Meeting At A Glance
August 9 — 14

American Society of Retina Specialists
34th Annual Meeting
San Francisco, California
**TUESDAY, AUGUST 9**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
<th>Location</th>
<th>Faculty Members</th>
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<tbody>
<tr>
<td>1:00-2:15 PM</td>
<td>Uveitis Controversies by the Bay, Steven Yeh, MD</td>
<td>Nob Hill ABC</td>
<td>Thomas A. Albini, MD; Howard F. Fine, MD, MHSc; Rahul N. Khurana, MD; Purnima S. Patel, MD; Sunil Srivastava, MD; Robert C. Wang, MD</td>
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<tr>
<td>1:00-3:00 PM</td>
<td>The Scleral Buckle: New Light on the Lost Workhorse of Retinal Detachment Surgery, Kamal Kishore, MD, MBBS; Raja Narayanan, MD, MBA; Christina Y. Weng, MD, MBA</td>
<td>Nob Hill A/B</td>
<td>Royce W.S. Chen, MD; Ninel Z. Gregori, MD; Tamer H. Mahmoud, MD, PhD; Prithvi Mruthyunjaya, MD; Manish Nagpal, MD, FRCS(UK); D. Wilkin Parke, III, MD; Michael W. Stewart, MD</td>
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<td>1:00-3:00 PM</td>
<td>Combined Phacovitrectomy in the Era of MIVS and COMICS, Shobhit Chawla, MS and Edmund Y.M. Wong, MBBS, MMed, FRCS</td>
<td>Nob Hill A/B</td>
<td>Alay S. Banker, MD; Shu-Yen Lee, MBBS, FRCSEd(Ophth); Yusuke Oshima, MD, PhD; Gavin S. Tan, MBBS, MMED, FRCSEd(Ophth)</td>
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<td>1:00-2:15 PM</td>
<td>Advanced Macular Surgery—“Tell It Like It Is...”, Malhar Soni, DO, MS, DNB, FRCS</td>
<td>Yerba Buena 7-9</td>
<td>Steve T. Charles, MD; Carl Claes, MD; Kazuaki Kadonosono, MD</td>
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<td>2:30-3:45 PM</td>
<td>Newer Advances in Vitreo-Retinal Surgeries: Tools and Techniques, S. Natarajan, MD</td>
<td>Nob Hill A/B</td>
<td>Alay S. Banker, MD; Ehab N. El-Rayes, MD, PhD; Tamer H. Mahmoud, MD, PhD; Rishi P. Singh, MD</td>
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<td>3:15-5:15 PM</td>
<td>Secondary IOL Implantation and Fixation for Retina Specialists—Review of Techniques, Pros and Cons, Tips and Tricks, Gennady Landa, MD, and Matthew P. Ohr, MD</td>
<td>Yerba Buena 10-15</td>
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<td>3:15-4:30 PM</td>
<td>Pneumatic Retinopexy: All you Need to Know and Beyond, Wai-Ching Lam, MD, FRCS(C)</td>
<td>Nob Hill A/B</td>
<td>Varun Chaudhary, MD; Peter J. Kertes, MD, FRCS(C); Emmanouil Mavrikakis, MD, PhD; Rajeev H. Muni, MD, MSC, FRCS(C)</td>
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<td>3:15-5:15 PM</td>
<td>Uveitis for the Retina Specialist: What Do I Do Now?, Sam Dahr, MD and Sunil Sharma, MD</td>
<td>Yerba Buena 10-12</td>
<td>Francisco A. Folgar, MD and Sunil Srivastava, MD</td>
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<td>4:00-5:15 PM</td>
<td>Challenge the Masters Course, Gabriela Lopezcarasa Hernandez, MD; Calvin E. Mein, MD; Virgilio Morales-Canton, MD; Hugo Quiroz-Mercado, MD</td>
<td>Yerba Buena 13-15</td>
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<tr>
<td>7-10 PM</td>
<td>Welcome Reception</td>
<td>Museum of Modern Art</td>
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**EVENT LOCATIONS**

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<tr>
<th>Day</th>
<th>Locations</th>
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<tr>
<td>Instructional Courses</td>
<td>TUESDAY, AUGUST 9</td>
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<tr>
<td>Tuesday, August 9</td>
<td>Yerba Buena 10-15 and Nob Hill A-D Lower B2 Level</td>
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<td>Thursday, August 11</td>
<td>Yerba Buena 7-9 and Yerba Buena 10-12 Lower B2 Level</td>
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<td>Friday, August 12</td>
<td>Yerba Buena 7-9 and Yerba Buena 10-12 Lower B2 Level</td>
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<td>Saturday, August 13</td>
<td>Yerba Buena 10-15 and Nob Hill ABC Lower B2 Level</td>
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**ONGOING WEDNESDAY, AUG. 10 – SUNDAY, AUG. 14**

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<tr>
<th>Event Description</th>
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<tr>
<td>Speaker-Ready Room</td>
<td>Juniper Room B2 Level</td>
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<tr>
<td>Continental Breakfasts &amp; Breaks</td>
<td>Golden Gate Ballroom B2 Level</td>
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<tr>
<td>General Sessions</td>
<td>Yerba Buena 7-9 Lower B2 Level</td>
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<td>Lunches</td>
<td>Golden Gate Ballroom B2 Level</td>
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<tr>
<td>Electronic Poster Kiosks</td>
<td>Yerba Buena Ballroom Foyer Lower B2 Level</td>
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<td>PAT Survey Posters</td>
<td>Yerba Buena Ballroom Foyer Lower B2 Level</td>
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<tr>
<td>Global Trends in Retina Survey Posters</td>
<td>Yerba Buena 7-9 Lower B2 Level</td>
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<td>Exhibits</td>
<td>Golden Gate Ballroom B2 Level</td>
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<td>Paper on Demand (POD) Kiosks</td>
<td>Yerba Buena Ballroom Foyer Lower B2 Level</td>
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<td>3D Video Kiosks</td>
<td>Yerba Buena Ballroom Foyer Lower B2 Level</td>
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<tr>
<td>Film Festival Kiosks</td>
<td>Yerba Buena Ballroom Foyer Lower B2 Level</td>
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**Welcome Reception**

Tuesday, Aug. 9, 7-10 PM
Museum of Modern Art, 151 3rd St
WEDNESDAY, AUGUST 10

7:15-8:15 AM Continental Breakfast

7:45-7:50 AM Welcome, Mark S. Humayun, MD, PhD

7:50-9:05 AM Awards Ceremony
Moderators: Tarek S. Hassan, MD, and Mark S. Humayun, MD, PhD

7:50 Pyron Award Introduction, Tarek S. Hassan, MD
7:55 Pyron Award, Donald J. D’Amico, MD, Permanent Keratoprosthesis and Complex Ocular Reconstruction: New Opportunities and Challenges for the Vitreoretinal Surgeon
8:15 Discussion

8:20 Founders Award Introduction, Mark S. Humayun, MD, PhD
8:25 Founders Award, Carol L. Shields, MD, Innovations in Retina Tumors 2016
8:45 Discussion

8:50 Young Physicians Section (YPS), Crystal Apple Award Presentation to Lee Jampol, MD by Vincent Hau, MD, PhD and Netan Choudhry, MD, FRCS(C)

8:55 ASRS Presidents’ Retina Young Investigators Award Introduction, John T. Thompson, MD
8:57 ASRS Presidents’ Retina Young Investigators Award, Jayakrishna Ambati, MD, Solving AMD: Moving Forward by Stepping Back

9:05-9:25 AM Practice Management Symposium
Moderators: Reginald J. Sanders, MD and Trexler M. Topping, MD

9:05 Survey of Patient Utilization of Web-Based Health Data Management Technology in an Outpatient Ophthalmology Practice Setting, Robert Wong, MD
9:13 Retina PractiCare: Coding Benchmarks for Retina Specialists, John Thompson, MD
9:21 Discussion

9:25-10:05 AM Break

10:05-11:05 AM AMD Neovascular 1 Symposium
Moderators: David F. Williams, MD, MBA and David M. Brown, MD

10:05 Response to Ranibizumab of Eyes With Pigment Epithelial Detachments, Including Eyes That Developed RPE Tears: Data From the HARBOR Study, David Eichenbaum, MD
10:13 Gene Expression Modifications in Anti-VEGF Treated Retinal Müller Cells, Baruch Kuppermann, MD, PhD
10:21 “Real World” U.S. Outcomes of Anti-VEGF Therapy in Neovascular AMD: Risk of Vision Loss is Greatest in Patients with Better Baseline Visual Acuity, Thomas Ciulla, MD, MBA
10:29 Discussion
10:35 Long Term Results of Pro Re Nata Regimen of Aflibercept Treatment in Recurrent or Persistent Neovascular Age-Related Macular Degeneration, Ilkay Kilic Muftuoglu, MD
10:43 Interim Results and Key Learnings from an Ongoing Phase 2 Study of Encapsulated Cell Therapy Compared to Aflibercept in Patients With Wet AMD, Szilard Kiss, MD

10:51 Treatment Response to Antioxidant Supplementation Based on CFH and ARMS2 Genetic Risk Allele Number in AREDS Patients With No AMD at Baseline, Carl Awh, MD
10:59 Discussion

11:05-11:40 AM AMD Neovascular Expert Panel
Moderator: Robert L. Avery, MD

11:05 Macular Atrophy in Neovascular Age-Related Macular Degeneration Eyes Treated with Monthly or Treat-and-Extend Ranibizumab: TREAT-AMD Report No. 2, Nizar Abdelfattah, MD
11:08 Genetic Variants Associated With Anti-VEGF Drug Response in Neovascular AMD Patients in the VIEW Trial, Nancy Holekamp, MD
11:11 Baseline Lesion Features are Predictive of Visual Response in Patients With Neovascular AMD Treated With Topical Squalamine and Ranibizumab, Peter Kaiser, MD
11:14 A Novel Anti-VEGF/Anti-Angiopoietin2 Bispecific Monoclonal Antibody for Wet Age-Related Macular Degeneration and Diabetic Macular Edema, Pravin Dugel, MD
11:17 Discussion

11:40 AM-12:55 PM General Lunch and YPS Lunch

12:55-1:35 PM Macular Surgery Symposium
Moderators: Francesco Boscia, MD and Carl Claes, MD

12:55 ORBIT: A Phase IV Clinical Study—Lessons Learned From Patient Selection Criteria for Ocriplasmin Intravitreal Injection, Mathew MacCumber, MD, PhD
1:03 Differences in Surgical Performance in Peeling the ILM for Macular Holes Between Fellows-in-Training and Experienced Vitreoretinal Surgeons, Robert Gizicki, MD
1:11 Discussion
1:15 T-Shaped Macular Buckling Combined With 25-Gauge Pars Plana Vitrectomy for Macular Hole, Macular Schisis and Macular Detachment in Highly Myopic Eyes, Marco Mura, MD
1:23 The Evolution of Pre-Existing Epiretinal Membranes Following Cataract Extraction, Gayatri Reilly, MD
1:31 Discussion

1:35-1:55 PM Macular Surgery Symposium—Rapid Fire Papers
Moderators: Christine Gonzales, MD and Gaurav K. Shah, MD

1:35 The OASIS Trial: Natural History of Symptomatic Vitreomacular Adhesion, Joseph Coney, MD
1:40 The OASIS Trial: Efficacy and Safety Outcomes in Subjects With Full-Thickness Macular Hole, Michael Tolentino, MD
1:45 Correlation of Intraoperative Optical Coherence Tomographic Images With Postoperative Foveal Microstructure in Eyes With Idiopathic Macular Hole, Makoto Inoue, MD
1:50 Discussion

1:55-2:30 PM Macular Surgery Expert Panel
Moderator: Carl C. Awh, MD
<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>1:55</td>
<td>Anatomic and Functional Outcome After Surgery for Myopic Macular Hole:</td>
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<td>Internal Limiting Membrane (ILM) Flap Technique Versus Complete ILM</td>
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<td>Removal, Grazia Pertile, MD</td>
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<td>1:58</td>
<td>Mechanism of “Flap Closure” After the Inverted Internal Limiting</td>
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<td>Membrane Flap Technique, Zofia Michalewska, MD, PhD</td>
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<td>2:01</td>
<td>Autologous and Allogeneic Lens Capsular Flap Transplantation in the</td>
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<td>Management of Refractory Macular Hole, Peiquan Zhao, MD</td>
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<td>2:04</td>
<td>Autologous Retinal Transplant With and Without Choroidal Transplant in</td>
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<td>Chronic Refractory Macular Holes, Tamer Mahmoud, MD, PhD</td>
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<td>2:07</td>
<td>Discussion</td>
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<td>SPECIAL ANNOUNCEMENT</td>
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<td>2:30-3:10 PM</td>
<td>Break</td>
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<td>3:10-3:40 PM</td>
<td>Pediatric Symposium</td>
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<td>Moderators: Antonio Capone, Jr, MD and Darius M. Moshfeghi, MD</td>
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<td>3:10</td>
<td>Retinal Detachment in a Pediatric Population: A Retrospective Review</td>
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<td>of Etiology and Outcome at the Bascom Palmer Eye Institute, Audina</td>
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<td>Berrocal, MD</td>
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<td>3:18</td>
<td>Computer-Based Image Analysis in Retinopathy of Prematurity: Are We</td>
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<td>There Yet?, J. Campbell, MD, MPH</td>
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<td>3:26</td>
<td>Fluorescein Angiographic Evaluation of Peripheral Retinal Vasculature</td>
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<td>After Ranibizumab Injection for Type I Retinopathy of Prematurity, Clio</td>
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<td>Harper, MD</td>
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<td>3:34</td>
<td>Discussion</td>
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<td>3:40-4:00 PM</td>
<td>Pediatric Symposium—Rapid Fire Papers</td>
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<td>Moderators: Audina M. Berrocal, MD and Kimberly A. Drenser, MD</td>
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<td>3:40</td>
<td>HIPPA and Malpractice Pitfalls in Providing Care to Infants at Risk for</td>
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<td>Retinopathy of Prematurity (ROP) for Physicians Employing Digital</td>
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<td>Imaging Technologies, Antonio Capone, MD</td>
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<td>3:45</td>
<td>Longitudinal Changes of Peripapillary Pigmentation and Optic Nerve</td>
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<td>Area in the SUNDROP Preterm Infants: The Influence of Treatment Warranted</td>
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<td>ROP, Darius Moshfeghi, MD</td>
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<td>3:50</td>
<td>Bilateral Simultaneous Vitrectomy in Stage 4-5 ROP, Sengul Ozdek, MD</td>
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<td>3:55</td>
<td>Discussion</td>
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<td>4:00-5:00 PM</td>
<td>Medical Case Conference</td>
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<td>Moderators: Neil M. Bressler, MD, and William F. Mieler, MD</td>
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<td>Presenters: John Allen, MD</td>
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<td>Netan Choudhry, MD, FRCS(C)</td>
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<td>Ananda Kalevar, MD, FRCS(C)</td>
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<td>Rahul Khurana, MD</td>
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<td>Min Kim, MD</td>
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<td>Colin McCannel, MD</td>
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<td>Tara McCannel, MD, PhD</td>
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<td>Prithvi Mruthyunjaya, MD</td>
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<td>Quan Nguyen, MD, MSc</td>
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<td>Sandeep Randhawa, MD</td>
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<td>Soraya Rofagha, MD, MD</td>
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<td>Christina Weng, MD, MBA</td>
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<td>Fatoumata Yanoga, MD</td>
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<td>Surgical Case Conference</td>
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<td>Moderators: Carl C. Awh, MD and Kourous A. Rezaei, MD</td>
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<td>Panelists: Maria H. Berrocal, MD</td>
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<td>David R. Chow, MD, FRCS(C)</td>
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<td>Jay S. Duker, MD, Akito Hirakata, J. Michael Jumper, Judy E. Kim,</td>
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<td>Stanislao Rizzo, MD</td>
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<td>Presenters: Apoorva Ayachit, MS, Boris Bajaire, Jonathan Chang, MD</td>
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<td>Vaidehi Dedania, MD, Dilraj Grewal, MD, Amir Reza Hajrasouliha, MD</td>
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<td>Kamal Kishore, MD, Emmanouil Mavrikakis, MD, Manish Nagpal, MD, Darius</td>
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<td>Moshfeghi, MD</td>
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<td>Aleksandra Rachitskaya, MD</td>
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<td>6:30-9:00 PM</td>
<td>Women in Retina (WinR) Case Conference</td>
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<td>Nob Hill ABC, Lower B2 Level</td>
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THURSDAY, AUGUST 11

7:30-8:30 AM Continental Breakfast

8:00-8:50 AM Imaging, Digital, and Angiography Symposium
Moderators: Jay S. Duker, MD and Amir H. Kashani, MD, PhD
8:00 The “Double-Layer Sign” on Spectral-Domain Optical Coherence Tomography, Giridhar Anantharaman, MS
8:08 Evaluation of Choroidal Neovascularization Response to Anti-Vascular Endothelial Growth Factor Treatment With Quantitative OCT Angiography, Steven Bailey, MD
8:16 Discussion
8:20 Qualitative and Quantitative Spectral Domain OCT Angiography (SD-OCTA) of Diabetic Retinopathy, Amir Kashani, MD, PhD
8:28 Quantitative Microscopic Validation of OCT Angiography Using Adaptive Optics Scanning Light Ophthalmoscope Fluorescein Angiography (AOSLO-FA), Richard Rosen, MD, DSc(Hon)
8:36 Analysis of Vascular Dilation and Tortuosity Using the ROPtool, Kimberly Drenser, MD
8:44 Discussion

8:50-9:25 AM Imaging Expert Panel
Moderator: John S. Pollack, MD
8:50 Ultra-Widefield Steering-Based SD-OCT Imaging of the Retinal Periphery, Netan Choudhry, MD, FRCS(C)
8:53 Lessons for the High Volume Clinic From an Initial Experience of Optical Coherence Tomography Angiography (OCTA), Catherine Egan, FRANZCO
8:56 Will Optical Coherence Tomography Angiography Shine When Traditional Ophthalmic Imaging Failed?, Ching Chen, MD
8:59 Computerized Automated Characterization of Ultra-Widefield Fluorescein Angiography Features, Justis Ehlers, MD
9:02 Discussion

9:25-10:05 AM Break

10:05-10:55 AM Retinal Vascular Symposium
Moderators: Suber S. Huang, MD, MBA and Anat Loewenstein, MD
10:05 Individualized Ranibizumab Treatment in Patients With RVO Leads to Visual Acuity Outcomes Consistent With a Monthly Dosing Regimen, W. Clark, MD
10:13 Baseline OCT Predictors in Macular Edema Due to BRVO: MARVEL Report No.3, Raja Narayanan, MD
10:21 Selective Retina Therapy for Chronic Central Serous Chorioretinopathy, Young Jung Roh, MD
10:29 Discussion
10:34 Intravitreal Aflibercept for Previously Treated Macular Edema Associated With Central Retinal Vein Occlusions: 1 Year Results From the NEWTON Study, Rahul Khurana, MD
10:42 Evaluation of Macular Vascular Abnormalities Identified With Optical Coherence Tomography Angiography in Patients With Various Sickle Cell Genotypes, Adrienne Scott, MD
10:50 Discussion

Moderators: Paul Hahn, MD, PhD and Linda A. Lam, MD
10:55 Top 10 Pearls From the SHORE Study: Ranibizumab Treatment for Central and Branch Retinal Vein Occlusion, Robert Johnson, MD
11:00 Impact of Retinal Ischemia on Visual Acuity Outcomes Following Ranibizumab Treatment Over 24 Months in Patients With Retinal Vein Occlusion, Michael Fielden, MD, FRCS(C)
11:05 The Effect of Intravitreal Aflibercept on Perfusion Status in Patients With Retinal Vascular Disease: The ANDROID Study, Jeffrey Heier, MD
11:10 Discussion

11:15-11:45 AM Diabetic Retinopathy 1 Symposium
Moderators: Mathew W. MacCumber, MD and Judy E. Kim, MD
11:15 Deep Capillary Macular Flow Index and Degree of Vessel Density Obtained With OCT Angiography Strongly Correlate With Severity of Diabetic Retinopathy, K. Chalam, MD, PhD, MBA, FRCS(C)
11:23 Baseline Characteristics Associated With Changes in Diabetic Retinopathy Severity Scale (DRSS) Score: Analyses From the VISTA and VIVID Studies, Dilsher Dhoot, MD
11:31 Effect of Vitreomacular Adhesion on Treatment Outcomes in the Ranibizumab for Edema of the Macula in Diabetes (READ-3) Study, Diana Do, MD
11:39 Discussion

11:45 AM-1:00 PM General Lunch and WinR Lunch

1:00-2:45 PM Diabetic Retinopathy 2 Symposium
Moderators: Rajendra S. Apte, MD, PhD and Peter K. Kaiser, MD
1:00 Prospective Trial Comparing Ranibizumab Monthly to Treat and Extend With and Without Angiography-Guided Laser for DME: TREX-DME 1 Year Outcomes, John Payne, MD
1:08 Vision Gains With Ranibizumab in Eyes With Diabetic Macular Edema and Retinal Nonperfusion at the Macula, Rahul Reddy, MD, MHS
1:16 Ranibizumab Induces Regression of Diabetic Retinopathy (DR), Prevents Retinal Nonperfusion in Patients at High Risk of Conversion to Proliferative DR, Charles Wykoff, MD, PhD
1:24 Discussion
1:30 Optical Coherence Tomography Angiography of Diabetic Macular Edema and its Association With Anti-VEGF Treatment Response, Young Hee Yoon, MD
1:38 Cost-Effectiveness of Aflibercept, Bevacizumab, or Ranibizumab for Diabetic Macular Edema: Analysis from a DRCR.net Comparative Effectiveness Trial, Neil Bressler, MD
1:46 An Exploratory Analysis of Persistent Macular Thickening Following Intravitreal Ranibizumab for Center-Involved DME With Vision Impairment, Susan Bressler, MD
1:54 Discussion
2:00  Multiplex Vitreous Cytokine Analysis From Office-Based Vitreous Aspiration, **Vaidehi S. Dedania, MD**

2:08  AKB-9778 in the Treatment of Diabetic Macular Edema: Results From the TIME-2 Study, **Arshad Khanani, MD**

2:16  Discussion

2:22  The Top 10 Insights From the RIDE/RISE Trials of Ranibizumab in Patients With Diabetic Macular Edema, **Rishi Singh, MD**

2:30  Real World Data Regarding Initial Visual Acuity In Diabetic Macular Edema (DME), **Nathan Steinle, MD**

2:38  Discussion

2:45-3:10 PM  **Diabetic Retinopathy Expert Panel**

Moderator: **Tarek S. Hassan, MD**

2:45  Panretinal Photocoagulation Versus Ranibizumab for Proliferative Diabetic Retinopathy: Patient-Centered Outcomes in a Randomized Clinical Trial, **Calvin Mein, MD**

2:50  Randomized Trial of PRP vs. Intravitreal Ranibizumab Plus Deferred PRP for Proliferative Diabetic Retinopathy: Treatment Algorithm and Outcomes, **Andrew Antoszyk, MD**

2:55  Cost Utility Comparison Between Panretinal Photocoagulation vs Intravitreal Ranibizumab for Proliferative Diabetic Retinopathy, **Jonathan Chang, MD**

3:00  Discussion

3:10-3:50 PM  **Break**

3:50-5:05 PM  **Instructional Courses**

**Yerba Buena 10-12**  OCT Angiography in Clinical Practice, **Sophie J. Bakri, MD**

Faculty: **Jay S. Duker, MD; Peter K. Kaiser, MD; Amir H. Kashani, MD, PhD; Richard B. Rosen, MD, DSc(Hon); David Sarraf, MD; Srinivas R. Sadda, MD; Sunil Srivastava, MD**

**Yerba Buena 7-9**  ASRS Research and Therapeutics (ReST) Committee Symposium: Clinical Trials “Unplugged”: Real, Practical Questions and Answers, **Jeffery S. Heier, MD**

Faculty: **Pravin U. Dugel, MD; David S. Boyer, MD; David M. Brown, MD; Diana V. Do, MD; Tarek S. Hassan, MD; J. Michael Jumper, MD; Peter K. Kaiser, MD; Judy E. Kim, MD; Baruch D. Kuppermann, MD, PhD; Jennifer I. Lim, MD; Quan Dong Nguyen, MD, MSc; John S. Pollack, MD; Philip J. Rosenfeld, MD, PhD; John T. Thompson, MD**

6:30-7:30 PM  **ASRS International Members Reception**

**Yerba Buena Ballroom Foyer Lower B2 Level**

**FRIDAY, AUGUST 12**

7:30-8:30 AM  **Continental Breakfast**

8:00-9:20 AM  **AMD Neovascular 2 Symposium**

Moderators: **Jeffery S. Heier, MD and John T. Thompson, MD**

8:00  Autologous RPE Transplantation in Cases of Long-Standing, Refractory Wet AMD, **Nikoloz Labauri, MD, FVRS**

8:08  Prospective, Randomized, Subject-Masked Evaluation of Intravitreal Sirolimus vs Anti-VEGF in Chronic Neovascular AMD With Persistent Retinal Fluid, **Raj Maturi, MD**

8:16  Discussion

8:20  Comparison of Treatment Outcomes Among Subtypes of Polypoidal Choroidal Vasculopathy in a Multicenter Randomized Controlled Study (EVEREST Study), **Colin Tan, MBBS, MMed (Ophth), FRCSEd (Ophth)**

8:28  High-Dose Ranibizumab Treatment in Polypoidal Choroidal Vasculopathy: PEARL 2 Trial (Polypoidal Choroidal Vasculopathy With Intravitreal Ranibizumab), **Raymond Wee, MD**

8:36  Outcomes and Practice Preferences After Anti-VEGF Injection Endophthalmitis, **Yicheng Chen, MD**

8:44  Discussion

8:50  Effects of Aflibercept in Patients With Polypoidal Choroidal Vasculopathy: One-Year Results of the VAULT Study, **Joo Eun Lee, MD**

8:58  Previous Intravitreal Therapy is Associated With Increased Risk of Posterior Capsule Rupture During Cataract Surgery, **Aaron Lee, MD, MSCI**

9:06  Topical Dorzolamide-Timolol With Intravitreal Anti-Vascular Endothelial Growth Factor for Neovascular Age-Related Macular Degeneration: A Pilot Study, **Jason Hsu, MD**

9:14  Discussion

9:20-9:50 AM  **Ocular Oncology Symposium**

Moderators: **Prithvi Mruthyunjaya, MD and Rishi Singh, MD**

9:20  Next Generation Sequencing of Uveal Melanoma, **Armin Afshar, MD, MBA**

9:28  Randomized, Prospective Study of Aflibercept for Visually Significant Radiation Maculopathy—Interim Analysis, **Timothy Murray, MD, MBA**

9:36  Ocular Oncology Study Consortium (OOSC) Report No 2: Effect of Clinical and Pathologic Variables on Biopsy Complication Rates, **Amy Schefler, MD**

9:44  Discussion

9:50-10:30 AM  **Break**

10:30-11:05 AM  **Ocular Oncology Symposium—Rapid Fire Papers**

Moderators: **Prithvi Mruthyunjaya, MD and Rishi Singh, MD**

10:30  Correlation Between Largest Basal Diameter, Gene Expression Profile, and Survival of Patients With Posterior Uveal Melanoma Evaluated by FNAB, **Zelia Correa, MD, PhD**

10:35  Outcomes of Chorioretinal Biopsy Using 27-Gauge Microincision Vitrectomy, **Prithvi Mruthyunjaya, MD**
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<th>Time</th>
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<th>Speaker(s)</th>
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<tr>
<td>10:40</td>
<td>Retinal Astrocytic Hamartoma Arises Within Nerve Fiber Layer and Demonstrates Optically Empty Spaces on Spectral Domain Optical Coherence Tomography,</td>
<td>Emil Anthony Say, MD</td>
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<tr>
<td>10:45</td>
<td>Discourse</td>
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<td>10:50</td>
<td>Prognostic Choroidal Melanoma Biopsy After Proton Beam Radiotherapy,</td>
<td>Bertil Damato, MD, PhD, FRCOphth.</td>
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<td>10:55</td>
<td>Visual Benefit of Iodine-125 Brachytherapy With Vitrectomy and Silicone Oil for Large Choroidal Melanoma: 1-to-1 Matched Case-Control Series, Tara McCannel, MD, PhD</td>
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<td>11:00</td>
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**11:05-11:45 AM AMD Non-Neovascular Symposium**
Moderators: Julia A. Haller, MD and Lawrence Halperin, MD

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<th>Time</th>
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<tr>
<td>11:05</td>
<td>Remote Home Monitoring of Early-to-Intermediate Age-Related Macular Degeneration,</td>
<td>Vincent Hau, MD, PhD</td>
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<tr>
<td>11:13</td>
<td>Detection of Asymptomatic Neovascularization in Intermediate Age-Related Macular Degeneration Using Swept Source Optical Coherence Tomography Angiography,</td>
<td>Philip Rosenfeld, MD, PhD</td>
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<td>11:21</td>
<td>Discourse</td>
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<td>11:25</td>
<td>Nucleoside Analogs and Derivatives as Therapies for AMD, Jayakrishna Ambati, MD</td>
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<tr>
<td>11:33</td>
<td>Severe Vision Loss After Intravitreal Injections of Autologous Adipose Tissue-derived Stem Cells for Age-Related Macular Degeneration,</td>
<td>Ajay Kuriyan, MD, MSc</td>
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<td>11:41</td>
<td>Discussion</td>
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**11:45 AM-1:05 PM General Lunch and Fellowship Directors’ Section Lunch**

**1:05-1:15 PM**

**Presidential Address, Tarek S. Hassan, MD**

**1:15-3:05 PM Surgical Techniques and Maneuvers Symposium**
Moderator: Kirk H. Packo, MD and Stanislao Rizzo, MD

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<th>Time</th>
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<tr>
<td>1:15</td>
<td>Transitioning Vitreoretinal Surgery From Microscope to Stereoscopic Display; No Negative Impact on Surgical Times or Outcomes,</td>
<td>Mark Barakat, MD</td>
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<tr>
<td>1:23</td>
<td>The Impact of Intraoperative OCT on Vitreoretinal Surgery for Proliferative Diabetic Retinopathy: Findings From the DISCOVER Study,</td>
<td>Mehnaz Khan, MD</td>
</tr>
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<td>1:31</td>
<td>Comparison of Ocular Aberrations Measured by Wavefront Aberrometry Before and After Vitrectomy for Floaters,</td>
<td>Daniel Adelberg, MD</td>
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<td>1:39</td>
<td>Discussion</td>
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<tr>
<td>1:45</td>
<td>Primary Rhegmatogenous Retinal Detachment With Inferior Retinal Breaks Postoperative Prone Positioning Results: 1 day vs 7 days,</td>
<td>Radwan Ajlan, MBBCh, FRCS(C)</td>
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<tr>
<td>1:53</td>
<td>Nonvitrectomizing Vitreous Surgery in Retinal Diseases Requiring Anti-VEGF Treatment,</td>
<td>Andre Principe de Oliveira, MD</td>
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<tr>
<td>2:01</td>
<td>Surgical and Visual Outcomes of Pars Planalensectomy, With or Without Scleral Fixated Lens Implantation in Microspherophakia,</td>
<td>Vishal Raval, MBBS, DNB, FMRF</td>
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2:09  Discussion

2:15  Refractive Vitreoretinal Surgery: Femtosecond Laser-Assisted Cataract and Vitrectomy Surgery, Stanislao Rizzo, MD

2:23  27-Gauge vs 25-Gauge Vitrectomy for Different Retinal Pathologies, Francesco Boscia, MD

2:31  Macular Hole Surgery Assisted by Perfluorocarbon Liquids, Virgilio Morales-Canton, MD

2:39  Discussion

2:45  A Novel Technique for IOL Fixation Utilizing Gore-Tex Suture, Jonathan Prenner, MD

2:53  The Removable Scleral Buckle-Back to the Future?, Paul Tornambe, MD

3:01  Discussion

**3:05-3:45 PM Break**

**3:45-5:00 PM Instructional Courses**

**Yerba Buena 7-9**
RETINAWS: When the Going Gets Tough, the Tough Get Going, Challenging Cases in Vitreoretinal Surgery, Kouroos A. Rezaei, MD
Faculty: J. Fernando Arevalo, MD, FACS; Alay S. Banker, MD; Ehab N. El-Rayes, MD, PhD; Andre V. Gomes, MD, PhD; Yuichiro Ogura, MD; Kirk H. Packo, MD, FACS; Grazia Pertile, MD; Homayoun Tabandeh, MD; Daniele Tognetto, MD

**Yerba Buena 10-12**
Pediatric Vitreoretinal Surgical Techniques: An Interactive Video Panel, Cynthia A. Toth, MD
Faculty: Caroline Baumal, MD; Audina M. Berrocal, MD; George Caputo, MD; R.V. Paul Chan, MD; Mary Elizabeth Hartnett, MD; Michael T. Trese, MD; Lejla Vajzovic, MD

**5:05-5:50 PM Foundation Event: Howard Schatz Presents His Award-Winning Photography**

**5:15-7:15 PM FIT Section Networking Reception**

**5:15-7:15 PM**

**Foothill E Second Level**
### SATURDAY, AUGUST 13

**7:30-8:30 AM** Continental Breakfast

**8:00-8:30 AM** Instrumentation and Devices Symposium  
Moderators: Pravin U. Dugel, MD and Raymond Iezzi, MD, MS
- 3D Printers and Customized Vitreoretinal Forceps, David Chow, MD, FRCS(C)
- Vitrectomy Infusion Control Based on Ophthalmic Artery Perfusion Pressure: A Novel Device, Tommaso Rossi, MD, EBOD
- Sight Recovery Project for Argus II Implanted Patients Affected by Retinitis Pigmentosa, Fabio Patelli, MD

**8:00-8:30 AM** Instrumentation and Devices Expert Panel  
Moderator: Philip J. Ferrone, MD
- Digital Electro-Optical Surgical Platform for Retina Surgery as a Replacement of Operational Microscopes, Adiel Barak, MD
- Thermal Profile of a Novel Hypersonic Vitrector (HV), Victor Gonzalez, MD
- Engineered Biopolymer Thin-Films for Extended Intravitreal Drug Delivery: Preclinical Feasibility Studies, Robert Bhisitkul, MD, PhD
- Argus I vs Argus II: A Comparison of Two Epiretinal Prostheses, Mark Humayun, MD, PhD

**8:30-9:05 AM** Instrumentation and Devices Symposium  
Moderators: Dean Elliott, MD and Geoffrey G. Emerson, MD, PhD
- Management of Degenerative Retinoschisis Associated Retina Detachment, Abdallah Jeroudi, MD
- Supra Choroidal Buckling for Retinal Detachment 4y Data, Ehab El-Rayes, MD, PhD
- Are We Better Than We Were 10 Years Ago? An Analysis of Retinal Detachment Outcomes, Paul Hahn, MD, PhD

**9:05-9:45 AM** Break

**9:45-10:15 AM** Diabetic Retinopathy 3 Symposium  
Moderators: Vincent S. Hau, MD, PhD and Andrew Moshfeghi, MD
- Automated Diabetic Retinopathy Image Assessment Software: Study of Diagnostic Accuracy and Cost-Effectiveness of Available Systems, Adnan Tufail, MBBS, MD, FRCOphth
- Afibercept, Bevacizumab, or Ranibizumab for Diabetic Macular Edema: Two-Year Results from a Comparative Effectiveness Randomized Clinical Trial, John Wells, MD, FACS
- Automted Detection of Diabetic Retinopathy Lesions on Ultra-Widefield Pseudocolor Images, Srinivas Sadda, MD

**10:01** Late Phase Fluorescein Angiographic Findings Which Can Predict Capillary Dropout and Drug Treatment Which Can Lead to Capillary Preservation, Michael Trese, MD

**10:51** Discussion

**10:55-11:20 AM** Retinal Detachment Symposium  
Moderators: Dean Elliott, MD and Geoffrey G. Emerson, MD, PhD
- Management of Degenerative Retinoschisis Associated Retina Detachment, Abdallah Jeroudi, MD
- Supra Choroidal Buckling for Retinal Detachment 4y Data, Ehab El-Rayes, MD, PhD
- Are We Better Than We Were 10 Years Ago? An Analysis of Retinal Detachment Outcomes, Paul Hahn, MD, PhD

**11:20 AM-11:50 PM** Late-breaking Abstracts  
Moderators: Netan Choudhry, MD, FRCS(C) and Timothy G. Murray, MD, MBA
- Ocular Hypertension After Intravitreal Dexamethasone Sustained-Release Implant, Eric K. Chin, MD
- Retinal and Choroidal Vascular Changes in Eyes With Pseudoxefoliation Syndrome: A Comparative Study Using Optical Coherence Angiography, Cem Kucukerdonmez, MD
- Pneumatic Vitreolysis for Effective Treatment of Vitreomacular Traction Syndrome, Clement K. Chan, MD, FACS

**11:35 AM** Safety and Efficacy of Razumab (Ranibizumab)—the New Biosimilar in India: Our Experience, Srinivas Joshi, MD

**11:40 AM** 5-Year Outcomes After Initiating Anti-VEGF Therapy for Neovascular AMD in the Comparison of AMD Treatments Trials (CATT), Daniel F. Martin, MD

**11:45 PM** Discussion

**11:50 AM-1:05 PM** Lunch

**1:05-1:25 PM** Business Meeting—ASRS Members Only

**1:25-1:30 PM** PAT Survey Presentation, Thomas W. Stone, MD

**1:30-1:45 PM** Global Trends in Retina, Kourous A. Rezaei, MD  
Panelists:  
Americas: J. Fernando Arevalo, MD, FACS  
Africa/Middle East: Ehab N. El-Rayes, MD, PhD  
Asia/Pacific: Makoto Inoue, MD  
Europe: Praveen Patel, MBChir MA FRCSophth MD(Res)  
USA: Thomas W. Stone, MD and Glenn J. Jaffe, MD

**1:45-4:45 PM** Instructional Courses

**1:45-3:00 PM** Vitreoretinal Surgical Techniques (How Do I Do It).  
3D Video Panel, Ehab N. El-Rayes, MD  
Faculty: Carl C. Awh, MD; Steve T. Charles, MD; Carl Claes, MD; Pravin U. Dugel, MD; Tarek S. Hassan, MD; Makoto Inoue, MD; Kazuaki Kadonosono, MD; Kirk H. Packo, MD, FACS; Kourosh A. Rezaei, MD; Stanislao Rizzo, MD
1:45-3:00 PM  
Yerba Buena 13-15
Hands-On Introduction to Argus II Retinal Prosthesis Implantation, Ninel Z. Gregori, MD  
Faculty: J. Fernando Arevalo, MD, FACS; Paul Hahn, MD, PhD; Mark S. Humayun, MD, PhD; Lisa C. Olmos de Koo, MD, MBA; Aleksandra V. Rachitskaya, MD; Stanislao Rizzo, MD

1:45-3:00 PM  
Nob Hill ABC
Advances in the Treatment of Blinding Retinal Disease: Clinical Perspectives on Gene, Stem Cell, Cell-Based, Rescue Therapies and Drug Delivery, Suber Huang, MD, MBA  
Faculty: Amir H. Kashani, MD, PhD; Szilard Kiss, MD; Stephen R. Russell, MD; Steven D. Schwartz, MD; Karmen Trzupek, MS

3:00-3:30 PM  
Break

3:30-4:45 PM  
Nob Hill ABC
Retinal Genetics and Gene Therapy: Diagnosis, Clinical Management, and Genetic Intervention for Inherited Retinal Disease, Christine Kay, MD  
Faculty: Benjamin Bakall, MD, PhD; Janet L. Davis, MD; Jacque L. Duncan, MD; Ninel Z. Gregori, MD; Yannick I. Leiderman, MD, Kimberly E. Stepien, MD; Karmen Trzupek, MS

3:30-4:45 PM  
Yerba Buena 13-15
Duke Vitreoretinal Surgical Rounds, Lejla Vajzovic, MD  
Faculty: Thomas A. Albini, MD; Kimberly A. Drenser, MD; Andre V. Gomes, MD, PhD; J. Michael Jumper, MD; Tamer H. Mahmoud, MD, PhD; Prithvi Mruthyunjaya, MD; Cynthia Ann Toth, MD

3:30-4:45 PM  
Yerba Buena 10-12
Understanding the Business Side of Practicing Medicine: Coding, Finances and Medical-Legal Issues, Vincent S. Hau, MD  
Faculty: Netan Choudhry, MD, FRCS(C); Gary Edd Fish, MD, JD, MBA; Ankoor R. Shah, MD; W. Ben Utley, CFP®

6:30-9:00 PM  
Gala Dinner (Palace Hotel)

9:00-11:30 PM  
Umbo Lounge (Marriott Marquis)

SUNDAY, AUGUST 14

7:30-8:30 AM  
Continental Breakfast

8:00-9:25 AM  
Inflammatory and Infectious Diseases 1 Symposium  
Moderators: Thomas A. Albini, MD and Virgilio Morales-Canton, MD
8:00 Fundus Findings, SD-OCT Characteristics, Treatment and Outcomes of an Outbreak of Post-Viral Fever Retinitis in Southern India: Interim Results, Apoorva Ayachit, MS
8:08 Sarilumab for Non-infectious Uveitis (SARIL-NIU): Interim Results From the SATURN Study, David Callanan, MD
8:16 A Randomized, Masked, Controlled, Safety and Efficacy Study of an Injectable Fluocinolone Acetonide Intravitreal Insert in Non-Infectious Uveitis, Glenn Jaffe, MD
8:24 Discussion
8:28 Endophthalmitis After Vitrectomy Surgery: A Case Control Analysis, Samuel Kim, MD
8:36 Persistently Vitreous Culture-Positive Exogenous Endophthalmitis, Ella Leung, MD
8:44 The Effects of Intravitreal Sirolimus on Inflammation in Non-Infectious Intermediate Uveitis: Results from SAKURA Study 1, Pauline Merrill, MD
8:52 Discussion
8:56 Intravitreal Sirolimus Effects on Vitreous Haze and Visual Acuity in Noninfectious Uveitis of the Posterior Segment: 12-Month SAKURA Study 1 Results, Sunil Srivastava, MD
9:04 Suprachoroidal Administration of Triamcinolone Acetonide: Results of a Phase 2 Study of Patients With Non-infectious Uveitis, Steven Yeh, MD
9:12 Comparison of Microbiology and Visual Outcomes of Patients Undergoing Small-Gauge and 20-Gauge Vitrectomy for Endophthalmitis, David Almeida, MD, MBA, PhD
9:20 Discussion

9:25-9:45 AM  
Break

9:45-11:15 AM  
Inflammatory and Infectious Diseases 2 Symposium  
Moderators: Damien C. Rodger, MD, PhD and Steven Yeh, MD
9:45 Clinical Course and Management of a Cluster of Post Intravitreal Bevacizumab Injection Fungal Endophthalmitis in 14 Eyes, Mallika Goyal, MD
9:53 Suprachoroidal Administration of Triamcinolone Acetonide: Combined Results of Phase 1/2 and Phase 2 Clinical Studies, Seenu Hariprasad, MD
10:01 Treatment of Uveitic Macular Edema With Corticosteroids Utilizing a Novel Approach: Suprachoroidal Injector, Shree Kurup, MD
10:09 Discussion
10:13 Fundus Abnormalities in Microcephalic Newborns Presumable Related With Congenital Zika Virus Infection During Epidemic in Brazil, Mauricio Maia, MD, PhD
10:21 Intravitreal Aflibercept Injection for Choroidal Neovascularization Secondary to Presumed Ocular Histoplasmosis Syndrome (POHS): HANDLE Study 1
Year Results, Dennis Marcus, MD

10:29  Primary Outcomes of the Study of Safety, Tolerability, and Bioactivity of Tocilizumab in Patients With Noninfectious UVEITIS (The STOP-UVEITIS Study), Quan Nguyen, MD, MSc

10:37  Discussion

10:41  En Face Optical Coherence Tomography and OCT Angiography of MEWDS, David Sarraf, MD

10:49  Update on the Association of Intracameral Vancomycin and Hemorrhagic Occlusive Retinal Vasculitis (HORV), Andre Witkin, MD

10:57  Discussion

11:01  Qualitative and Quantitative Analysis of Optical Coherence Tomography Angiography in Patients With Retinal Vasculitis, Angela Bessette, MD

11:06  Quantification of Blood Flow in Retinal Vasculitis Using Optical Coherence Tomography Angiography, Monica Michelotti, MD

11:11  Discussion

11:15-11:45 AM Hereditary Retinal Disease and Genetics Symposium

Moderators: Hossein Ameri, MD, PhD, FRCSI, MRCOphth and Charles C. Wykoff, MD

11:15  Subthreshold Diode Micropulse Laser (SDM) as Retinal Protective Therapy for Non-age Related Retinal Degenerations, Jeffrey Luttrull, MD

11:23  Visual Acuity Sensitivity/Subgroup Analyses from a Phase 3 Trial of AAV2-hRPE65v2 (SPK-RPE65) in RPE65 Mutation-Associated Inherited Retinal Dystrophy, Stephen Russell, MD

11:31  North Carolina Macular Dystrophy (MCDRI): Mutations Found Affecting PRDM13, Kent Small, MD

11:39  Discussion

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