



## **22<sup>nd</sup> 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 (Boston, MA)

George A. Williams, MD (Royal Oak, MI)



.....  
**Friday, August 20, 2021**

***NON-CME (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 Practice 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

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



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 Practice 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 with All Faculty

Moderator: 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, Innovations with All Faculty

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

Panelists: All Faculty

11:00 AM

Discussion: My First Job in a COVID World: How Different Will Jobs be Moving Forward? With All Faculty

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 – 6:00 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

1:15 PM

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



## **Group 1**

**1:30 – 3:30 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

**3:30 – 4:00 PM**

Break

**4:00 – 6:00 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

## **Group 2**

**1:30 – 3:30 PM**

### **Discussion of OCT, Medical, and Surgical Cases**

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

**3:30 – 4:00 PM**

Break

**4:00 – 6:00 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

**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

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

**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

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 Uveitidies

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 Ulanski, 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**