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One Hundred and Sixtieth Annual Meeting

PUBLISHED FOR THE AMERICAN OPHTHALMOLOGICAL SOCIETY

THE LODGE AT TORREY PINES
LA JOLLA, CALIFORNIA
2024

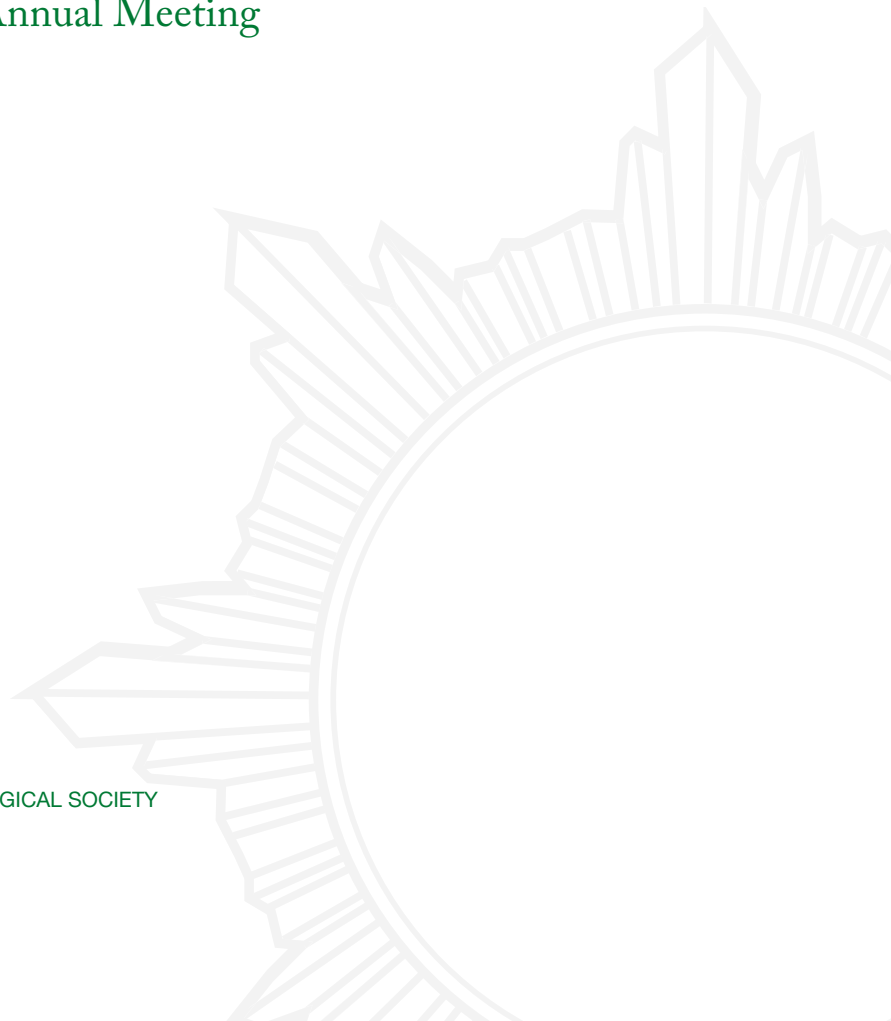


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May 16-18, 2024

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<i>Arnold, Anthony (2013)</i>	<i>Eagle Jr., Ralph (1988)</i>	<i>Karp, Carol (2019)</i>	<i>Nork, T. Michael (2000)</i>
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<i>Busin, Massimo (2014)</i>	<i>Friedman, Alan (1984)</i>	<i>Lam, Byron (2023)</i>	<i>Rosa, Robert (2022)</i>
<i>Budenz, Donald (2008)</i>	<i>Galor, Anat (2017)</i>	<i>Lawrence, Mary (2004)</i>	<i>Rosen, Richard (2019)</i>
<i>Burgoyne, Claude (2023)</i>	<i>Gamm, David (2019)</i>	<i>Leffler, Christopher (2021)</i>	<i>Rush, Ryan (2022)</i>
<i>Cameron, J. Douglas (2014)</i>	<i>Gardner, Thomas (1995)</i>	<i>Levin, Alex (2014)</i>	<i>Sadda, Srinivas (2020)</i>
<i>Cantor, Louis (2001)</i>	<i>Gedde, Steven (2021)</i>	<i>Levin, Leonard (2007)</i>	<i>Sadun, Alfredo (1998)</i>
<i>Caprioli, Joseph (1994)</i>	<i>Gelender, Henry (2006)</i>	<i>Lietman, Thomas (2020)</i>	<i>Sahel, José-Alain (2021)</i>
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<i>Chan, Clement (2014)</i>	<i>Goldberg, Robert (2011)</i>	<i>Lim, Michelle (2020)</i>	<i>Sarraf, David (2014)</i>
<i>Chan, Paul (2015)</i>	<i>Golnik, Karl (2013)</i>	<i>Lin, Shan (2016)</i>	<i>Schanzlin, David (1999)</i>
<i>Chang, Ta Chen Peter (2022)</i>	<i>Gragoudas, Evangelos (1998)</i>	<i>Lisch, Walter (2016)</i>	<i>Schein, Oliver (2000)</i>
<i>Char, Devron (1988)</i>	<i>Grand, M. Gilbert (2003)</i>	<i>Ludwig, Irene (1999)</i>	<i>Schmidt-Erfurth, Ursula (2020)</i>
<i>Chen, John (2023)</i>	<i>Gross, Ronald (1999)</i>	<i>Lueder, Gregg (2012)</i>	<i>Schubert, Hermann (2005)</i>
<i>Chen, Teresa (2009)</i>	<i>Grossniklaus, Hans (1998)</i>	<i>Macasai, Marion (2008)</i>	<i>Schuman, Joel (2008)</i>
<i>Chew, Emily (2005)</i>	<i>Gupta, Neeru (2019)</i>	<i>Manche, Edward (2011)</i>	<i>Schwab, Ivan (1999)</i>
<i>Chiang, Michael (2013)</i>	<i>Hainsworth, Dean (2020)</i>	<i>Mancini, Ronald (2023)</i>	<i>Schwartz, Daniel (2003)</i>
<i>Chodosh, James (2006)</i>	<i>Haller, Julia (1996)</i>	<i>Mannis, Mark (2000)</i>	<i>Scott, Ingrid (2022)</i>
<i>Chow, Alan (2010)</i>	<i>Hanneken, Anne (2017)</i>	<i>Mansberger, Steven (2013)</i>	<i>Sears, Jonathan (2013)</i>
<i>Cioffi, George (2005)</i>	<i>Harbour, James (2019)</i>	<i>McCannel, Colin (2017)</i>	<i>Sebag, Jerry (2005)</i>
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<i>Coats, David (2005)</i>	<i>Hersh, Peter (2005)</i>	<i>McDonald, Marguerite (2005)</i>	<i>Sen, Nida (2017)</i>
<i>Coleman, Anne (2007)</i>	<i>Holland, Gary (2007)</i>	<i>McLeod, Stephen (2006)</i>	<i>Sheth, Bhavna (2022)</i>
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Singer, Michael (2023)
Singh, Arun (2022)
Skuta, Gregory (2022)
Slakter, Jason (2015)
Sobrin, Lucia (2021)
Souied, Eric (2020)
Spaide, Richard (2019)
Stager Jr., David (2013)
Stamper, Robert (1984)
Stein, Joshua (2013)
Stewart, Michael (2019)

Stone, Edwin (2003)
Stout, Timothy (2006)
Suh, Donny (2021)
Tao, Jeremiah (2021)
Terry, Mark (2007)
Thompson, John (2003)
Topouzis, Fotis (2019)
Traboulsi, Elias (2004)
Traverso, Carlo (2017)
Tsai, James (2008)
Tsang, Stephen (2014)
Tse, David (2005)

Tyschen, R. Lawrence (2007)
Vajaranant, Thasarat (2019)
VanderVeen, Deborah (2022)
Van Gelder, Russell (2021)
Van Kuijk, Fredericus (2017)
Van Meter, Woodford (1996)
Volpe, Nicholas (2015)
Wallace, David (2007)
Walton, David (1979)
Waring, IV, George (2021)
Weakley Jr., David (1999)
Weinreb, Robert (2001)

Weisenthal, Robert (2021)
Weiss, Jayne (2007)
Wiggs, Janey (2014)
Wilson, David (2002)
Wilson, M. Roy (2002)
Wilson Jr., M. Edward (2004)
Wladis, Edward (2019)
Wong, Tien (2019)
Yoon, Michael (2024)
Young, Terri (2004)
Zacks, David (2009)
Zarbin, Marco (2003)

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Albert, Daniel (1979)
Alfonso, Eduardo (2008)
Anderson, Douglas (1981)
Anderson Jr., W. Banks (1968)
Asbell, Penny (1999)
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Berler, David (1989)
Biglan, Albert (1990)
Black, Bradley (2006)
Blair, Norman (2000)
Bourne, William (1983)
Bronson, Nathaniel (1972)
Brown, Gary (1999)
Bullock, John (1983)
Burton, Thomas (1982)
Carr, Ronald (1974)
Caldwell, Delmar (1997)
Chan, Chi-Chao (2003)
Clarkson, John (1992)
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Coleman, D. Jackson (1986)
Cooper, William (1985)
Crawford, J. Brooks (1980)
Darrell, Richard (1981)
Dayton, Glenn (1977)
Donshik, Peter (1994)
Durrie, Daniel (2006)
Ellis, Phillip (1971)
Erie, Jay (2003)
Farris, R. Linsy (1985)
Federman, Jay (1982)
Feldon, Steven (2004)
Feman, Stephen (1994)
Flach, Allan (1998)
Flanagan, Joseph (1980)
Forbes, Max (1974)
Forster, Richard (1992)
Foster, C. Stephen (1986)
France, Thomas (1984)

Frank, Robert (1998)
Fraunfelder, Frederick (1976)
Gaasterland, Douglas (1986)
Godfrey, William (1987)
Goldbaum, Michael (2005)
Goldberg, Morton (1978)
Good, William (2001)
Gottsch, John (1996)
Gutman, Froncie (1979)
Guyton, David (1986)
Hagler, William (1980)
Han, Dennis (2004)
Harris, Gerald (1993)
Heckenlively, John (1987)
Helveston, Eugene (1980)
Holland, Edward (1996)
Huang, Andrew (2007)
Hull, David (1990)
Hyndiuk, Robert (1981)
Iliff, W. Jackson (1985)
Ing, Malcolm (1981)
Irvine, Alexander (1980)
Jabs, Douglas (1995)
Jampol, Lee (1987)
Jarrett, William (1981)
Jones, Dan (1980)
Kass, Michael (1989)
Kaufman, Paul (1990)
Kelley, James (1983)
Kenyon, Kenneth (1985)
Kinyoun, James (2008)
Klein, Barbara (1993)
Kreiger, Allan (1991)
Laibson, Peter (1976)
Lakhanpal, Vinod (1993)
Landers III, Maurice (1978)
Lawwill, Theodore (1982)
Lemp, Michael (1989)
L'Esperance Jr., Francis (1968)
Lewis, Richard Alan (1989)

Lichter, Paul (1976)
Liesegang, Thomas (1988)
Lindstrom, Richard (1990)
Little, Hunter (1976)
Liu, Donald (2005)
Manchester, Jr., P. Thomas (1970)
Mauensee, Irene (1981)
Mazow, Malcolm (1987)
McCulley, James (1990)
McMeel, J. Wallace (1971)
Meredith, Travis (1993)
Mets, Marilyn (1999)
Metz, Henry (1983)
Meyer, Roger (1986)
Meyers, Sanford (1994)
Minckler, Donald (1986)
Mindel, Joel (1986)
Miranda, Manuel (1979)
Mitchell, Paul (1998)
Nelson, J. Daniel (1995)
Nirankari, Verinder (1992)
O'Neill, John (1998)
Parrish II, Richard (1996)
Payne, John (1980)
Pollard, Zane (1997)
Pulido, Jose (1996)
Raab, Edward (1982)
Rao, Narsing (1990)
Ravin, James (2008)
Rich, Larry (1999)
Richards, Richard (1966)
Ritch, Robert (1994)
Robertson, Dennis (1978)
Robin, Alan (1989)
Rogers, Gary (2003)
Runge, Paul (2000)
Schaefer, Daniel (2007)
Schocket, Stanley (1986)
Schultz, Richard (1971)
Sears, Marvin (1973)

Sergott, Robert (1991)
Sherwood, Mark (2006)
Shields, Jerry (1981)
Shields, M. Bruce (1983)
Sieving, Paul (1993)
Simon, John (2007)
Small, Kent (1998)
Sommer, Alfred (1983)
Spaeth, George (1975)
Spencer, Rand (2006)
Spivey, Bruce (1976)
Srinivasan, B. Dobli (1982)
Stager Sr., David (1996)
Stark, Walter (1980)
Straatsma, Bradley (1968)
Sugar, Alan (1989)
Taylor, Daniel (1972)
Taylor, Hugh (1989)
Townsend, William (1991)
Tso, Mark (1987)
Van Buskirk, E. Michael (1988)
Van Newkirk, Mylan (1997)
Veronneau-Troutman, Suzanne (1978)
Vine, Andrew (2000)
Waller, Robert (1982)
Watzke, Robert (1968)
Wilensky, Jacob (1991)
Wilhelmus, Kirk (2000)
Wilkinson, Charles (1981)
Wilson, R. Sloan (1983)
Wilson, Steven (2002)
Wong, Vernon (1972)
Woog, John (2007)
Yannuzzi, Lawrence (1986)
Yanoff, Myron (1975)
Yeatts, R. Patrick (2005)
Younge, Brian (1984)

MINUTES OF THE PROCEEDINGS

ONE HUNDRED AND SIXTIETH ANNUAL MEETING MAY 16-18, 2024

THE ONE HUNDRED AND SIXTIETH ANNUAL MEETING OF THE AMERICAN OPHTHALMOLOGICAL SOCIETY (AOS) WAS HELD AT THE LODGE AT TORREY PINES IN LA JOLLA, CALIFORNIA.

On May 16, 2024, Thursday, President **Timothy W. Olsen, MD** called the opening session to order. The program began with the following Thursday sessions.

SCIENTIFIC PAPER SESSION I: THURSDAY, MAY 16, 2024

1. Aravind Pseudoexfoliation Study: 10 Year Post-Operative Results
Alan Robin, Aravind Haripriya, Madhu Shekar, Chandrasekaran Shivakumar, Rengaraj Venkaatesh, Mohammed Sithiq Uduman, Ravilla D. Ravindran
2. Therapeutic Potential of the Neuropeptide alpha-Melanocyte Stimulating Hormone (α -MSH) in Fuchs Dystrophy
Reza Dana, Francesca Kahale, Hamid Alemi, Amirreza Naderi, Neha Deshpande, Seokjoo Lee, Thomas Dohlman, Jia Yin, **Ula Jurkunas**
3. Detection of Ocular Surface Squamous Neoplasia Using Artificial Intelligence with High-Resolution Anterior Segment Optical Coherence Tomography
Carol Karp, Jason Greenfield, Rafael Scherer, Diego Alba, Sofia De Arrigunaga, Osmel Alvarez, Sotiria Palioura, Ghada Albayyat, Afshan Nanji, Douglas Da Costa, William Herskowitz, Michael Antonietti
4. Application of a Deep Learning System to Detect Papilledema on Nonmydriatic Ocular Fundus Photographs in an Emergency Department
Valerie Biousse, Raymond P. Najjar, Zhiqun Tang, Mung Yan Lin, David W. Wright, Matthew T. Keady, **Tien Y. Wong**, Beau B. Bruce, Dan Milea, Nancy J. Newman, BONSAI Study Group
5. Visual Outcomes Following Plasma Exchange for Optic Neuritis: An International Multicenter Retrospective Analysis of 395 Optic Neuritis Attacks
John Chen, Sean Pittock, Elias Sotirchos, **Anthony Arnold**, Laura Bonelli, Heather Moss, Helen Danesh-Meyer, Romain Deschamps, Bertrand Audoin, Romain Marignier

6. Blindness from the LHON mtDNA mutation 3460A>G starts with ND1 trapping of COQ10 and excessive ROS
Alfredo Sadun, Jack Fuller, Stephen Barnes, Lorenzo Sadun, Pujan Ajmera, Anatassia Alexandrova

KNAPP SYMPOSIUM: TECHNOLOGY'S IMPACT ON OPHTHALMOLOGY: THE FUTURE IS NOW: FRIDAY, MAY 17, 2024

1. Introduction – **Jennifer I. Lim, MD**
2. Robotic Surgery – **Jean-Pierre Hubschman, MD**
3. AI Diagnostics – **Aaron Y. Lee, MD**
4. Innovative Therapeutics and Cell-Based Therapy – **Mark S. Humayun, MD, PhD**
5. New Technology in the Treatment of Amblyopia and Strabismus – **Donny W. Suh, MD, FAAP, MBA, FACS**
6. New Technology in Oculoplastic and Reconstructive Surgery – **Tamara R. Fountain, MD**
7. Current State of Gene Therapy in Ophthalmology – **Elias I. Traboulsi, MD, MEd**



Dr. Timothy Olsen & his wife Virginia

SCIENTIFIC PAPER SESSION II:

FRIDAY, MAY 17, 2024

1. Screening by Glaucoma Polygenic Risk Score to Identify Primary Open-Angle Glaucoma in Two Biobanks: An Interim Report
Janey Wiggs, Hetince Zhao, Nazlee Zebardast, Rachel Lee, Kanza Aziz, David Friedman, Thi Ha Vy, Ron Do, Ayellet Segre, **Louis Pasquale**
2. Prediction of Functional Glaucoma Progression from Baseline Clinical and Structural Data with Deep Learning
Kouros Nouri-Mahdavi, Vahid Mohammadzadeh, Sean Wu, Sajad Besharati, Mahsah Rafiee, Jane Zou, Yasamin Banaei, Arthur Martinyan, **Joseph Caprioli**, Fabien Scalzo
3. Non-contact Direct Selective Laser Trabeculoplasty (DSLT) in Open Angle Glaucoma. A Multicentre, Randomised, Controlled Comparative Study versus Selective Laser Trabeculoplasty (SLT)
Carlo Traverso, Gus Gazzard, Augusto Azuara Blanco, Nathan Congdon, **Thomas Samuelson**, Michael Belkin
4. The Updated 2024 Protocol for Reviving In Vivo-like ERG A- and B-waves in Postmortem Human Organ Donor Eyes
Anne Hanneken, Thomas Neikirk, Lisa Stocks, Satchin Panda, Frans Vinberg
5. OCT Split-Spectrum Amplitude-Decorrelation Optoretinography
David Huang, Mark Pennesi, Steven Bailey, Nida Wongchaisuwat, Siyu Chen
6. What's New at the National Eye Institute in 2024?
Michael F. Chiang, MD, MA

EXECUTIVE SESSION: SATURDAY, MAY 18, 2024

MARILYN T. MILLER LECTURE:

SATURDAY, MAY 18, 2024

Equity and Equal Opportunity: Finding Balance in Ophthalmology
George B. Bartley, MD

SATURDAY SYMPOSIUM: PARALLEL POPULATIONS – INSTITUTIONALIZING INEQUITY?

1. Introduction – **Preston H. Blomquist, MD**
2. Effect of SCOTUS Decision on Affirmative Action and State DEI Prohibitions on Higher Education – **OiYan A. Poon, PhD, MEd**
3. African Heritage and Glaucoma: A Deeper Dive – **Louis R. Pasquale, MD**
4. Risk of AI Institutionalizing Inequity and Bias – **Dimitri T. Azar, MD, MBA**
5. Risks of Genomic Editing and Generational Genomic Advantage – **Lainie F. Ross, MD, PhD**



National Eye Institute Director Dr. Michael Chiang

SCIENTIFIC PAPER SESSION III:

SATURDAY, MAY 18, 2024

1. Enhanced Phenotype Identification Of Common Ocular Diseases In Real-World Datasets
Joshua Stein, Hong Su An, Chris Andrews, Suzann Pershing, Tushar Mungle, Amanda Bicket, Julie Rosenthal, Amy Zhang, Wei-Shin Lee, Cassie Ludwig, Bethlehem Mekonnen, Tina Hernandex-Boussard
2. Differential Artery-Vein Analysis Improves OCTA Performance for Artificial Intelligence Classification of Diabetic Retinopathy
Jennifer Lim, Mansour Abtahi, David Lee, Behrouz Ebrahimi, Albert Dadzie, Mojtaba Rahimi, Yi-Ting Hsieh, Michael Heiferman, Yao Xincheng
3. Month 60 Imaging Findings and Relationship to Treatment Outcomes following Anti-VEGF Therapy for Macular Edema due to Central or Hemi Retinal Vein Occlusion
Michael Ip, **Ingrid Scott**, Paul Van Veldhuisen, Neal Oden, Barbara Blodi
4. Protein Biomarkers in the Aqueous Humor Liquid Biopsy Exhibit Diagnostic Potential for Uveal Melanoma
Jesse Berry, Atrey Khoche, Chen-Ching Peng, Benjamin XU, Bibiana Reiser, Liya Xu
5. The Effect of Modifying AIRE in Melanoma in Vitro
Jose Pulido, Richard Vile

AOS MEDAL PRESENTATION, MAY 18, 2024

PAPER AND POSTER ABSTRACTS

PAPER ABSTRACTS

ARAVIND PSEUDOEXFOLIATION STUDY: 10 YEAR POST- OPERATIVE RESULTS

Alan Robin*, Aravind Haripriya, Madhu Shekar, Chandrasekaran Shivakumar, Rengaraj Venkaatesh, Mohammed Sithiq Uduman, Ravilla D. Ravindran

THERAPEUTIC POTENTIAL OF THE NEUROPEPTIDE ALPHA-MELANOCYTE STIMULATING HORMONE (α -MSH) IN FUCHS DYSTROPHY

Reza Dana*, Francesca Kahale, Hamid Alemi, Amirreza Naderi, Neha Deshpande, Seokjoo Lee, Thomas Dohlman, Jia Yin, **Ula Jurkunas**

DETECTION OF OCULAR SURFACE SQUAMOUS NEOPLASIA USING ARTIFICIAL INTELLIGENCE WITH HIGH-RESOLUTION ANTERIOR SEGMENT OPTICAL COHERENCE TOMOGRAPHY

Carol Karp*, Jason Greenfield, Rafael Scherer, Diego Alba, Sofia De Arrigunaga, Osmel Alvarez, Sotiria Palioura, Ghada Albayyat, Afshan Nanji, Douglas Da Costa, William Herskowitz, Michael Antonietti

APPLICATION OF A DEEP LEARNING SYSTEM TO DETECT PAPILLEDEMA ON NONMYDRIATIC OCULAR FUNDUS PHOTOGRAPHS IN AN EMERGENCY DEPARTMENT

Valerie Biousse*, Raymond P. Najjar, Zhiquan Tang, Mung Yan Lin, David W. Wright, Matthew T. Keady, **Tien Y. Wong**, Beau B. Bruce, Dan Milea, Nancy J. Newman, BONSAI Study Group

VISUAL OUTCOMES FOLLOWING PLASMA EXCHANGE FOR OPTIC NEURITIS: AN INTERNATIONAL MULTICENTER RETROSPECTIVE ANALYSIS OF 395 OPTIC NEURITIS ATTACKS

John Chen*, Sean Pittock, Elias Sotirchos, **Anthony Arnold**, Laura Bonelli, Heather Moss, Helen Danesh-Meyer, Romain Deschamps, Bertrand Audoin, Romain Marignier

BLINDNESS FROM THE LHON MTDNA MUTATION 3460A>G STARTS WITH ND1 TRAPPING OF COQ10 AND EXCESSIVE ROS

Alfredo Sadun*, Jack Fuller, Stephen Barnes, Lorenzo Sadun, Pujan Ajmera, Anatassia Alexandrova

SCREENING BY GLAUCOMA POLYGENIC RISK SCORE TO IDENTIFY PRIMARY OPEN-ANGLE GLAUCOMA IN TWO BIOBANKS: AN INTERIM REPORT

Janey Wiggs*, Hetince Zhao, Nazlee Zebardast, Rachel Lee, Kanza Aziz, David Friedman, Thi Ha Vy, Ron Do, Ayellet Segre, **Louis Pasquale**

PREDICTION OF FUNCTIONAL GLAUCOMA PROGRESSION FROM BASELINE CLINICAL AND STRUCTURAL DATA WITH DEEP LEARNING

Kouros Nouri-Mahdavi*, Vahid Mohammadzadeh, Sean Wu, Sajad Besharati, Mahsa Rafiee, Jane Zou, Yasamin Banaei, Arthur Martinyan, **Joseph Caprioli**, Fabien Scalzo

NON-CONTACT DIRECT SELECTIVE LASER TRABECULOPLASTY (DSLT) IN OPEN ANGLE GLAUCOMA. A MULTICENTRE, RANDOMISED, CONTROLLED COMPARATIVE STUDY VERSUS SELECTIVE LASER TRABECULOPLASTY (SLT)

Carlo Traverso*, Gus Gazzard, Augusto Azuara Blanco, Nathan Congdon, **Thomas Samuelson**, Michael Belkin

THE UPDATED 2024 PROTOCOL FOR REVIVING IN VIVO-LIKE ERG A- AND B-WAVES IN POSTMORTEM HUMAN ORGAN DONOR EYES

Anne Hanneken*, Thomas Neikirk, Lisa Stocks, Satchin Panda, Frans Vinberg

OCT SPLIT-SPECTRUM AMPLITUDE-DECORRELATION OPTORETINOGRAPHY

David Huang*, Mark Pennesi, Steven Bailey, Nida Wongchaisuwat, Siyu Chen

ENHANCED PHENOTYPE IDENTIFICATION OF COMMON OCULAR DISEASES IN REAL-WORLD DATASETS

Joshua Stein*, Hong Su An, Chris Andrews, Suzann Pershing, Tushar Mungle, Amanda Bicket, Julie Rosenthal, Amy Zhang, Wei-Shin Lee, Cassie Ludwing, Bethlehem Mekonnen, Tina Hernandez-Boussard

DIFFERENTIAL ARTERY-VEIN ANALYSIS IMPROVES OCTA PERFORMANCE FOR ARTIFICIAL INTELLIGENCE CLASSIFICATION OF DIABETIC RETINOPATHY

Jennifer Lim*, Mansour Abtahi, David Lee, Behrouz Ebrahimi, Albert Dadzie, Mojtaba Rahimi, Yi-Ting Hsieh, Michael Heiferman, Yao Xincheng

MONTH 60 IMAGING FINDINGS AND RELATIONSHIP TO TREATMENT OUTCOMES FOLLOWING ANTI-VEGF THERAPY FOR MACULAR EDEMA DUE TO CENTRAL OR HEMI RETINAL VEIN OCCLUSION

Michael Ip*, **Ingrid Scott**, Paul Van Veldhuisen, Neal Oden, Barbara Blodi

PROTEIN BIOMARKERS IN THE AQUEOUS HUMOR LIQUID BIOPSY EXHIBIT DIAGNOSTIC POTENTIAL FOR UVEAL MELANOMA

Jesse Berry*, Atrey Khoche, Chen-Ching Peng, Benjamin XU, Bibiana Reiser, Liya Xu

THE EFFECT OF MODIFYING AIRE IN MELANOMA IN VITRO

Jose Pulido*, Richard Vile

POSTER ABSTRACTS

OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY (OCTA) ANALYSIS OF ISCHEMIC VS NON-ISCHEMIC OPTIC DISC EDEMA

Anthony Arnold*, Giulia Corradetti, Federico Corvi, **Srinivas Sadda**

DIGITAL HISTOLOGY OF RETINAL MICROANEURYSMS: CHARACTERISTICS AND CLINICAL RELEVANCE IN DIABETIC RETINOPATHY

Francesco Bandello*, Alessandro Arrigo

CHARITY CARE IN OPHTHALMOLOGY, 2024

David Browning*, Sally Ong, **John Clarkson**, Craig Greven, Harrison Huang

COMBINED TWO-PIECE MUSHROOM PENETRATING KERATOPLASTY AND “PULL THROUGH” TECHNIQUE: A NOVEL LAMELLAR APPROACH TO FACILITATE SURGERY FOR PETERS ANOMALY IN INFANTS

Massimo Busin*, Angeli Christy Yu

FACTORS ASSOCIATED WITH SURGICAL PTOSIS REPAIR AFTER GLAUCOMA AND CATARACT SURGERY IN THE CALIFORNIA MEDICARE POPULATION

Janet Coleman-Belin*, Victoria Tseng, Ken Kitayama, **Anne Coleman**, **Robert Goldberg**

DEEPER DIVES INTO GLAUCOMA GWAS HITS: WHICH VARIANTS IN EACH LOCUS CONFER RISK AND HOW DO THEY DO IT?

John Fingert*, Benjamin Roos, Floyd Evans, Todd Scheetz

EXTENDED DEVELOPMENTAL ANGIOGENESIS AFTER ANTI-VEGF TREATMENT IN ROP INDEPENDENT OF REDUCTION OF PLUS DISEASE

Lydia Sauer, Melissa Chandler, **M. Elizabeth Hartnett***

THICK BRIDGING VESSELS SPANNING PERIPHERAL AVASCULAR RETINA IN FAMILIAL EXUDATIVE VITREORETINOPATHY: A NOVEL FLUORESCEIN ANGIOGRAPHY FINDING

D. Wade Redick, **G. Baker Hubbard***

OUTCOMES OF A BRIEF PRISM ADAPTATION TEST FOR CHILDREN WITH DISTANCE NEAR DISPARITY ESOTROPIA UNDERGOING STRABISMUS SURGERY

Mariam Hashemi, Shruthi Velrajan, Lauren Ditta, **Natalie Kerr***

EVALUATION OF SARCOPENIA IN BLEPHAROPTOSIS USING ORBITAL MAGNETIC RESONANCE IMAGING

Kendall Hughes*, Jonathan Nguyen, Andres Rodriguez, Kamand Khalaj, Alice Chuang, Roy Riascos-Castaneda, Ying Chen, **Timothy McCulley**

GENETICALLY DETERMINED EYE COLOUR INFLUENCES PROGNOSTIC FACTORS IN UVEAL MELANOMA

Maria Chiara Gelmi, Laurien Houtzagers, Annemijn Wierenga, Rick de Leeuw, Peter de Knijff, **Martine Jager***

PATHOGENIC MECHANISMS OF IMMUNE CHECKPOINT INHIBITOR (ICI)-ASSOCIATED CHOROIDAL AND RETINAL ADVERSE REACTIONS

Rachana Haliyur, **Susan Elner**, Therese Sassalos, Shilpa Kodati, **Mark Johnson***

INCISIONAL GLAUCOMA SURGERIES PERFORMED AT AMBULATORY SURGICAL CENTERS ARE ASSOCIATED WITH INCREASED RISK OF REOPERATION

Ken Kitayama*, Victoria Tseng, Fei Yu, **Anne Coleman**

OPERATIVE FIRE RISK AND SUPPLEMENTAL OXYGEN USE IN OCULOPLASTIC SURGERY

Mena Kozman*, Dean McCulley, Amelia McCulley, Dylan McCulley, Martha Meyers, **Timothy McCulley**, Ying Chen

HOW CHARLES KELMAN INVENTED PHACOEMULSIFICATION IN THE 1960S: A REAPPRAISAL

Christopher Leffler*, Stephen Schwartz

WEARABLE SENSOR TEMPERATURE DATA LOGGER RESPONSE RATES WHEN APPLIED TO SPECTACLES FOR MEASUREMENT OF SPECTACLE WEAR TIME

Joseph Miller*, Erin Harvey, Jenifer Martin

AHMED GLAUCOMA VALVE IN ANIRIDIA

Ahmed Abdou, **Peter Netland***

THE UTILITY OF AN AT-HOME VISION SCREENING KIT IN A PREDOMINANTLY NONENGLISH SPEAKING UNDERSERVED POPULATION

Michael Nguyen*, Timothy Do, Kara Her, Bryan Kuo, Kevin Chau, Madeleine Lu, **Michele Lim**

TOPOGRAPHIC ANALYSIS OF LOCAL OCT BIOMARKERS WHICH PREDICT PROGRESSION TO ATROPHY IN AGE-RELATED MACULAR DEGENERATION

Srinivas Sadda*

LIMITED VITRECTOMY SAFELY CURES VISION DEGRADING MYODESOPSIA FROM VITREOUS FLOATERS

J. Sebag*

CORNEAL SENSITIVITY IS INVERSELY CORRELATED WITH SEVERITY OF DIABETIC RETINOPATHY IN A PREDOMINANTLY UNDERREPRESENTED POPULATION

Michael Singer*, Preston O'Brien, Luke Mein, Andrea Olivera

DIFFERENCES IN ACCURACY BETWEEN STANDARD AUTOMATED PERIMETRY AND A DIGITAL VISUAL FIELD TEST WHEN CLASSIFYING DISEASE STATE

Allister McGuire, Luis de Sisternes, Diksha Goyal, **Dimitri Azar**, Supriyo Sinha*

CAN CHANGES IN MACULAR NEOVASCULARIZATION'S OCTA VASCULAR CHARACTERISTICS PREDICT EXUDATIVE ACTIVITY IN EYES WITH NEOVASCULAR AGE RELATED MACULAR DEGENERATION? THE ACTOR STUDY

Eric Souied*, Rocio Blanco Garavito, Donato Colantuano, Alexandra Miere

SUSTAINABILITY IN EYE CARE: FACTORS INFLUENCING SOLID WASTE GENERATION AND OPPORTUNITIES FOR CO-BENEFITS

Brooke Sherry, Shaina Shiwdin, Cassandra Thiel*, Yash Patil, Gerardo Elgezabal, Emma Pak, **Joel Schuman**, Christina Prescott

BALANCING NEUROPROTECTIVE AND NEUROTOXIC ASTROCYTE REACTIVITY IN OPTIC NEUROPATHIES

Anna Toth*, Evan Cameron, Michael Nahmou, **Jeffrey Goldberg**

PREDICTORS OF SURGICAL TREATMENT FOR NEOVASCULAR GLAUCOMA IN THE CALIFORNIA MEDICARE POPULATION

Victoria Tseng*, Ken Kitayama, Fei Yu, **Anne Coleman**

VISUAL DEFICITS DUE TO DIABETIC RETINAL DISEASE

Brian VanderBeek*, Yinxi Yu, **Joshua Stein**

OUTCOMES OF THE PARS PLANA APPROACH TO POSTERIOR CAPSULOTOMY AND ANTERIOR VITRECTOMY IN PEDIATRIC CATARACT SURGERY WITH IOL PLACEMENT

M. Edward Wilson*, Rupal Trivedi

REGISTERED MEMBERS OF THE ANNUAL MEETING

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New member Dr. Jesse Berry signing the AOS membership book

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 Marco A. Zarbin, MD, PhD Active Member

NAMED LECTURES

FREDERICK H. VERHOEFF LECTURERS

1961	DR. ARTHUR J. BEDELL	2003	DR. THADDEUS P. DRYJA <i>How Molecular Genetics is Lifting the Fog: The Etiology of Retinitis Pigmentosa</i>
1964	SIR STEWART DUKE-EDLER		
1969	DR. DAVID G. COGAN	2010	DR. ADRIAN GLASSER <i>Physiology of Accommodation and Pathogenesis of Presbyopia</i>
1971	DR. LORENZ E. ZIMMERMAN		
1973	DR. IRVING H. LEOPOLD	2013	DR. ALFRED SOMMER <i>Preventing Blindness & Child Mortality with Vitamin A: an AOS Odyssey</i>
1975	DR. ARTHUR GERARD DEVOE	2014	DR. TIMOTHY STOUT <i>The Rocky Road to Successful Human Gene Therapy</i>
1977	PROF. JULES FRANCOIS	2019	DR. MICHAEL TRESE <i>A New Approach to VEGF Driven Retinal Vascular Leakage in Inherited and Acquired Retinal Vascular Disease</i>
1979	DR. SAIICHI MISHIMA		
1983	DR. RICHARD W. YOUNG	2022	KRISTIN E. LAUTER <i>From Academia to Social Media: My Journey into Artificial Intelligence and Machine Learning</i>
1989	DR. FREDERICK C. BLODI		
1992	DR. FRANCIS I. COLLINS		
1993	DR. JORAM PIATIGORSKY		
1997	DR. GEOFFREY ARDEN		
2002	DR. PAUL SIEVING <i>How Many Photoreceptors Do We Need for Vision?</i>		

FREDERICK C. BLODI LECTURERS

2015	DR. TIMOTHY W. OLSEN (Inaugural) <i>The Age-related Macular Degeneration Complex: Linking Epidemiology and Histopathology Using the Minnesota Grading System</i>	2016	DR. ELIAS I. TRABOULSI <i>Zonules and Molecules: The Underlying Pathophysiology of Ectopia Lentis</i>
		2017	DR. JOSEPH CAPRIOLI <i>Retinal Ganglion Cell Rescue in Glaucoma</i>

MARILYN T. MILLER LECTURERS

2021	DR. ANTHONY FAUCI (Inaugural) <i>COVID-19 in 2021: Lessons Learned and Remaining Challenges</i>	2023	DR. JEAN BENNETT <i>Gene Therapy for Retinal Degenerations – Where Do We Stand Now?</i>
2022	DR. MICHAEL F. CHIANG <i>NEI: Past, Present, and Future</i>	2024	DR. GEORGE B. BARTLEY <i>Equity and Equal Opportunity: Finding Balance in Ophthalmology</i>

MEDAL RECIPIENTS

RECIPIENTS OF THE LUCIEN HOWE MEDAL

1922	DR. CARL KOLLER, New York, NY	1961.....	DR. FREDERICK C. CORDES, San Francisco, CA
1923	DR. ALEXANDER DUANE, New York, NY	1962.....	DR. FRANK B. WALSH, Baltimore, MD
1924	DR ERNEST FUCHS, Vienna, Austria	1963	DR. EDWIN B. DUNPHY, Boston, MA
1925	NO AWARD	1964	DR. WILLIAM L. BENEDICT, Rochester, MN
1926	DR. EDWARD JACKSON, Denver, CO	1965	DR. DAVID G. COGAN, Boston, MA
1927	MR. PRIESTLY SMITH, Birmingham, England	1966	DR. DOHRMANN K. PISCHEL, San Francisco, CA
1928	NO AWARD	1967	DR. PAUL A. CHANDLER, Boston, MA
1929	DR. THEODOR AXENFELD, Freiburg, Germany	1968	DR. WALTER MORTON GRANT, Boston, MA
1930	NO AWARD	1969	DR. A. EDWARD MAUMENEE, Baltimore, MD
1931	NO AWARD	1970	DR. PETER C. KRONFELD, Chicago, IL
1932	DR. F. H. VERHOEFF, Boston, MA	1971	DR. C. WILBUR RUCKER, Rochester, MN
1933	NO AWARD	1972	DR. WALTER S. ATKINSON, Watertown, NY
1934	DR. GEORGE E. DE SCHWEINITZ, Philadelphia, PA	1973	DR. GORDON M. BRUCE, Fort Lee, NJ
1935	NO AWARD	1974	DR. IRVING H. LEOPOLD, New York, NY
1936	SIR JOHN HERBERT PARSONS, London, England	1975	DR. MICHAEL J. HOGAN, San Francisco, CA
1937	DR. ARNOLD KNAPP, New York, NY	1976	DR. EDWARD W. D. NORTON, Miami, FL
1938	NO AWARD	1977	DR. KENNETH C. SWAN, Portland, OR
1939	NO AWARD	1978	DR. S. RODMAN IRVINE, Newport Beach, CA
1940	NO AWARD	1979	DR. FRANK W. NEWELL, Chicago, IL
1941	NO AWARD	1980	DR. FREDERICK C. BLODI, Iowa City, IA
1942	DR. E. V. L. BROWN, Chicago, IL	1981	DR. DAVID O. HARRINGTON, San Francisco, CA
1943	NO AWARD	1982	DR. ARTHUR GERARD DEVOE, New York, NY
1944	NO AWARD	1983	DR. J. DONALD M. GASS, Miami, FL
1945	DR. WALTER B. LANCASTER, Boston, MA	1984	DR. HAROLD G. SCHEIE, Philadelphia, PA
1946	SIR STEWART DUKE-ELDER, London, England	1985	DR. ROBERT N. SHAFFER, San Francisco, CA
1947	DR. LAWRENCE T. POST, St Louis, MO	1986	DR. ROBERT W. HOLLENHORST, Rochester, MN
1948	DR. WILLIAM ZENTMAYER, Philadelphia, PA	1987	DR. DUPONT GUERRY III, Richmond, VA
1949	DR. PHILLIPS THYGESON, San Jose, CA	1988	DR. THOMAS D. DUANE, Philadelphia, PA
1950	DR. ALGERNON B. REESE, New York, NY	1989	DR. MARSHALL M. PARKS, Washington, DC
1951.....	DR. JONAS S. FRIEDENWALD, Baltimore, MD	1990	DR. DAVID SHOCH, Chicago, IL
1952	DR. FRANCIS H. ADLER, Philadelphia, PA	1991	DR. ARNALL PATZ, Baltimore, MD
1953	DR. ALAN C. WOODS, Baltimore, MD	1992	DR. BRADLEY R. STRAATSMA, Los Angeles, CA
1954	DR. JOHN H. DUNNINGTON, New York, NY	1993	DR. BRUCE E. SPIVEY, San Francisco, CA
1955	DR. ARTHUR J. BEDELL, Albany, NY	1994	DR. THOMAS P. KEARNS, Rochester, MN
1956	DR. BERNARD SAMUELS, New York, NY	1995	DR. WILLIAM H. SPENCER, San Francisco, CA
1957	DR. GEORGIANA DVORAK-THEOBALD, Oak Park, IL	1996	DR. ROBERT MACHEMER, Durham, NC
1958	DR. IDA C. MANN, Nedlands, Western Australia	1997	DR. W. RICHARD GREEN, Baltimore, MD
1959.....	DR. LUDWIG VON SALLMANN, Bethesda, MD	1998	DR. ALAN B. SCOTT, San Francisco, CA
1960.....	DR. DERRICK T. VAIL, Chicago, IL	1999	DR. LORENZ E. ZIMMERMAN, Washington, DC

2000 DR. WILLIAM S. TASMAN, Philadelphia, PA
 2001 DR. STANLEY M. TRUHLSEN, Omaha, NE
 2002 DR. CROWELL BEARD, San Jose, CA
 2003 DR. ALFRED SOMMER, Baltimore, MD
 2004 DR. ARTHUR JAMPOLSKY, Belvedere, CA
 2005 DR. STEPHEN J. RYAN, Los Angeles, CA
 2006 DR. MATTHEW D. DAVIS, Madison, WI
 2007 DR. DANIEL M. ALBERT, Madison, WI
 2008 DR. PAUL R. LICHTER, Ann Arbor, MI
 2009 DR. DENIS O'DAY, Nashville, TN

2010 DR. MARILYN T. MILLER, Chicago, IL
 2011 DR. ROBERT R. WALLER, Memphis, TN
 2012 DR. HUGH R. TAYLOR, Carlton, Australia
 2013 DR. DAN B. JONES, Bellaire, TX
 2014 DR. MORTON F. GOLDBERG, Baltimore, MD
 2015 DR. JOHN G. CLARKSON, Miami, FL
 2016 DR. SUSAN H. DAY, Chicago, IL
 2017 DR. GEORGE L. SPAETH, Philadelphia, PA
 2018 DR. JOAN MILLER, Winchester, MA
 2019 DR. JERRY A. SHIELDS, Philadelphia, PA

RECIPIENTS OF THE AOS MEDAL

2020..... NO AWARD
 2021..... DR. PETER R. LAIBSON, Philadelphia, PA
 2022..... DR. EMILY Y. CHEW, Bethesda, MD

2023..... DR. EVANGELOS S. GRAGOUDAS, Cambridge, MA
 2024..... DR. GEORGE B. BARTLEY, St. Simons Island, GA



2024 AOS Medalist Dr. George B. Bartley

2024 THESES PUBLISHED IN THE AJO

Nisha R. Acharya, MD, MS

OUTCOMES IN PATIENTS WITH VOGT-KOYANAGI-HARADA DISEASE FROM THE FIRST-LINE ANTIMETABOLITES FOR STEROID-SPARING TREATMENT UVEITIS TRIAL

Fatema F. Ghasia, MD

INTER-OCULAR FIXATION INSTABILITY OF AMBLYOPIA: RELATIONSHIP TO VISUAL ACUITY, STRABISMUS, NYSTAGMUS, STEREOPSIS, VERGENCE AND AGE

Rachel W. Kuchtey, MD, PhD

IN SEARCH OF MOUSE MODELS FOR EXFOLIATION SYNDROME

Ann-Marie Lobo-Chan, MD, MS

RISK FACTORS FOR THE DEVELOPMENT OF OCULAR COMPLICATIONS IN HERPES ZOSTER OPHTHALMICUS AND ZOSTER VACCINE UTILIZATION IN A LARGE, URBAN HEALTH SYSTEM

Mildred M.G. Olivier, MD, FACS

CONTRIBUTIONS AND LEGACIES OF SELECTED BLACK PIONEERS IN OPHTHALMOLOGY AND INSTITUTIONAL MILESTONES

Juliana Maria F. Sallum, MD, PhD

SCREENING FOR AUTISM SPECTRUM DISORDER IN CHILDREN AND ADOLESCENTS WITH LEBER'S CONGENITAL AMAUROSIS

Rafael L. Ufret-Vincenty, MD

NONREDUNDANT ROLE OF LEISHMANOLYSIN-LIKE (LMLN) ZINC-METALLOPEPTIDASE IN RETINAL HOMEOSTASIS

Michael K. Yoon, MD

AN EVIDENCE-BASED APPROACH TO DIAGNOSING PATIENTS PRESENTING WITH ORBITAL INFLAMMATORY SYNDROMES (AN AMERICAN OPHTHALMOLOGICAL SOCIETY THESIS)



REPORTS

REPORT FROM THE EXECUTIVE VICE PRESIDENT AND EDITOR

DAVID J. WILSON, MD

EXECUTIVE VICE PRESIDENT REPORT

Following the 2023 Annual Meeting the AOS Council met in Dallas on October 7, 2023. During the Council Meeting the Council presented lectures to the residents, fellows, and faculty members from the UT Southwestern Ophthalmology Program. The Council reviewed the comments from the 2023 Annual Meeting, and initiated conversations on future meeting sites and topics. In addition, the plans for the 2024 AOS Annual Meeting Program were discussed and finalized. The next Fall Council Meeting will be held in Washington, DC on November 2, 2024.

The AOS financials have returned to close to the level before the sharp decline associated with the COVID 19 pandemic, and the March 31, 2024 total fund balance is only slightly below the same date in 2023; this despite use of revenue from the funds to cover AOS expenses including \$250,000 for the Annual Meeting.

The AOS currently has 255 Active members and 146 Emeritus members. This year we have a robust number of candidates – 16.

The AOS continues with several programs to support activities in line with the AOS mission. The Annual Meeting Travel Grants are used to engage with young ophthalmologists to make them aware of the Society and gauge their interest and suitability for membership. The AOS provides funds to support the Heed Resident Retreat, The AAO/AUPO Minority Ophthalmology Mentoring Program, and has provided funds to support the AAO Museum of Ophthalmology. The AOS also teams with the ABO to present a symposium at the AAO Annual Meeting. This year's symposium is titled: What's Happening Now: Opportunities or Threats to Professionalism in Ophthalmology?



David J. Wilson, MD & Nancy Greene

EDITOR'S REPORT

This year there were 11 theses accepted by the AOS Thesis Committee. The acceptance of a candidate's thesis is the final step in the application process for the AOS. The accepted theses will be published in the special edition of the *American Journal of Ophthalmology*. This arrangement for publication of the theses, initially worked out by **Hans Grossniklaus** and **Richard Parrish** has proven to be an excellent avenue to provide perpetual exposure of these excellent works. We executed a multiple year renewal of the contract between the AOS and the AJO to continue this very valuable relationship.

REPORT FROM THE COUNCIL CHAIR

PRESTON H. BLOMQUIST, MD

The 160th Annual Meeting of the American Ophthalmological Society was held May 16 – 18, 2024, in La Jolla, California, at The Lodge at Torrey Pines. The venue and weather were welcoming throughout the meeting, allowing for the afternoon recreational events (golf and, for the first time, a pickleball tournament) and for hiking the adjacent Torrey Pines State Natural Reserve.

We welcomed our new members to the Society on the Thursday of the meeting. Following the 2023 Annual Meeting, six new member theses were approved. A reception welcoming the new members followed the first scientific paper session that day.

Friday morning's Hermann Knapp Symposium was titled, "Technology's Impact on Ophthalmology: The Future Is Now." Jean-Pierre Hubschman, MD spoke on robotic surgery, Aaron Y. Lee, MD on AI diagnostics, **Mark S. Humayan, MD, PhD** on innovative therapeutics and cell-based therapy, **Donny W. Suh, MD, FAAP, MBA, FACS** on new technology in the treatment of amblyopia and strabismus, **Tamara R. Fountain, MD** on new technology in oculoplastic and reconstructive surgery, and **Elias I. Traboulsi, MD, MEd** on the current state of gene therapy in ophthalmology. The morning concluded with poster and paper sessions.

Saturday saw **George B. Bartley, MD** give the Marilyn T. Miller Lecture, titled, "Equity and Equal Opportunity: Finding Balance in Ophthalmology." His lecture will be reproduced in an upcoming issue of the *American Journal of Ophthalmology*. The following symposium was titled, "Parallel Populations – Institutionalizing Inequity?" OiYan A. Poon, PhD, MEd spoke on the effect of the SCOTUS decision on affirmative action and state DEI prohibitions on higher education. **Louis R. Pasquale, MD** took a deeper dive into African heritage and glaucoma. **Dimitri T. Azar, MD, MBA** spoke on the risk of AI institutionalizing inequity and bias while Lanie F. Ross, MD, PhD talked on the risks of genomic editing and generational genomic advantage. Again, poster and paper sessions concluded our morning. Overall, 18 papers and 28 posters were presented during the meeting.

I want to recognize the work of the Committee on Programs, chaired by **Jennifer I. Lim, MD**, for putting together a fantastic scientific program. The quality and breadth of the work across all areas of ophthalmology was superb.

The Executive Session, which began on Saturday morning and reconvened at the evening's formal Gala Banquet, was capped off by presentation of the AOS Medal to **George B. Bartley, MD**, and the passing of the President's gavel from **Timothy W. Olsen, MD** to **Julia A. Haller, MD**.

AOS COUNCIL ACTIVITY

It has been my honor to serve with my fellow council members: **Emily Y. Chew, MD**, **David K. Wallace, MD, MPH**, **Mary Elizabeth Hartnett, MD**, and **Peter A. Netland, MD, PhD**. Along with President **Timothy W. Olsen, MD** and Executive Vice President and Editor for *Transactions of the AOS*, **David J. Wilson, MD**. The leadership team meets throughout the year to conduct the business of the society. A highlight for me from my term as Council Chair was the opportunity to host the AOS leadership in Dallas in October 2023 to prepare for the annual meeting. As a bonus, we were able to attend the Grand Rounds of the University of Texas Southwestern Department of Ophthalmology and then speak to the residents and fellows about the AOS, new techniques, and career paths.

AOS MEMBERSHIP

Members of the Society are encouraged to nominate eligible applicants for AOS membership. New member theses are published in the *American Journal of Ophthalmology* (continued thanks to **Richard K. Parrish, II, MD**, Editor of the AJO, for his ongoing support). The Society has about 250 Active members and approximately 150 Emeritus members.

SPECIAL THANKS

It has been an honor and a privilege to serve as Chair of the Council this past year. The strength of the Society is its members. It was wonderful to see so many members contribute their time and talents to the betterment of not only AOS but to society as a whole. I am humbled to be a part of an organization filled with the leaders in our profession, and I hope the Society continues to identify and reach out to future leaders. The helm is in good hands with EVP **David J. Wilson, MD**, incoming President **Julia A. Haller, MD**, and new Council Chair **Emily Y. Chew, MD**, with **Jayne S. Weiss, MD** joining the Council.

As always, a very special thanks to Amber Mendez, Alissa Evans, and Tim Losch for AOS organizational support. It is a pleasure to work with such talented, wonderful, and dedicated people.

I hope to see everyone at the 161st Annual Meeting in Naples, Florida, on May 15 – 17, 2025, as we continue to advance the mission of the AOS: to promote excellence in patient care, education, and research, to address essential issues in medicine, and to advance the art and science of ophthalmology.



2024 AOS Council

REPORT FROM THE COMMITTEE ON THESES

FREDERICUS (ERIK) VAN KUIJK, MD, PHD

This year the Committee on Theses continued to review theses through the online AJO editorial platform. For thesis resubmissions, efforts were made to solicit re-review from the same reviewers providing initial comments. Help was solicited from AOS members and in a few cases from prospective AOS candidates, if specific expertise was needed for a thesis outside the field of expertise of the thesis committee members. More extensive comments on proposals were provided to help to obtain a more likely acceptance of the theses themselves, and a tracking system was developed to encourage candidates to respond in a timely manner.

At the time of the 2024 annual meeting, decisions were made on 13 new thesis submission and 64 thesis revisions. More than 17 thesis proposals were reviewed. In my meeting with the council during the annual meeting, I have asked that the committee on theses be increased in size, to add expertise and reduce the workload. This requires a change to the bylaws and is under consideration.

Sincere thanks go to the reviewers and especially to fellow committee members, **Janey L. Wiggs, MD, PhD** and **David Huang, MD, PhD** for their insightful comments and reviews as well as AOS Member and other reviewers, Amber Mendez, Alissa Evans, and **David J. Wilson, MD** (Managing Editor) for their guidance and administrative support.



REPORT FROM THE COMMITTEE ON PROGRAMS

JENNIFER I. LIM, MD

The 160th Annual Meeting of the AOS, held at the beautiful Torrey Pines Lodge in San Diego, opened with the New Member Spotlight Presentations on the afternoon of May 16th and ended with a lovely banquet and AOS Medal ceremony on the evening of May 18, 2024. The membership actively participated in all aspects of the meeting. **Dr. Jennifer I. Lim** presided over the meeting as the Program Committee Chair. Other members of the Program Committee included **Carol L. Karp**, **Peter S. Hersh** and **M. Roy Wilson**. In addition, the AOS Council, **Dr. Preston H. Blomquist** (Council Chair), and Amber Mendez (AOS Association Manager) provided sage input and contributions the program committee. In particular, **Dr. Preston H. Blomquist** planned the Saturday Symposium program; he discussed the planned topics with **Dr. Jennifer I. Lim** and also reviewed the Knapp Symposium, which was planned by **Dr. Jennifer I. Lim**.

The Program Committee members reviewed each of the 52 submitted abstracts, ranked the abstracts, and then met virtually to select abstracts for either paper or poster presentations. During this process, **Dr. Jennifer Lim** asked members to consider several factors, which included the degree of demonstrated novelty or creativity, whether the topic would be of general interest or clinical value to the broad membership and diversity of topic and presenters. The top 18 ranked abstracts were selected as paper presentations. No abstracts were rejected, although 6 of the invited poster presenters declined to accept. The program committee members reviewed the suggested discussants for each paper presentation. Diversity and representation were considered in the identification of additional discussants (when necessary, e.g., when the suggested discussant was not an AOS member, not planning to attend the meeting or was also presenting a paper) and assignment of paper discussants. The Program committee appreciates the significant effort, initiative and productivity of Ms. Amber Mendez and Ms. Alissa Evans in the planning, oversight, and production of this successful AOS meeting.

The scientific program original investigations included 18 papers and 28 posters; the abstracts were available in a

printed program, as well as online. **Dr. Timothy W. Olsen** (AOS President) officially opened the meeting and presided with moderators, **Dr. Jennifer I. Lim**, and **Dr. Carol L. Karp** during the sessions. Due to personal commitments, **Dr. Peter S. Hersh** and **Dr. M. Roy Wilson** were not in attendance at the meeting. The paper presentations were grouped by topic and divided into three paper sessions, one per day. One paper was not presented due to a family member's illness. The majority of the speakers adhered to their time limits (7 minutes for the paper presenter and 3 minutes for the discussant), which allowed for 9 minutes of audience discussion following each paper. Members and moderators posed many questions which led to lively discussions. Of course, if possible, more time for discussion would be welcomed.

The posters were grouped by topic and were allocated into two guided sessions (8 electronic poster stations, each hosting 2 posters) with **Dr. Jennifer I. Lim** and **Dr. Carol L. Karp** as moderators. Each poster session duration was increased to one hour to allow more time for discussion. The sessions appeared to be better attended than in past years. As in recent prior meetings, poster presenters were asked to deliver a short presentation about their research in front of her/ his electronic poster and then to field audience questions.



Jose Pullido, MD

In accordance with ACGME guidelines, only the presenting author of each paper was required to disclose financial interests with ineligible companies that were relevant to the presentation. There were 13 CME hours offered for the program in 2024.

Highlights of the 160th Annual AOS Meeting included the Hermann Knapp Symposium on Thursday, The Marilyn T. Miller Lecture on Friday, and the Saturday Symposium. The Hermann Knapp Symposium entitled, “Technology’s Impact on Ophthalmology: The Future is Now” featured leaders in the field who discussed technological advances in ophthalmology. The speakers included robotic surgery (Dr. Jean-Pierre Hubschman, a guest), artificial intelligence (Dr. Aaron Y. Lee, a guest), innovative and cell-based therapies (**Dr. Mark S. Humayun**), amblyopia (**Dr. Donny W. Suh**), oculoplastics (**Dr. Tamara R. Fountain**) and gene therapy (**Dr. Elias I. Traboulsi**). The AOS members participated in lively discussions following these presentations.

Dr. George B. Bartley delivered The Marilyn T. Miller lecturer, entitled “Equity and Equal Opportunity: Finding Balance in Ophthalmology.” The lecture discussed very salient and important issues related to representation, diversity and inclusion. The discussion raised additional awareness and acknowledgement that disparities exist, and efforts should be made to provide equal opportunities and eliminate bias in ophthalmology.

The Saturday Symposium, entitled, “Parallel Populations-Institutionalizing Inequity?” continued the presentation of topics related to representation, diversity, and inclusion. Dr. OiYan A. Poon spoke about “Effect of Scotus Decision on Affirmative Action and State DEI.” **Dr. Louis R. Pasquale** discussed African Heritage and Glaucoma: A Deeper Dive. **Dr. Dimitri T. Azar** presented “Risk of AI Institutionalizing Inequity and Bias.” Dr. Lainie F. Ross presented “Risks of Genomic Editing and Generational Genomic Advantage.” All the speakers gave excellent talks, which generated a lively panel discussion.

The social programs provided ample time for camaraderie and networking. The spouse lecture, by Nancy J. Greene Esq. proved quite popular. The Reception Welcoming



Dr. Shahzad Mian and his wife Uzma

New Members, held on the ground of the Torrey Pines Lodge, featured breathtaking views of the golf course and ocean, and welcomed the new members. This year, pickleball overtook tennis as the favored racquet sport tournament. Golf, of course, remained popular. The gala banquet and closing reception were once again superb, replete with entertainment by our members who emceed. The awarding of the AOS Medal to **Dr. George B. Bartley** was a highlight of the evening. The venue provided a regal setting with amazing ocean sunset views while AOS members and guests celebrated together, renewed friendships and bid fond farewells.

On behalf of the Program Committee, thank you for entrusting us to create the Annual Meeting program. It was my distinct pleasure and an honor for me to serve as Program Chair. I am indebted to my amazing committee members, **Dr. Carol L. Karp**, **Dr. Peter S. Hersh** and **Dr. M. Roy Wilson** as well as to the AOS Council Chair, **Dr. Preston H. Blomquist**, for their collegiality, insights, and diligent work. I am also indebted to Ms. Amber Mendez and Ms. Alissa Evans for superb and responsive administrative help. I look forward to the 161st Annual Meeting of the Society, which is scheduled to be held at The Ritz-Carlton, Naples in Florida May 15 – 17, 2025.

REPORT FROM THE COMMITTEE ON MEMBERSHIP

R.V. PAUL CHAN, MD, MSC, MBA

The Committee on Membership (**R.V. Paul Chan, Tamara R. Fountain, Michele C. Lim, and Nicholas J. Volpe**) independently reviewed 21 membership applications and then met virtually on September 13, 2023, to discuss each candidate. A report recommending nineteen candidates unanimously and two with reservation by the committee was presented to the AOS Council for review and then the chair discussed it with the Council on October 7, 2023. The Council determined that twenty nominees be invited to prepare a thesis.

In consideration of each candidate, the strength of the individual candidates' application was determined by the criteria as outlined below.

- National/International reputation
- Academic rank
- Peer-reviewed publications in last 5 years
- Ability to write a thesis
- Boards, directorships, and leadership
- Specialty(ies)
- Sponsors
- Recommendations
- Areas of expertise

Additional criteria discussed included:

- Grants (funding agencies)
- Teaching responsibilities
- Presentations within 5 years
- Scholarship
- Leadership
- Ethics
- Professionalism
- Communication skills
- Diversity
- Potential contribution/participation to AOS

We utilized the online application for review. Given the importance of thesis completion, we continue to ask candidates for potential thesis topic(s) or areas. This can be changed but gives us an idea that they are prepared to write a thesis. If the nominee has not published extensively or has not had significant research experience, additional support should be provided in the nomination letter to outline the candidate's capacity to submit an acceptable thesis.

The future of the organization, as well as leadership in our profession, is dependent upon the continued growth of the AOS. Members are strongly encouraged to identify potential candidates who will bring diversity to the Society and have robust records in education, research, clinical care, advocacy, and service. Please nominate outstanding candidates for membership in the Society. The deadline to submit membership nominations each year is April 30th.



R.V. Paul Chan, MD

REPORT FROM THE ARCHIVIST PHOTOGRAPHER

RALPH C. EAGLE, JR, MD

I took hundreds of digital photographs at the One Hundred Sixtieth Annual Meeting of the American Ophthalmological Society held at the Lodge at Torrey Pines, California on May 16-18, 2024. The photos were taken with a Nikon Z9 mirrorless digital camera.

I photographed thirteen new members signing the AOS membership book. A photo show comprising 268 captioned photos in PDF format for the members-only meeting photo section of the AOS website was prepared. The photo show includes photos of the 2023 AOS President **Timothy W. Olsen, MD**, and his wife Virginia, the 2024 AOS Council, 2024 AOS Medal recipient **George B. Bartley, MD**, as well as photos of selected members and couples. 8 x 10-inch color prints of selected photos were sent to the Officers, Council Members, New Members, and other attendees.

The 2024 photo show has been posted online. The member's-only area of the AOS website now includes 28 downloadable photo shows beginning with the 1996 AOS meeting at the Grove Park Inn in Asheville, North



Carolina. The digital archive of the AOS comprises thousands of high-resolution digital photographs and 1400 digital images prepared from scanned transparencies.

REPORT FROM THE COMMITTEE ON EMERITI

THOMAS D. FRANCE, MD

The Annual Emeritus Luncheon during the AOS Annual Meeting was held on Saturday, May 18th from 1:00pm-2:30pm at The Lodge at Torrey Pines in La Jolla, California. We were happy to welcome a guest speaker for this luncheon, Dr. Sarah Allard who is an Associate Project Scientist at the University of California San Diego. Dr. Allard gave a talk on Microbiome Contributions to Human and Environmental Health. Thank you to all who attended. It was wonderful to see everyone in-person again.

I regret to inform you of the passing of the following AOS members since my last *AOS Transactions* report in 2023:

C. Gail Summers, MD*	Golden, CO	Member since 1996
H. Stanley Thompson, MD	Oxford, IA	Member since 1977

**Obituary for Dr. Gail Summers was published in the 2023 TAOS.*

REPORT FROM THE COMMITTEE ON NEW MEMBERS

WILLIAM JOSEPH DUPPS, JR., MD, PHD

THE FOLLOWING NEW MEMBERS WERE WELCOMED TO THE AOS THIS YEAR

Nisha R. Acharya, MD, MS

- F.I. Proctor Foundation, University of California, San Francisco
- **Specialty:** Uveitis/Immunology, Administration/Organization Leadership
- **Thesis:** *Outcomes in Patients with Vogt-Koyanagi-Harada Disease from the First-Line Antimetabolites for Steroid-Sparing Treatment Uveitis Trial*

Fatema F. Ghasia, MD

- Cleveland Clinic Lerner College of Medicine of Case Western Reserve University
- **Specialty:** Pediatric Ophthalmology and Adult Strabismus
- **Thesis:** *Inter-Ocular Fixation Instability of Amblyopia: Relationship to Visual Acuity, Strabismus, Nystagmus, Stereopsis, Vergence and Age*

Rachel W. Kuchtey, MD, PhD

- Vanderbilt Eye Institute
- **Specialty:** Glaucoma, Cataract/Anterior Segment
- **Thesis:** *In Search of Mouse Models for Exfoliation Syndrome*

Ann-Marie Lobo-Chan, MD, MS

- University of Illinois Hospital
- **Specialty:** Uveitis
- **Thesis:** *Risk Factors for the Development of Ocular Complications in Herpes Zoster Ophthalmicus and Zoster Vaccine Utilization in a Large, Urban Health System*

Mildred M.G. Olivier, MD, FACS

- Ponce Health Sciences University - Ponce School of Medicine
- **Specialty:** Administration/Organization Leadership, Glaucoma
- **Thesis:** *Contributions and Legacies of Selected Black Pioneers in Ophthalmology and Institutional Milestones*

Juliana Maria F. Sallum, MD, PhD

- Institute of Ocular Genetics and Federal University of São Paulo, Brazil
- **Specialty:** Ophthalmic Genetics, Retina/Vitreous
- **Thesis:** *Screening for Autism Spectrum Disorder in Children and Adolescents with Leber's Congenital Amaurosis*

Rafael L. Ufret-Vincenty, MD

- University of Texas Southwestern Medical Center
- **Specialty:** Retina
- **Thesis:** *Nonredundant Role of Leishmanolysin-Like (Lmln) Zinc-Metalloproteinase in Retinal Homeostasis*

Michael K. Yoon, MD

- Mass Eye and Ear, Harvard Medical School
- **Specialty:** Oculofacial Plastics/Reconstructive
- **Thesis:** *An Evidence-Based Approach to Diagnosing Patients Presenting with Orbital Inflammatory Syndromes (An American Ophthalmological Society Thesis)*



REPORT FROM THE COMMITTEE ON ATHLETICS

WOODFORD S. VAN METER, MD

The 160th Annual Meeting of the AOS May 23-26, 2024, returned to the scenic Lodge at Torrey Pines in La Jolla, CA after 11 years. The last time the AOS met at Torrey Pines was in 2013, when **Dr. Richard K. Parrish** was AOS President, **Dr. Tom J. Liesegang** was Executive Vice President and **Dr. Dick P. Mills** was Council Chair. At that meeting, **Dr. David J. Wilson** was incoming Council Chair, **Dr. Hans E. Grossniklaus** was elected AOS President and **Dr. Dan B. Jones** won the AOS Howe Medal. I only mention these things in passing because the heritage of the AOS is one of the things that makes being an AOS member special, and my job fun.

The weekend of the 160th AOS on the beautiful palisades overlooking the Pacific Ocean graced with chilly Pacific coast weather, replete with hang gliders and the beautiful Torrey Pines Golf Course vistas. The stalwarts played golf, ambitious hikers traversed the trails along the palisades enjoying the beautiful views of the Pacific Ocean and tennis was subverted by an onslaught of pickleball players. The AOS athletic events give members new and old a chance to socialize with other familiar names in our profession that they might not have had a chance to meet otherwise. The names of participants in the AOS athletic activities and on the AOS athletic trophies connect all of us with an illustrious past.

Golf and pickleball awards at the Torrey Pines venue were enthusiastically sought by all, coveted by many, won by a disputed few, and enjoyed across the board. The golf outing was held on the Torrey Pines South Course, home of the annual Farmers Insurance Open and the US Open in 2008, won by Tiger Woods over Rocco Mediate on the last hole of a Monday sudden death playoff. The inaugural AOS pickleball tournament, which was scheduled by popular demand in lieu of tennis, was held on the new pickleball courts at the adjacent Hilton Hotel. The scorched egos, recruiting violations, bad calls, coaching lapses, equipment scandals and occasional profanity were all forgotten by the time the Saturday night banquet rolled around, leaving the losers little to do but evaluate the winners' strategy, petition for more NIL money and plan for resurgence next year in Naples.

TROPHIES IN GOLF

Men

Mishima-Michels Trophy – Low Gross: **Dr. Donny W. Suh**
Canada-McCullough Cup – Low Net: **Dr. Peter A. Netland**
Truhlsen Trophy – Senior Low Gross: **Dr. Peter A. Netland**
Knapp Trophies – Random Draw Team Low Net:
Dr. Michael S. Ip, Dr. David J. Wilson*

*edged out **Dr. Chris T. Leffler** by one stroke

Ladies

Ellsworth Trophy – Low Gross: Susan Suh
Homestead-Callaway Cup – Low Net:
Dr. Martine J. Jager

DUBIOUS AWARDS FROM THE ATHLETICS DIRECTOR

Long Drive – Men: **Dr. Donny W. Suh**
Long Drive – Senior Men: no one hit fairway (C'mon, man!)
Long Drive – Ladies: Johanna Jager

Closest to the Pin – Men: (no one hit green....)
Closest to the Pin – Senior Men: **Dr. David J. Wilson**
Closest to the Pin – Ladies: **Dr. Martine J. Jager**

AWARDS IN PICKLEBALL

Men

Doubles Winners: **Dr. John J. Chen**, Mena Kozman
Doubles Runners-up: **Dr. Preston H. Blomquist, Dr. David Huang**
Men > 65 most games: Michael Pilla

Ladies

Doubles Winners: **Dr. Tamara R. Fountain**,
Dr. Nancy Newman
Doubles Runners-up: **Dr. Valerie L. Biousse, Dr. Jesse L. Berry**
Ladies >65 most games: Dr. Nancy Newman

HIKING

Leatherstocking Award: **Dr. Anne L. Coleman**

REPORT FROM THE COMMITTEE ON PRIZES

JOAN W. MILLER, MD

The Committee on Prizes is charged with selecting the Awardee of the AOS Medal and presenting the Award at the Annual Meeting banquet. The Committee selected a recipient for 2024. The Committee making that selection was comprised of **Richard L. Abbott, MD**, **Douglas D. Koch, MD**, and Chair, **Joan W. Miller, MD**.

The AOS Medal is awarded to recognize one or more of the following accomplishments: a discovery or innovation that advances the progress of ophthalmology in all parts of the world; outstanding original investigations in ophthalmology; significant contributions as an ophthalmic educator; and/or meritorious and remarkable service to ophthalmology. Assisted by Amber Mendez, the Committee on Prizes sent email communications to AOS membership requesting nominations for the Medal. This year, nominations were received from 13 AOS members; two individuals received two nominations each. The committee reviewed the nominations of the 11 individuals who received one or more nominations. All individuals newly nominated or previously nominated were considered by the Committee. The Committee also considered all members of AOS, in addition to outstanding individuals who are not AOS members.

The Committee on Prizes had email conversations, culminating in a conference call in December 2023. This resulted in all three of members of the Committee enthusiastically selecting **George B. Bartley, MD**, as the 2024 American Ophthalmological Society Medalist.

Dr. Bartley earned his BA degree from Miami University (Ohio) and his MD degree from The Ohio State University College of Medicine. He completed his residency in ophthalmology at Mayo Clinic in Rochester, MN, and his ophthalmic plastic and orbital surgery fellowship at Wright State University School of Medicine in Dayton, OH. **Dr. Bartley** joined the faculty in the Department of Ophthalmology at Mayo Clinic, Rochester in 1986, becoming Chair of the Ophthalmology Department in 1992. In 2001, he was elected to the Mayo Clinic Board of Governors; in 2002, he was appointed Chief Executive



AOS Medalist Dr. George B. Bartley and Joan Miller

Officer (CEO) for Mayo Clinic operations in Florida. During his term as CEO, **Dr. Bartley** built a state-of-the-art hospital (currently ranked #1 in FL by US News and World Report), doubled extramural funding for research, and achieved the highest patient satisfaction scores of any Mayo site in the country. In 2009, he returned to Mayo Clinic, Rochester, to resume his surgical practice. In 2017, he became the CEO of the American Board of Ophthalmology. Author or co-author on more than 300 publications, **Dr. Bartley** led a series of landmark epidemiological studies in the natural history of thyroid eye disease (TED), which have served as the clinical reference on Graves' eye disease the world over.

The American Ophthalmological Society Medal was awarded to **Dr. Bartley** at the Annual Meeting of the AOS in May 2024, by **Joan W. Miller, MD**. **Dr. Bartley** appeared genuinely surprised and pleased. We are especially appreciative to the team of **Drs. Sophie J. Bakri, Tim W. Olsen**, David Herman, and his wife Lynn Bartley, who were instrumental in gathering information and photos under "top secret" conditions.

REPORT FROM THE COMMITTEE ON AUDITS

JULIA A. HALLER, MD

MINUTES

WELCOME AND CALL TO ORDER

Dr. Julia A. Haller, AOS Audit Committee Chair, called the meeting to order at 11:00 a.m. PDT on Monday, July 22, 2024. The following Committee members, staff and guests were present:

Committee

Julia A. Haller, MD – Audit Committee Chair

William F. Mieler, MD – Audit Committee Member

David J. Wilson, MD – Executive Vice President

Staff

Amber Mendez – AOS, Manager / Associate Director, SF AMS

Alice Paw – Accounting Manager, American Academy of Ophthalmology

Mike Roll – Director of Finance, American Academy of Ophthalmology

Audit Partners

Rianne Suico – Partner, Moss Adams

Gordon Lam – Senior Manager, Moss Adams

REVIEW OF FISCAL YEAR 2023 AUDITED FINANCIAL STATEMENTS

Ms. Alice Paw provided an overview of the 2023 fiscal year end audited financial statements. Ms. Paw explained that since the financials are reported on a comparative basis, statements where amounts were reported included current and prior year balances. A summary of the data is reported below in tabulated form.

Item	2022	2023
Change in net assets from operations	(\$796,414)	(\$509,440)
Net investment income	\$183,384	\$242,976
Net gain on investments	(\$2,091,679)	\$1,142,950
Change in net assets	(\$2,704,709)	\$876,486
Net assets beginning of year	\$11,956,907	\$9,252,198
Net assets end of year	\$9,252,198	\$10,128,684

AOS revenue has been consistent each year. Management expenses had a slight increase in the 2023 year, and the annual meeting expenses decreased due to the meeting being held in Asheville, NC. Investments increased \$1.4M, gaining back losses from the previous year.

ACTION: The Committee accepted Ms. Paw's report as presented.

AUDIT PRESENTATION

Ms. Rianne Suico and Mr. Gordon Lam of Moss Adams presented the Report of Independent Auditors, which covered internal procedures, controls, accounts payable processes, and recognition of revenue. She reported that the consolidated financial statements were fairly presented in accordance with generally accepted accounting principles. She shared that no issues were discussed prior to their retention as auditors for the AOS, and that they had no disagreements with AOS management during the process.

ACTION: The Committee accepted the auditor's report as presented.

EXECUTIVE SESSION

Dr. Haller excused SF AMS and AAO staff, and the Committee met in an executive session with Ms. Suico and Mr. Lam of Moss Adams. The Committee did not identify any irregularities. Dr. Haller confirmed that processes did not warrant further investigation and that a separate audit on internal controls was not necessary.

ADJOURNMENT

Dr. Haller adjourned the meeting of the Audit Committee at 10:30 a.m. PDT on Monday, July 22, 2024.

AOS COUNCIL APPOINTMENTS

2024-2025

AOS President – **Julia A. Haller**

AOS Council – **Jayne S. Weiss**

Executive Vice President –
David J. Wilson to cont.

Editor – **David J. Wilson** to cont.

Member, Committee on Theses –
David Sarraf to join
Janey L. Wiggs, Chair
David Huang

Member, Committee on Programs –
Anne M. Hanneken to join
Carol L. Karp, Chair
M. Roy Wilson
Peter S. Hersh

Member, Committee on Membership –
Russell N. Van Gelder to join
Nicholas J. Volpe, Chair
Michele C. Lim
Tamara R. Fountain

Members, Committee on Communications –
Bennie H. Jeng, Chair to cont.
H. Nida Sen
Ron A. Adelman
Anat Galor
Nicholas J. Volpe

Committee on New Members –
Steven J. Gedde to join
Amani Fawzi, Chair
Suzanne K. Freitag

Member, Committee on Prizes –
Jennifer I. Lim to join
Richard L. Abbott, Chair
Douglas D. Koch

Chair, Committee on Emeriti –
Thomas D. France to cont.

Committee on Athletics –
Frederick W. Fraunfelder and
Woodford S. Van Meter to cont.

Chair, Audit Committee –
Preston H. Blomquist to join
William F. Mieler
David J. Wilson

Investment Committee –
Julia A. Haller and **Emily Y. Chew** to join
David J. Wilson

Archivist/Photographer – **Ralph C. Eagle, Jr.** to cont.

Representative to American Academy of
Ophthalmology Council –
Peter A. Netland and **Esen K. Akpek** to cont.

Representative to the American College of Surgeons –
Bita Esmaeli to join

Representative to the Pan American Association of
Ophthalmology –
Eduardo C. Alfonso to cont.

Representatives to the American Orthoptic Council –
Steven M. Archer and **Kanwal Nischal** to cont.

Representative to IJCAHPO –
Teresa C. Chen to cont.

Representatives to the Heed Ophthalmic Foundation –
David J. Wilson and **Julia A. Haller** to cont.

Parliamentarian –
Peter A. Netland to cont.

REPORT FROM THE REPRESENTATIVE TO THE COUNCIL OF THE AMERICAN ACADEMY OF OPHTHALMOLOGY

ESEN K. AKPEK, MD

This year the Spring Council Meeting at American Academy of Ophthalmology (AAO) Mid-Year Forum was held during April 17 to April 20, 2024, Washington D.C. at the Westin Hotel. Fifty-six societies (40 state societies and 16 subspecialty/specialized interest societies) participated in the meeting. Two hundred and twenty residents and fellows were supported to attend the Mid-Year Forum 2024 via the Advocacy Ambassador Program supported by the participating societies.

Advocacy Ambassadors had opportunity to network with Academy and society leaders as well as get their questions answered during their L.E.A.P. Forward (Leadership, Engagement, Advocacy and Practice Management) session. Each 2024 Advocacy Ambassador Program participant was mailed a letter from the Academy President Jane C. Edmond, MD and Chief Executive Officer **Stephen D. McLeod, MD**, along with a recognition which also acknowledged the sponsoring society. Ambassadors were encouraged to be active participants at the local state societies. Darby Miller, MD, MPH, chair of the YO Advocacy Subcommittee, past president of the Florida Society of Ophthalmology and member of the Leadership Development Program class of 2018, implemented year five of the Ambassador Mentor Program in conjunction with Mid-Year Forum 2024. Twenty of the 2024 Ambassadors were paired with mentors – Academy and society advocacy leaders – and will participate in a year-long effort to further engage them at the state level. This program is meant to complement and supplement the mentoring provided by the society Councilors.

Sohail J. Hasan, MD, PhD – Chair, OPHTHPAC Committee American Academy of Ophthalmology Surgical Scope Fund Lee A. Snyder, MD – Chair, Surgical Scope Fund Committee American Academy of Ophthalmology emphasized the importance of supporting the funds to manage optometry scope of work expansion. There was a full session regarding the role of artificial intelligence in the future of ophthalmology and healthcare.

Fall Council Meeting was held on October 17, 2024, at the Marriott Marquis Chicago at McCormick Place, in conjunction with the Annual AAO meeting. Prem S. Subramanian, MD, PhD Council Chair addressed the meeting regarding the top advocacy issues. Surgical Scope Fund's 25th Anniversary as well as OPHTHPAC® goals were discussed. Medicare Physician Fee Schedule Proposal, strategies to decrease the prior authorization burden on the physician offices were discussed. The shortage of physicians, particularly worse in neuro-ophthalmology and pediatric ophthalmology, was brought up. Strategies to mitigate the shortage and enhance recruitment were discussed. AAO is now organizing a Virtual Board Service Training Module Webinar for interested parties free of charge. Please consider attending.

Lastly, submission for new CARs will open Dec. 1. Sharing ideas for CARs that will have the greatest impact on our societies and patients will be important. More interaction between state and subspecialty societies may enable to draft and support CARs that identify problems and create meaningful solutions for Academy action.

REPORT FROM THE REPRESENTATIVE TO THE AMERICAN COLLEGE OF SURGEONS

BITA ESMAELI, MD, FACS

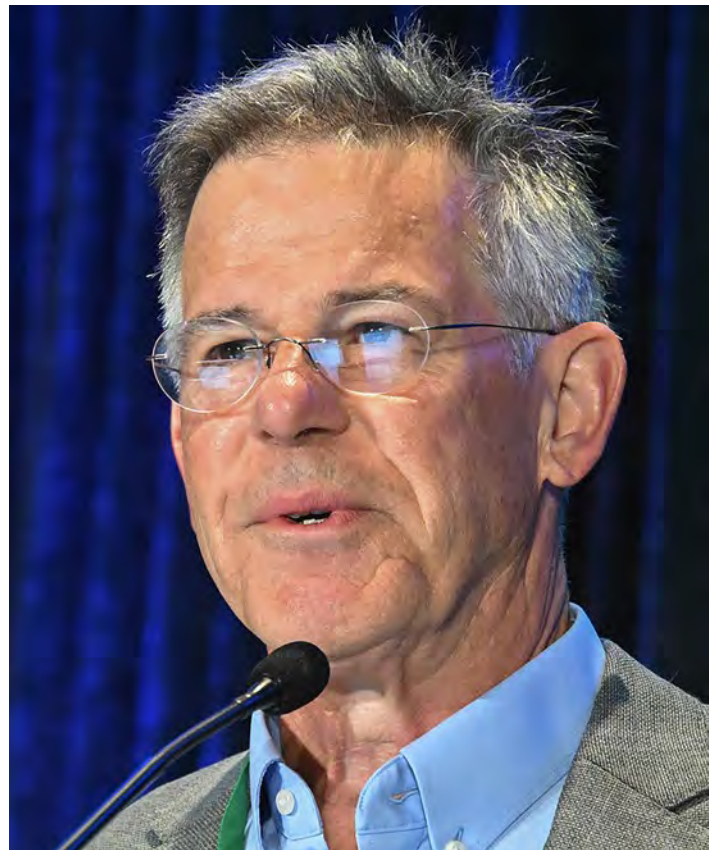
In my role as AOS representative at ACS, I serve on the Board of Governors of ACS. As a governor I was asked by ACS to specifically serve on the Surgical Volunteerism and Humanitarian Awards Working group. We reviewed several outstanding candidates for ACS awards in this category including some AOS colleagues whom I had nominated after consulting with AOS leadership. I plan to

continue to nominate ophthalmology colleagues who have been leaders in humanitarian efforts for these awards in the future years. My other active participation in ACS is my role as the co-chair of the Ophthalmic Oncology Task Force of the American Joint Committee on Cancer (AJCC) 9th edition working group.

REPORT FROM THE REPRESENTATIVE TO THE HEED OPHTHALMIC FOUNDATION

DAVID J. WILSON, MD

The Heed Ophthalmic Foundation Board of Directors consists of five members, and a minimum of two of those members are drawn from the AOS membership. The AOS is one of three sponsors of the annual Heed Resident Retreat. The 2024 Heed Resident Retreat was held in San Diego, CA immediately following the AOS meeting. This year 15 of the 30 faculty members were AOS members. The retreat is structured to encourage promising residents to enter a career in Academic Ophthalmology. Prior to the Heed Retreat, several of the residents attending the retreat were able to be guests at the AOS meeting, further stimulating their interest in an academic career.



Dr. David J. Wilson, MD

REPORT FROM THE REPRESENTATIVE TO THE AMERICAN ORTHOPTIC COUNCIL

KANWAL 'KEN' NISCHAL, MD, FRCOPHTH

The 2023-2024 year has been eventful for the AOC.

I. AOS REPRESENTATION ON THE AOC

The American Orthoptic Council is an organization supported by 8 entities:

- American Association for Pediatric Ophthalmology and Strabismus (AAPOS)
- American Ophthalmological Society (AOS)
- American Academy of Ophthalmology (AAO)
- American Academy of Pediatrics Section of Ophthalmology (AAP)
- American Association of Certified Orthoptists (AACO)
- Canadian Orthoptic Council (COC)
- The Canadian Orthoptic Society (TCOS)
- North American Neuro-ophthalmology Society (NANOS) – newly added

Current AOS representatives to the AOC include:

- **James D. Reynolds, MD – Dr. Reynolds** is stepping down and a replacement has been nominated and is being contacted by the Nominations Committee
- **Steve Archer, MD**
- **Kanwal 'Ken' Nischal, MD**

The input of these members is greatly appreciated as they have provided valuable input and leadership to the organization. We continue to value the AOS as a sponsoring organization.

James D. Reynolds, Ken Nischal and **Steve Archer** are actively involved in committees. Steve Archer is currently Treasurer.

Both **Steve Archer** and **James Reynolds** are heavily involved in the Orthoptic Fellowship Programs at their institutions.

James D. Reynolds and **Ken Nischal** sit on the Editorial Board of the Journal of Binocular Vision and Ocular Motility; the journal which is now published online by Taylor and Francis and replaced the American Orthoptic Journal. **Steve Archer** serves as a reviewer.

II. 2024 NEWLY CERTIFIED ORTHOPTISTS

In September, the AOC oral practical exams to certify orthoptists was again carried out virtually via zoom format. Thirteen candidates passed, achieving certification.

III. ORTHOPTIC FELLOWSHIP PROGRAMS

There are currently sixteen AOC accredited orthoptic fellowship programs in the U.S.

IV. JOURNAL OF BINOCULAR VISION AND OCULAR MOTILITY (BVOM)

AOJ, Inc, has successfully transitioned to the new publisher, Taylor & Francis. All members of AOC sit on the board which governs the publication together with the publisher. The BVOM is being published online 4 times a year with one yearly print version encompassing all 4 online publications. The journal was successful in maintaining the Medline status obtained by the AOJ and subscribers have access to all AOJ back-issues. The founding co-editors guiding this publication are Kyle Arnoldi, CO, and Burt Kushner, MD.

V. 2024 AAPOS WORKSHOP

The AOC/AAPOS joint workshop took place in Austin for the AAPOS Annual Meeting this past April. Don't Let the Sun go Down on Me: Diplopia in a Booming Population, was chaired and moderated by Sarah Whitecross. It was a very well attended session (full house!) and the feedback was incredibly positive. Speakers were Certified Orthoptists and ophthalmologists

VI. 2023 AAO/AOC/AACO SUNDAY SYMPOSIUM, SUNDAY, OCTOBER 20, 2024

"Heads up: Eye Signs of Brain Disease in Children" Co-Chaired by Rachael Jenkins and Geoff Bradford. Speakers were Certified Orthoptists and ophthalmologists

VII. ACCREDITATION

The AOC have decided not to pursue accreditation with the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

The Council will continue to be in charge of the certifying exams and certification and re-certification of certified orthoptists.

VIII. CORE COMPETENCY DOCUMENT

The AOC core competency document is available, outlining the clinical skill expectations for orthoptists. This will be used for training programs to better guide and set standards for the education of their students. This will also be available for international applicants requesting certification by the AOC. This document is available for a nominal fee from the home office. There has been a decision to augment this, and a working group is being organized to execute this.

IX. ANNUAL BUSINESS MEETING

We held our annual business meeting of all Council members on Friday, October 18th, 2024. The annual meeting contained annual officer reports as well as committee reports. New members were welcomed (Nancy Benegas MD, Gena Heidary MD, Lindsay Klaehn CO, Veronica Picard CO, Nick Sala DO). The Treasurer's report shows a sound financial position with a balance of \$239,581.26 as of June 30th 2024.

Highlights included candidate exam results and various committee reports.



REPORT FROM THE REPRESENTATIVE TO THE INTERNATIONAL JOINT COMMISSION ON ALLIED HEALTH PERSONNEL IN OPHTHALMOLOGY

TERESA C. CHEN, MD

1. GOVERNMENTAL ACTIVITIES

- Supported the International Council of Accreditation in its work to advance the development and accreditation of AOP training programs in the U.S. and Canada.
- Supported 2 CARs at the 2024 AAO Mid-Year Forum.
- Supported Oregon, Massachusetts, and Maryland state legislation that would include Ophthalmic Surgical Assisting trained and certified IJCAHPO technicians in the OR. State legislation passed in Oregon and IJCAHPO participated in the drafting of the legislation; MA and MD tabled their bills.
- Published survey report on *Number of Patients Seen by Technicians and their Ophthalmologist*.

2. SOCIOECONOMIC ACTIVITIES

AOP Career Advancement Initiatives

- Awarded US Department of Labor Apprenticeship Sponsor Recognition.
- Awarded Minnesota State Department of Labor Apprenticeship Sponsor Recognition.
- Awarded Minnesota Department of Labor LEAP Grant for women apprentices.
- Presented for the 7th year at HOSA International Leadership Conference (Health Occupations Students of America) with over 10,000 students attending.

3. PUBLIC SERVICE ACTIVITIES AND EYECARE AMERICA ACTIVITIES

- Presented free NEI Healthy Vision Month webinar for technicians.
- Awarded 56 Training Program Scholarships of nearly \$9,175 to ophthalmic technicians' academic education.
- Awarded 4 certification and continuing education grants.
- Awarded 25 educational grants totaling nearly \$5,000.
- Promoted Eyecare America Activities and NEI monthly Eye Care recognition programs.

4. MEMBERSHIP ACTIVITIES

- Elected new Board of Directors: Officers, Secretaries of Education and Certification, At-Large Directors.
- Total number of certificants – over 34,055 worldwide.

5. ANNUAL MEETING AND EDUCATIONAL ACTIVITIES

- IJCAHPO hosted its fourth annual hybrid program, a Virtual On-Demand and On-Site 51st Annual Continuing Education Program with Capstone Lecture Series: Innovations in Ophthalmology by leading ophthalmologists.
- Launched Membership Discussion Board: EYEXchange Connect.
- Provided 6 complimentary/free CE Credits to certificants.

8. OTHER ACTIVITIES (NOT MENTIONED ELSEWHERE)

- Presented AOP career at PAAO Congress in Puerto Rico, APAO Congress in Bali, OSWI Trinidad, and WOC/ICO Congress in Vancouver, BC.
- Worked with Columbia, Bangladesh, Ghana, Uruguay, Pakistan, and Ivory Coast to establish AOP academic training programs.

7. MAJOR INITIATIVES FOR THE YEAR

- Published 2 new Clinical Reference Manuals: *Core Skills* and *Retina Manual*.
- Invited by WHO to serve as technical advisor and developer of the Competency Refractive Error Team (CRET) and pilot cases.

September 2024

ACKNOWLEDGEMENT:

Special thanks to Lynn D. Anderson, PhD, Chief Executive Officer of IJCAHPO, for her help in preparing this report.

REPORT FROM THE REPRESENTATIVE TO THE PAN-AMERICAN ASSOCIATION OF OPHTHALMOLOGY

EDUARDO C. ALFONSO, MD

1. PAN-AMERICAN COUNCIL OF UNIVERSITY PROFESSORS (PACUPO)

Jorge E. Valdez, MD (Mexico) chairs **PACUPO**. The purpose of this program is to unite and standardize university training programs throughout Latin American through exchange programs and other means. Towards this end, Dr. Valdez has been working with Eduardo Mayorga MD, as Chair of the PAAO eLearning Committee. Dr. Mayorga created “Campus PAAO” to offer PAAO webinars and, over the years, many PACUPO members have given more than 150 educational courses free of charge. Dr. Mayorga has created asynchronous courses for students. The complete list of archived webinars and the schedule of upcoming webinars and asynchronous courses are available on the PAAO’s website www.paa.org.

2. FELLOWSHIPS COMMITTEE

Paulo E.C. Dantas MD (Brazil) chairs the Fellowships Committee. Scholarships are funded primarily by the Pan-American Foundation. As of 2024, all the training programs are fully functioning again.

3. VISITING PROFESSORS COMMITTEE

José Antonio Roca MD (Peru) chairs the **Visiting Professors Committee**. The Visiting Professors Program sends Visiting Professors to present the “Pan-American Lecture” at national ophthalmological meetings in the Americas. As of 2024, the national societies have resumed presentational meetings.

4. PAAO-YO ACTIVITIES

Eduardo Viteri Jr., MD (Ecuador) and Linda Cernichiaro MD (Mexico) co-chair the PAAO-YO program. The purpose of this program is to offer education and networking opportunities to young ophthalmologists around the world. The PAAO-YO organize webinars and are collaborating with the YO’s of the American Academy of Ophthalmology. For more information, please see <https://paaoyo.paa.org/>.

5. 2024 MEETINGS & EDUCATIONAL ACTIVITIES:

Continuing education and prevention of blindness programs are the primary mission for the PAAO.

20th Curso de Liderazgo (2022-2024): A live training course in collaboration with the American Academy of Ophthalmology on January 11-14, 2024, in San Francisco.

17th Pan-American Regional Course of Ophthalmology:

A live training regional course, co-hosted by the Puerto Rican Society of Ophthalmology in San Juan, Puerto Rico, on March 15-17, 2024. More than 700 ophthalmologists from around the world came together and shared scientific knowledge and the latest research advances.

21st Pan-American Research Day: Virtual meeting on Saturday, in collaboration with ARVO, on Saturday, June 1, 2024.

38th Lo Mejor de la AAO en Español: Virtual meeting on Saturday, November 2, 2024, which summarizes select topics that were presented during the Annual Meeting of the American Academy of Ophthalmology.

NECROLOGY IN MEMORIUM

C. GAIL SUMMERS, MD



C. Gail Summers, MD, a longtime member of the Pediatric Ophthalmology faculty at the University of Minnesota and an emeritus member of the AOS, passed away peacefully on February 17, 2024. Gail joined the AOS in 1996; her thesis was entitled “Ocular Albinism”. Gail is survived by her husband John MacDonald, daughter Shannon, and granddaughter Addison.

Gail was born in Florida and completed her undergraduate education at the University of Florida. She completed Medical School at the University of Minnesota, where she also completed her residency in ophthalmology and fellowship in Pediatric Ophthalmology under the direction of Robert Dean Letson, MD. She spent her entire career as a Faculty Member at the University of Minnesota where she served as the Director of the Pediatric Ophthalmology Division, specializing in genetic eye disease, with a specific focus on albinism where her practice attracted local, national, and international patients. She was deeply

committed to the albinism community. Her contributions were honored with the inaugural Dr. Carl Witkop Award for outstanding achievement in science and medicine. Her academic accomplishments include 237 peer reviewed publications (one published posthumously in March of 2024), 23 book chapters, and 48 research grants, including 10 from the National Institutes of Health. She trained 26 fellows in pediatric ophthalmology as well as 23 orthoptists, thus leaving an extended family of superbly educated providers across the nation.

Gail provided extensive service across ophthalmology societies as illustrated by numerous awards. She served as President of AAPOS from 2009 to 2010 and was named a Marshal M Parks Bronze Medalist. She also served on the Editorial Board of JAAPOS, as well as an Associate Editor. In addition, she received the Lifetime Achievement Award from AAPOS in 2011, the Senior Achievement Award (2012) and Secretariat Awards (2011 & 2013) from the AAO. In 2003, she received the Medical School Outstanding Alumni Award at the University of Minnesota. In 2012 she delivered the Marshall M Park Lecture at the American Academy of Ophthalmology annual meeting.

Gail was an exquisite mentor to medical students, residents, fellows, junior faculty, and for me when I assumed my role as Head of Ophthalmology at the University of Minnesota. **Gail** shared with me that her passion for mentorship originated from her parents, who had initially viewed her as a homemaker. Instead, she surprised them by becoming an outstanding academic ophthalmologist. With her husband John’s support, she worked hard, persevered, and graduated from college, medical school, residency, and fellowship. In every aspect of her work, she strove for excellence, whether it was a writing a paper, delivering a lecture, or a working through a research project. She was instrumental in establishing a sophisticated electrodiagnostic service in the Department of Ophthalmology at the University of Minnesota, particularly helpful to diagnose and monitor pediatric

genetic disease. Under **Dr. Summers'** direction the ERG unit was constructed as a Faraday cage (copper lined walls from the floor to the ceiling) with an isolated electric service to eliminate electrical signal noise interference. She interpreted ERG results for the department, until her retirement, always being careful to correlate the clinical phenotype with her interpretation. She also designed the Minnesota Lions Children's Eye Clinic, with 20' exam rooms, specialized to provide the best possible care for children.

After retiring from the University of Minnesota **Gail** and John moved to Colorado where she enjoyed the beauty of the mountains and spending time with family, especially her daughter Shannon and granddaughter Addison, who provided love and guidance. In her final days, she directed

her husband John to set up the Gail Summers Fund for Pediatric Ophthalmology at the University of Minnesota with a very generous donation. In lieu of a traditional funeral, **Gail** simply asked that donations in her memory be made to this fund. A final act of her tremendous generosity and dedication, leaving a strong legacy to our profession.

Gail will be missed by our colleagues, and we can only wish that we could thank her in person for everything that she has contributed to us personally and to the field.

Written By,

FREDERICUS (ERIK) VAN KUIJK, MD
MINNEAPOLIS, MN

H. STANLEY THOMPSON, MD



H. Stanley Thompson (1932-2023) was admired, valued, and loved by doctors in training, co-workers, patients, and colleagues around the world, leaving a neuro-ophthalmology legacy that will remain forever. Dr. Thompson's humanistic approach to patient's problems were always balanced by a connection with history and long strides toward the future through innovative, thoughtful clinical research aimed at helping the doctor and patient solve their problems. Dr. Thompson's long-standing interest in understanding the physiology and clinical disorders of the pupil endeared him internationally as the "Grandfather of the Pupil". Many of his most innovative ideas were modestly scribed on paper napkins over coffee and lunch gatherings to the delight of devoted medical students, residents and fellows, who then diligently worked with him to turn those ideas into valued pieces of knowledge, relied upon to this day by the world's most esteem clinicians.

Dr. H. Stanley Thompson was born June 12, 1932, in Taiyuan, Shanxi Province of Northern China where his parents, Ella and Ernest, worked as missionaries after leaving their home in Belfast, Ireland. His early life was not easy, having to live with his family in an internment camp in Weixian for four years during the WWII Japanese

occupation of China. In 1949, the communist party evicted missionaries from China and his family returned to Ireland. Stan's childhood was international, moving between China, Ireland and Switzerland before finally emigrating to the United States with his siblings, Paul and Joan. In 1949, he attended Wheaton College in Illinois where he met the love of his life, Delores Lucille Johnson to whom he was married for almost 70 years. He and Delores moved to Minneapolis Minnesota where he studied geography and anthropology at the University of Minnesota for his bachelor's degree. A stint in the U.S. Army Signal Corps, Photography Unit (1954-55) stimulated his interest in medicine, after which he attended medical school at the University of Minnesota in Minneapolis. He then moved to the University of Iowa for an internship year in internal medicine in 1961. Shortly upon arriving, Irene Loewenfeld PhD visited the ophthalmology department from Columbia University and showed a movie of the first electronic pupillograph. Completely fascinated with the topic, **Dr. Thompson** packed up his young family and moved to a small apartment in New York to pursue a pre-residency research fellowship year in the Lowenstein & Loewenfeld Pupillography Laboratory that shaped his future career and led to his decision to pursue ophthalmology and neuro-ophthalmology.

Dr. Thompson was accepted to the residency training program in ophthalmology at the University of Iowa, headed by Fred Blodi at the time, and graduated in 1966. As an NIH special clinical fellow, he moved to San Francisco for neuro-ophthalmology fellowship training at UCSF under the mentorship of William Hoyt and returned to the University of Iowa in 1967 as the first full-time faculty devoted to neuro-ophthalmology. Every morning, **Dr. Thompson** hosted daily morning neuro-ophthalmology case discussions from the previous day's patient list that were chronicled each day in a large, red hard-bound calendar book for each year. Entries and drawings by **Dr. Thompson** were testament to his wisdom and subtle sense of humor ("this case teaches us something important, but we just don't know what it is at this point"). The tradition of entries into the "Red Book" every morning continues to this day. With over 200 major papers and drawings on a multitude of napkins, his research has contributed to understanding of abnormal

pupil movements in clinical disorders, made possible by visualization through videographic recordings. His historical interest in ophthalmology and research on many notable figures in was one of his trademarks. On every trip, **Dr. Thompson** would bring an extra suitcase to transport antiquarian books he acquired at various meetings. These books lined rows of bookshelves on the second story of the Thomson farm residence. The sagging floor under their weight gave birth to the ground floor Ginniff Bookstore which he added onto their home upon retiring in 1997.

Family was always an important part of **Dr. Thompson's** life. He was a devoted husband, father, and grandfather. He raised four sons, Jeff, Peter, Philip and Ken, and one daughter Susie, and over 200 sheep, goats and chickens on his farm in Cosgrove, Iowa. Over the years, he gained three more daughters through marriage and many admiring grandchildren. Beginning in 1968, his family hosted an annual autumn Ophthalmology Department pot-luck "corn party" held out at the Thompson farm. One cannot forget the memories of **Stan Thompson** on his tractor bringing in the corn, the heated competitions in softball and volleyball and the vision of Sohan Hayreh maneuvering through a bicycle obstacle course at the farm.

H. Stanley Thompson, put simply, was an exemplary human being, as distinguished in his academic and medical pursuits. He was beloved by friends and family alike for his gregariousness and generosity. He will be missed by us all.

Dr. H. Stanley Thompson, a renowned neuro-ophthalmologist, died on January 15, 2023, at the age of 90. He was the beloved husband of Delores and father to five loving children. He will always be remembered as the "Grandfather of the Pupil" and the ultimate role model as a caring, thoughtful, and astute clinician and researcher, who brought out the best in all those who come in contact with him.

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