



22nd Annual Advanced Vitreoretinal Techniques & Technology (AVTT) Symposium

**Chicago, IL
August 20-22, 2021**

Symposium Organizers

William F. Mieler, MD (Chicago, IL)
Amani A. Fawzi, MD (Chicago, IL)

Symposium Faculty

Pooja Bhat, MD (Chicago, IL)
R.V. Paul Chan, MD, MSc, MBA (Chicago, IL)
Felix Y. Chau, MD (Chicago, IL)
Karl G. Csaky, MD, PhD (Dallas, TX)
Jay S. Duker, MD (Boston, MA)
Manjot K. Gill, MD (Chicago, IL)
Debra A. Goldstein, MD (Chicago, IL)
Robert A. Hyde, MD, PhD (Chicago, IL)
Peter K. Kaiser, MD (Cleveland, OH)
Jennifer J. Kang-Mieler, PhD (Chicago, IL)
Jeremy A. Lavine, MD, PhD (Chicago, IL)
Yannek I. Leiderman, MD, PhD (Chicago, IL)
Jennifer I. Lim, MD (Chicago, IL)
Ann-Marie Lobo, MD (Chicago, IL)
Alice T. Lyon, MD (Chicago, IL)
Kirk H. Packo, MD (Chicago, IL)
Srinivas R. Sadda, MD (Los Angeles, CA)
Lawrence J. Ulanski, Jr., MD (Chicago, IL)
Nadia K. Waheed, MD, MPH (Boston, MA)
George A. Williams, MD (Royal Oak, MI)

Special Guest Faculty

Tamara R. Fountain, MD
President of the American Academy of Ophthalmology 2021



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Friday, August 20, 2021

(THIS DAY IS OPEN TO VR FELLOWS, MEDICAL RETINA FELLOWS and RESIDENTS ONLY)

6:45 AM – 6:00 PM

Registration

6:45 AM – 7:00 PM

Exhibits

6:45 – 7:25 AM

Breakfast

7:25 AM

Welcome and Introduction

William F. Mieler, MD

7:30 – 10:00 AM

Best Practices in Ophthalmology (Part 1)

Moderator: William F. Mieler, MD

7:30 AM

Ophthalmology: Demographics, Practice Patterns, and Finances

William F. Mieler, MD

7:40 AM

The Art of Patient Satisfaction in a Retina Practice

Kirk H. Packo, MD

7:55 AM

The Art of Keeping your Referral Doctors Happy

Kirk H. Packo, MD

8:10 AM

AAO Leadership Development Program

R.V. Paul Chan, MD, MSc, MBA

8:20 AM

Evolving Changes in the ABO and Maintenance of Certification (MOC)

Felix Y. Chau, MD

8:30 AM

Global Ophthalmology

R.V. Paul Chan, MD, MSc, MBA



8:40 AM

Collaborating with Industry

Peter K. Kaiser, MD and Nadia K. Waheed, MD, MPH

8:50 AM

Participation in Clinical Trials and Scientific Boards-Is it Financially Feasible and Advisable?

Karl G. Csaky, MD, PhD and Jennifer I. Lim, MD

9:00 AM

Independent Medical Device Development-How Does this Work?

Yannek I. Leiderman, MD, PhD

9:10 AM

The Past, Present, and Future of Physician Payment

George A. Williams, MD

9:20 AM

Step Therapy and Prior Authorization

George A. Williams, MD

9:30 AM

Ethics Round Table Discussion

Moderators: Felix Y. Chau, MD; Jay S. Duker, MD; William F. Mieler, MD

Panelists: All Faculty

10:00 – 10:30 AM

Break

10:30 AM – 12:15 PM

Best Practices in Ophthalmology (Part 2)

Moderator: William F. Mieler, MD

10:30 AM

Discussion: Type of Practice-Pros and Cons of Academics, Private Practice, Hybrid Types of Practice

Moderators: Karl G. Csaky, MD, PhD and Jay S. Duker, MD

Panelists: All Faculty

10:45 AM

Discussion: Important Factors to Consider in Choosing a Practice: Contract Negotiations, Partners, Location, Changing Jobs, Marketing, Private Equity, and Innovations

Moderators: Srinivas R. Sadda, MD and George A. Williams, MD

Panelists: All Faculty

11:00 AM

Discussion: My First Job in a COVID World: How Different will Jobs be Moving Forward?

Moderator: Robert A. Hyde, MD, PhD

Panelists: All Faculty



11:15 AM

Risk Management and Malpractice for the Retinal Surgeon
Jay S. Duker, MD and Yannek I. Leiderman, MD, PhD

11:30 AM

Audits: Not If, But Rather When
George A. Williams, MD

11:40 AM

Should I Prepare for a Second Career after Medicine?
Jay S. Duker, MD

11:50 AM

Advocacy and Its Importance to You
Jennifer I. Lim, MD

12:00 PM

Maintaining a Balance between Work and Life: Avoiding Depression and Burnout
William F. Mieler MD

12:15 – 1:00 PM

Lunch and Industry Presentations (non-CME)

1:00 – 5:30 PM

Vitreotomy Fluidics and Instrument Demonstration, 3D Heads-Up Surgery, and Discussion of Challenging OCT, Medical, and Surgical Cases for the Vitreoretinal Fellows

Following an Introductory Lecture on Vitrectomy Fluidics, and 3D Heads-Up Surgery the Vitreoretinal Fellows and Residents will be separated into two groups for the interactive afternoon sessions.

1:00 PM

Vitreotomy Fluidics
Peter K. Kaiser, MD and Yannek I. Leiderman, MD, PhD

1:10 PM

3D Heads-Up Surgery
George A. Williams, MD



Group 1

1:20 – 3:20 PM

Wet Lab – Vitrectomy Fluidics and Instrument Demo (non-CME)

Jay S. Duker, MD
Manjot K. Gill, MD
Robert A. Hyde, MD, PhD
Peter K. Kaiser, MD
Jennifer I. Lim, MD
Alice T. Lyon, MD
Kirk H. Packo, MD
George A. Williams, MD

3:20 – 3:30 PM

Break

3:30 – 5:30 PM

Discussion of OCT, Medical, and Surgical Cases

Co-moderators: Jay S. Duker, MD and Yannek I. Leiderman, MD, PhD

Karl G. Csaky, MD, PhD
Amani A. Fawzi, MD
William F. Mieler, MD
Jeremy A. Lavine, MD, PhD
Ann-Marie Lobo, MD
SriniVas R. Sadda, MD
Nadia K. Waheed, MD, MPH

Group 2

1:20 – 3:20 PM

Discussion of OCT, Medical, and Surgical Cases

Co-moderators: Amani A. Fawzi, MD and William F. Mieler, MD

R.V. Paul Chan, MD, MSc, MBA
Karl G. Csaky, MD, PhD
Jeremy A. Lavine, MD, PhD
Yannek I. Leiderman, MD, PhD
Ann-Marie Lobo, MD
SriniVas R. Sadda, MD
Nadia K. Waheed, MD, MPH

3:20 – 3:30 PM

Break

3:30 – 5:30 PM

Wet Lab – Vitrectomy Fluidics and Instrument Demo (non-CME)

R.V. Paul Chan, MD, MSc, MBA
Peter K. Kaiser, MD
Manjot K. Gill, MD
Robert A. Hyde, MD, PhD
Jennifer I. Lim, MD
Alice T. Lyon, MD
Kirk H. Packo, MD
George A. Williams, MD

5:30 – 6:00 PM
Special Presentation

Money, MOM, Meetings and Moving On: AAO 2021
Tamara R. Fountain, MD
President of the American Academy of Ophthalmology 2021

6:00 – 7:00 PM

Reception



Saturday, August 21, 2021

6:45 AM – 5:30 PM
Registration

6:45 AM – 3:30 PM
Exhibits

6:45 – 7:25 AM
Breakfast

7:25 AM
Welcome and Introduction
William F. Mieler, MD

7:30 – 9:00 AM
Retinal Imaging and New Technology
Moderator: Amani A. Fawzi, MD

7:30 AM
OCTA Update and Interpretation
Jay S. Duker, MD

7:45 AM
Newer Imaging Modalities-Adaptive Optics, Swept Source OCT, and more
Nadia K. Waheed, MD, MPH

8:00 AM
New Developments and Usage of Peripheral OCT
Srinivas R. Sadda, MD

8:15 AM
Imaging of the Inner Retina in Alzheimer's Disease-How Does it Fit into our Clinical Practice
Amani A. Fawzi, MD

8:30 AM
Artificial Intelligence Applications in Retinal Diagnostics and Therapeutics
Yannek I. Leiderman, MD, PhD

8:45 AM
Debate #1: Artificial Intelligence is the Future of Retina

8:45 AM
Yes
Kirk H. Packo, MD



8:50 AM

No

SriniVas R. Sadda, MD

8:55 AM

Discussion: Analysis of Debate

9:00 – 9:30 AM

Vitreoretinal Surgery, Techniques, and Innovations (Part 1)

Moderator: Jennifer I. Lim, MD

9:00 AM

Tips and Tricks of Small Gauge Vitrectomy Surgery-What's Happening Inside the Eye that You Can't See?

Kirk H. Packo, MD

9:15 AM

Intraocular Tamponade: Perfluorocarbon Liquids, Silicone Oil, and Gases

Nadia K. Waheed, MD, MPH

9:30 – 10:00 AM

Break

10:00 – 11:15 AM

Vitreoretinal Surgery, Techniques, and Innovations (Part 2)

Moderator: Jennifer I. Lim, MD

10:00 AM

Yag Vitreolysis and/or Vitrectomy for Symptomatic Vitreous Floater: Is this Truly Beneficial?

Robert A. Hyde, MD, PhD

10:15 AM

Management of Rhegmatogenous RDs-The Role of Vitrectomy, Scleral Buckle, and Specialized Techniques

Jeremy A. Lavine, MD, PhD

10:30 AM

Reappraisal of Macular Hole Staging and Surgical Outcomes

Jay S. Duker, MD

10:45 AM

Management Options for Dislocated Lenses and IOLs

George A. Williams, MD

11:00 AM

Complex Diabetic Traction Retinal Detachment: 25- and 27-Gauge Techniques

Yannek I. Leiderman, MD, PhD



11:15 AM – 12:15 PM

Surgical Debates

Moderator: George A. Williams, MD

11:15 – 11:30 AM

Debate #2: In Epiretinal Membrane Surgery, is Removal of the ILM Essential?

11:15 AM

Yes

Yannek I. Leiderman, MD, PhD

11:20 AM

No

Robert A. Hyde, MD, PhD

11:25 AM

Discussion: Analysis of Debate

11:30 – 11:45 AM

Debate #3: The Best Treatment Option for a 30-year-old Phakic 3D Myope Patient with a Single Superiorly Located Retinal Tear and a Macula off RD with no PVR is With Which of the Following Options?

11:30 AM

Pneumatic Retinopexy

Jeremy A. Lavine, MD, PhD

11:35 AM

Scleral Buckle

Alice T. Lyon, MD

11:40 AM

Pars Plana Vitrectomy

R.V. Paul Chan, MD, MSc, MBA

11:45 AM – 12:00 PM

Debate #4: Epiretinal Implants are a Viable, Cost Effective Approach in the Treatment of Hereditary Retinal Diseases

11:45 AM

Yes

Jennifer I. Lim, MD

11:50 AM

No

Karl G. Csaky, MD, PhD



11:55 AM

Discussion: Analysis of Debate

12:00 – 12:15 PM

Debate #5: 3-D Digital Visualization in Vitreoretinal Surgery: Is it Truly Essential?

12:00 PM

Yes

George A. Williams, MD

12:05 PM

No

William F. Mieler, MD

12:10 PM

Discussion: Analysis of Debate

12:15 – 1:00 PM

Lunch and Industry Presentations (non-CME)

1:00 – 3:00 PM

Diabetic Retinopathy, Retinal Vascular Diseases and the Macula

Moderator: R.V. Paul Chan, MD, MSc, MBA

1:00 PM

Retinal Blood Flow and Biomarkers

Jennifer J. Kang-Mieler, PhD

1:15 PM

Recent Essential Take Home Points from the DRCRnet

Jennifer I. Lim, MD

1:30 PM

The Role of Corticosteroids in the Management of Chronic DME

Lawrence J. Ulanski, Jr., MD

1:45 PM

Future Management of DME and PDR-Drugs in the Pipeline

Peter K. Kaiser, MD

2:00 PM

Update of the Treatment of Central Serous Chorioretinopathy

Manjot K. Gill, MD

2:15 PM

The Expanding Spectrum of Systemic Medications and Retinal Toxicity

William F. Mieler, MD



2:30 – 3:00 PM

Special Presentation: The History of Retinal Surgery - Standing on the Shoulders of Giants

Kirk H. Packo, MD

3:00 – 3:30 PM

Break

3:30 – 4:00 PM

Diabetes Debates

Moderator: Yannek I. Leiderman, MD, PhD

3:30 – 3:45 PM

Debate #6: Moderate to Severe NPDR without Clinically Significant DME should be Treated Prophylactically with anti-VEGF Agents

3:30 PM

Yes

Nadia K. Waheed, MD, MPH

3:35 PM

Peter K. Kaiser, MD

3:40 PM

Discussion: Analysis of Debate

3:45 – 4:00 PM

Debate #7: In the Treatment of PDR, combining anti-VEGF with scatter PRP is preferred over Monotherapy (anti-VEGF or PRP)

3:45 PM

Yes

Felix Y. Chau, MD

3:50 PM

No

Manjot K. Gill, MD

3:55 PM

Discussion: Analysis of Debate

4:00 – 5:30 PM

Inflammation and Infection

Moderator: Ann-Marie Lobo, MD

4:00 PM

Infectious Posterior Uveitis Update

Ann-Marie Lobo, MD



4:15 PM

The Multiple Manifestations of Syphilitic Retinitis

Debra A. Goldstein, MD

4:30 PM

Molecular Diagnostic Testing in Uveitis

Ann-Marie Lobo, MD

4:45 PM

Non-infectious Posterior Uveitides

Pooja Bhat, MD

5:00 PM

Debate #8: Long-Acting Intravitreal Corticosteroids are better than Systemic Treatment in the Management of Non-Infectious Posterior Segment Uveitis

5:00 PM

Yes

Debra A. Goldstein, MD

5:05 PM

No

Ann-Marie Lobo, MD

5:10 PM

Discussion: Analysis of Debate

5:15 PM

Debate #9: OCT Angiography (OCTA) is Essential in the Management of White Dot Syndromes

5:15 PM

Yes

Pooja Bhat, MD

5:20 PM

No

Debra A. Goldstein, MD

5:25 PM

Discussion: Analysis of Debate

5:30 – 6:30 PM

Reception



Sunday, August 22, 2021

6:45 AM – 12:00 PM

Registration

6:45 – 7:25 AM

Breakfast

7:25 AM

Welcome and Introduction

William F. Mieler, MD

7:30 – 9:15 AM

Age-Related Macular Degeneration, Macula, Inherited Retinal Diseases, and Genetics

Moderator: Felix Y. Chau, MD

7:30 AM

The IRIS Registry, Big Data, and Artificial Intelligence in the Assessment and Management of AMD

George A. Williams, MD

7:45 AM

Most Promising Drugs in the Pipeline for Exudative AMD

Peter K. Kaiser, MD

8:00 AM

Forthcoming Treatment Options for Dry AMD-Is there Light at the End of the Tunnel?

Karl G. Csaky, MD, PhD

8:15 AM

Treatment Paradigms for Exudative AMD

Peter K. Kaiser, MD

8:30 AM

New Developments in Drug Delivery to the Posterior Segment

Jennifer J. Kang-Mieler, PhD

8:45 AM

The Current Role of Genetic Testing for AMD and Inherited Retinal Diseases (IRDs)

Robert A. Hyde, MD, PhD

9:00 AM

Gene Therapy Update for Inherited Retinal Diseases

Karl G. Csaky, MD, PhD



9:15 – 10:00 AM

AMD Debates

Moderator: Karl G. Csaky, MD, PhD

9:15 – 9:30 AM

Debate #9: Home Monitoring with OCT to Detect Onset of CNV has Improved Visual Acuity Outcomes

9:15 AM

Yes

Alice T. Lyon, MD

9:20 AM

No

Amani A. Fawzi, MD

9:25 AM

Discussion: Analysis of Debate

9:30 – 9:45 AM

Debate #10: OCTA is Essential for Clinical Practice in the Management of Choroidal Neovascularization

9:30 AM

Yes

Jay S. Duker, MD

9:35 AM

No

Lawrence J. Ulanski, Jr., MD

9:40 AM

Discussion: Analysis of Debate

9:45 – 10:00 AM

Debate #11: Once Approved, Sustained Slow-Release Drug Devices Will Replace Recurrent Intravitreal anti-VEGF Injections for Exudative AMD

9:45 AM

Yes

Jennifer J. Kang-Mieler, PhD

9:50 AM

No

George A. Williams, MD

9:55 AM

Discussion: Analysis of Debate



10:00 – 10:30 AM

Break

10:30 AM – 12:00 PM

Pediatric Retina and Intraocular Tumors

Moderator: Lawrence J. Ulanski, Jr., MD

10:30 AM

Reverse Masquerade Conditions

Jay S. Duker, MD

10:45 AM

Interesting Cases and Diagnoses that You Shouldn't Miss

R.V. Paul Chan, MD, MSc, MBA

11:00 AM

Retinopathy of Prematurity (ROP) 2021 Update

Felix Y. Chau, MD

11:15 AM

The Expanding Role of Telemedicine and Artificial Intelligence for Ophthalmology in the Post-COVID era

R.V. Paul Chan, MD, MSc, MBA

11:30 AM

Retinoblastoma Update 2021

Felix Y. Chau, MD

11:45 AM

Update of Uveal Melanoma Treatment

William F. Mieler, MD

12:00

Meeting Adjourned