malek, MD
21	5	Effect of Alzheimer's Disease and Other Dementias on Glaucoma Progression Over Time	Vahid Ownagh, MD
22	5	Relationship Between Claims-Based Frailty Index and Eye Care Utilization Among Medicare Beneficiaries With Glaucoma	Ayush Parikh, BS
23	5	Evaluating Discrepancies in Self-Reported Glaucoma and EHR Clinical Records Using the NIH's "All of Us" Database	Megan Paul, BA
24	5	Prevalence and Risk Factors of Primary Angle Closure Disease in an Adult Chinese American Population: The Chinese American Eye Study	Rohit Varma, MD, MPH
25	5	Hyperopia Is Associated With Greater Odds of Primary Angle Closure Glaucoma Among Minorities in Elderly California Medicare Beneficiaries	Melissa Yao, BA
26	6	The Association Between Frailty and Visual Field Loss in U.S. Adults	Isaac Bernstein, BS, BA
27	6	Impact of the COVID-19 Pandemic on Surgical Volumes Among Fellowship-Trained Glaucoma Subspecialists: A 5-Year Trend Analysis	Zain Hussain, BS
28	6	Incident Glaucoma After Periocular and Intravitreal Steroid Injections: A Claims-Based Analysis	Ashley Polski, MD
29	6	Racial and Ethnic Differences in Prevalence and Risk Factors of Shallow Anterior Chamber Depth: The Multiethnic Ophthalmology Cohorts of California Study	Abinaya Thenappan, BA, MD
30	6	Relationship Between Electronic Frailty Index Score and the Incidence of Falls and Fractures in Older Adults With Glaucoma or Glaucoma Suspect Diagnoses	Atalie C. Thompson, MD, MPH
31	6	Factors Associated With Return to Care After Lapse in Follow -Up for Glaucoma: An IRIS [®] Registry (Intelligent Research in Sight) Retrospective Cohort Analysis	Lauren M. Wasser, MD
32	7	NCX 470, a Nitric Oxide Donating Bimatoprost, Demonstrates Noninferiority to Latanoprost in Phase 3 Mont Blanc Clinical Trial	Robert Fechtner, MD
33	7	The OHTS 5-Year Risk Calculator Is Applicable to Treated Patients	Ari Leshno, MD
34	7	Prostaglandin Analog Use and Association With Cystoid Macular Edema in Post-Cataract Surgery Patients	Philip Chen, MD
35	7	Preservative-Free Versus Preserved Latanoprost 0.005% in Patients With Primary Open-Angle Glaucoma (POAG) or Ocular Hypertension (OHT): A US Phase 3 Study	Jason Bacharach, MD
36	7	Safety and Efficacy of a Single Administration of Bimatoprost Implant: One-Year Outcomes	Robert Weinreb, MD
37	8	Low Vision Patients Struggle Placing Eye Drops and Benefit From an Eye Drop Aid	Nicholas Grissom, MD
38	8	The European Glaucoma Society (EGS) Patient Involvement Initiative	Frances Meier-Gibbons, MD
39	8	Moving Beyond Race in Diagnostic Criteria for Glaucoma Screening: A Preliminary Analysis	Rithambara Ramachandran, BA, MD

40	8	Risk Factors for Developing Legal Blindness Among Pseudophakic Patients in the Bascom Palmer Glaucoma Repository	Swarup Sai Swaminathan, MD
41	8	Social Vulnerability and Incidence of Glaucoma Surgery in the California Medicare Population	Victoria L. Tseng, MD, PhD

SATURDAY, MARCH 4

Poster #	Presentation Group	Title	Full Name
42	9	Detection of Undiagnosed Glaucoma Using Macular Optical Coherence Tomography in Dry Age-Related Macular Degeneration	Eun Young Choi, MD
43	9	An OCT-Based Diagnostic Algorithm Can Help Delineate Healthy and Glaucomatous Eyes Within a Group of Glaucoma Suspects	Aakriti Garg Shukla, MD
44	9	Evaluation of Optic Nerve Head Blood Flow by Laser Speckle Flowgraphy in Glaucomatous Eyes With Disc Hemorrhage	Alexander Robin, MD
45	9	Inter-Eye Correlations of Optical Coherence Tomography Angiography Microvascular Parameters in Patients With Primary Open-Angle Glaucoma	Jessica Sun, BA
46	9	Predicting Visual Field Worsening With Longitudinal Optical Coherence Tomography Data Using a Gated Transformer Network	Jithin Yohannan, MD, MPH
47	10	Glaucomatous Optic Neuropathy in Relation to 24-h Ambulatory Blood Pressure Monitoring	Melgarejo D. Jesus,
4	10	Intraocular Pressure and Abdominal Insufflation Pressure: A Prospective Intraoperative Investigation During Robotic-Assisted Radical Prostatectomy	Samuel Asanad, MD
49	10	The Clinical Impact of Home Tonometry on Glaucoma Management and Comparison of IOP Parameters Measured at Home Versus Office Measurements	Galia Deitz, MD, MPH
50	10	A Systematic OCT-Based Approach Can Improve Ophthalmology Resident Performance in Glaucoma Detection	Sitara Hanif Hirji, MD
51	10	Ganglion Cell Complex Versus RNFL Rates of Change in Eyes With Moderate to Advanced Glaucoma	Massood Mohammadi, MD
52	10	Convolutional Neural Networks for Detection of Glaucoma Based on Optical Coherence Tomography Angiography Scans	Binh Vu
53	11	Improved Glaucoma Medication Access During the COVID-19 Era Through Partnership With an Institutional Pharmacy to Minimize Out-of-Pocket Costs: A Single-Institution Experience	Jin Choi, BS
54	11	Eye Drop Adherence With an Eye Drop Bottle Cap Monitor	Robert M. Kinast, MD
55	11	Veteran-Reported Facilitators and Barriers for Glaucoma Medication Adherence With Smart Bottle and Education-Based Intervention	Jay K. Rathinavelu, BSE
56	11	Influence of a Previsit Intervention on the Glaucoma and Glaucoma Medication Topics That Providers Educate African American Patients About During Visits	Betsy L. Sleath, PhD
57	12	Systemic Determinants of Episcleral Venous Flow	Victoria Yu Chen, MD
58	12	Optic Nerve Head Astrocyte Response to Compressive and Tensile Strains Using 3D Hydrogels	Preethi Ganapathy, MD, PhD
59	12	Predicting Glaucoma Progression to Surgery With Survival-Based AI Models	Sophia Wang, MD, MS

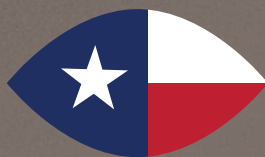
Virtual Posters

Title	Full Name
Aesthetic Indications for Removal of Glaucoma Drainage Devices in Pediatric Glaucoma: A Case Series	Rayan Abou Khzam, MD
Telemedicine Utilization Among Fellowship-Trained Glaucoma Surgeons During the COVID-19 Pandemic	Joana Andoh, MD
Comparison of Peripapillary Choroidal Thickness Between Primary Open-Angle Glaucoma, Normal-Tension Glaucoma, and Normal Eyes: A Systematic Review and Meta-Analysis	Bryan C. H. Ang, MBBS, FAMS, FRCOphth
Surgical Outcome Comparison of Open Conjunctival Ab Externo Xen Gel Stent Implantation Versus Trabeculectomy in Primary Open-Angle Glaucoma	Serina Applebaum
Phase 3 Double-Masked, Parallel, Evaluation of TC-002 (Latanoprost Ophthalmic Solution) in Patients With Open-Angle Glaucoma or Ocular Hypertension	Jason Bacharach, MD
Ab-Interno Canaloplasty in Primary Angle-Closure Spectrum	Brayden Barrientez, MD
Prospective Retinal and Optic Nerve Vitrectomy Evaluation (PROVE) Study: Five-Year Findings	Zachary Bergman, MD, MPH
Investigating the Consistency in Outcomes of Ab-Interno Canaloplasty as a Standalone Procedure	J. Christian Berry, MD
Visual Outcomes of the ACTIVEFOCUS Multifocal and ACTIVEFOCUS Toric Lens in Patients With Ocular Hypertension, Anatomically Narrow Angles, and Mild to Moderate Glaucoma	Siddharth Bhargava, MD
Canaloplasty and Trabeculotomy in Pseudophakic Eyes With Primary Open-Angle Glaucoma (POAG): Two-Year Outcomes From the ROMEO Study	Anita Campbell, MD
Glaucoma Medication Use in Patients With a Moderate Glaucoma Severity After Receiving Minimally Invasive Glaucoma Surgery: An Academy IRIS® Registry Analysis	Louis Cantor, MD
Inflammatory Risk Factors and Normal-Tension Glaucoma	Clara Castillejo Becerra
Timing of Intraocular Pressure Measurements for Patients With Primary Open-Angle Glaucoma and/or Ocular Hypertension Treated With Prostaglandin Analogs: An Academy IRIS® Registry Analysis	Robert T. Chang, MD
Classification of Primary Angle Closure Disease by Hierarchical Cluster Analysis of Ocular Biometrics in the Dark and Light	Austin Cho
A Pilot Study to Evaluate a Novel Contact Lens Intraocular Pressure Measuring System	Pinakin Davey, OD, PhD
Needle Goniotomy Associated With Intraocular Pressure Reduction Compared to Phacoemulsification Alone	Eva Devience, MD
Comparison of Outcomes at Six Months Between Phacoemulsification Combined With Trabecular Microbypass Stent Alone or in Combination With Canaloplasty in Primary Open-Angle Glaucoma	Anna Dickinson, BA
Clinical Outcomes of MicroPulse Transscleral Laser Therapy: A Prospective Cohort Study	Syril Dorairaj, MD
Comparison Between Ab-Interno and Ab-Externo Placement of XEN Glaucoma Stent in Patients With Open-Angle Glaucoma	Adam Dossey, MD
Proprioception and Hand Function in Aging: Implications for Successful Eye Drop Instillation	Andrew Droste, MD, MS
Ocular Surface Disease in Childhood Glaucoma	Abdelrahman M. Elhusseiny, MD, MSc
Impact of Socioeconomic Factors on the Outcomes of Childhood Glaucoma	Abdelrahman M. Elhusseiny, MD, MSc
The XEN Gel Stent: Can Intraoperative Steroid Administration Improve Our Outcomes? A Retrospective Review	Hayley Favre, MD

Clinical Outcomes of PRESERFLO Microshunt Procedure With Mitomycin C Alone Versus With Mitomycin C and Bevacizumab	Inas Gadelkarim, MD, FRCOphth, FRCS
Trabecular Micro-Bypass +/- Precision Goniotomy to Potentiate Aqueous Outflow and Reduce Intraocular Pressure in Glaucoma	Mark Gallardo, MD
Pattern Electroretinogram in Ocular Hypertension, Glaucoma Suspect, and Early Manifest Glaucoma Eyes: A Systematic Review and Meta-Analysis	Gabriele Gallo Afflitto, MD
High-Level Visual Impairments in Glaucoma and Their Impact on Quality of Life	Deepti Ghate, MD
Safety and Efficacy of Xen Gel Stent Versus Trabeculectomy and Tube Shunt Surgeries in Patients 85 and Older: A Retrospective Study	Shahin Hallaj, MD
Ophthalmologic and Optometric Utilization of Office-Based Laser Procedures: A CMS Medicare Analysis	Ben Harvey, MD
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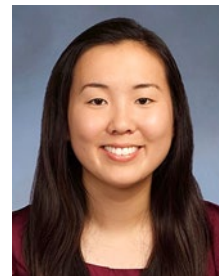
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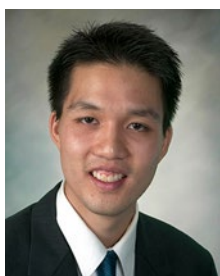
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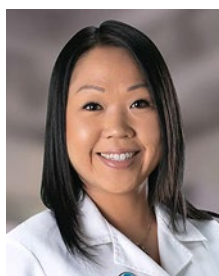
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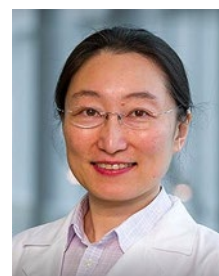
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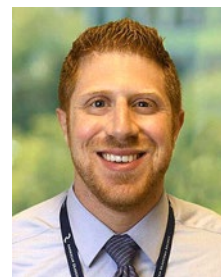
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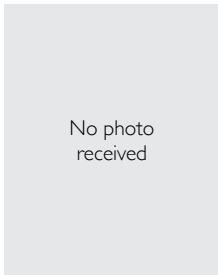
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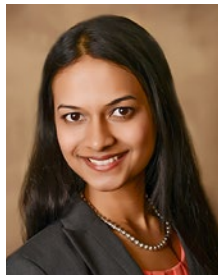
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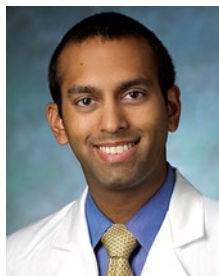
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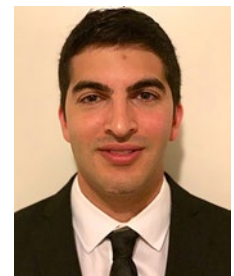
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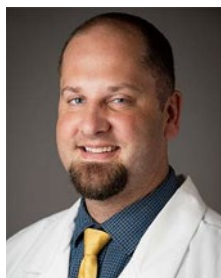
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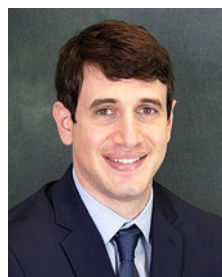
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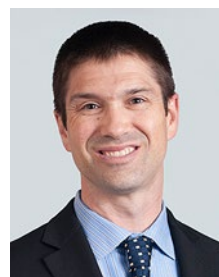
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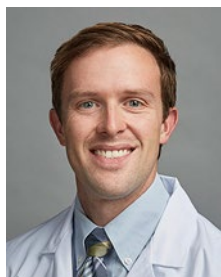
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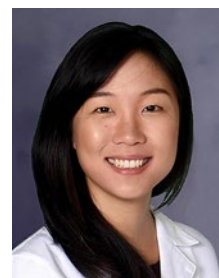
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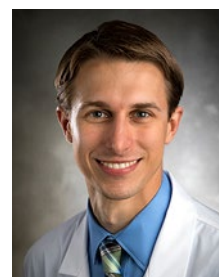
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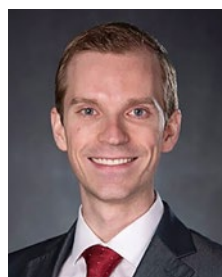
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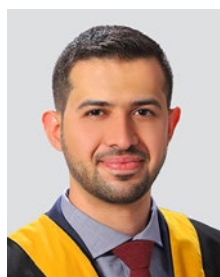
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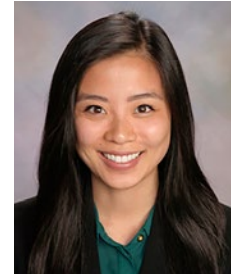
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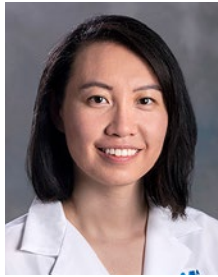
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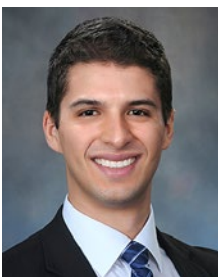
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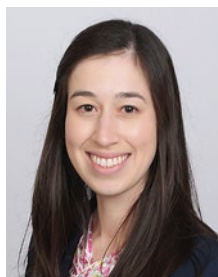
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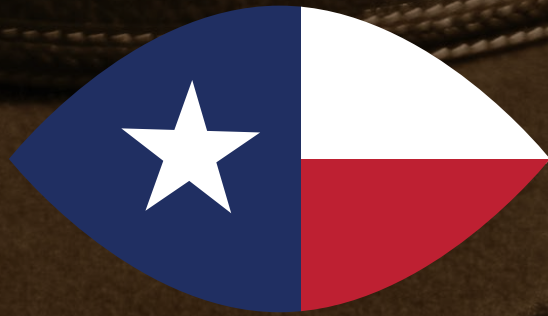
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