



North American Neuro-Ophthalmology Society

46th Annual Meeting

March 7– March 12, 2020

Omni Amelia Island Plantation • Amelia Island, FL

Saturday, March 7

8:00 am – 12:00 pm	NANOS Board Meeting	
2:00 pm – 7:30 pm	Registration/Help Desk	
3:00 pm – 4:30 pm	Neuro-Radiology Symposium	Amelia Ballroom
	<i>Manu S. Goyal, MD, MSc, Laurie A. Loevner, MD, and Aseem Sharma, MD</i>	
6:00 pm – 7:30 pm	Opening Reception (All are welcome!)	Magnolia Garden

Sunday, March 8

6:30 am – 7:30 am	Breakfast	Magnolia Ballroom
6:30 am – 5:30 pm	Registration/Help Desk	
7:30 am – 9:30 am	Frank B. Walsh (I)	Amelia Ballroom

This session is designed to present a wide variety of neuro-ophthalmic cases to an audience of physicians with varying neuroscience backgrounds who have a common intellectual interest in the broad range of conditions that impact the human visual pathways and ocular motor systems.

The format is a clinicopathologic conference. Clinical cases will be presented by neuro-ophthalmologists with comments by a neuroradiologist, neuropathologist and other selected experts. Neuroimaging, laboratory and surgical pathology data will help illustrate clinical point. Cases will be discussed from clinical, anatomic, radiologic and pathologic aspects with emphasis on diagnosis, pathophysiology and management. Audience participation is encouraged.

Upon completion of this course, participants should be able to: 1) recognize the varied presentations of neuro-ophthalmic disease 2) correlate the anatomic localization and histopathologic appearance with the clinical presentations 3) use radiologic procedures in diagnosis effectively 4) recognize both the value and limitations of neuropathology and 5) discuss newly described diseases and their connection to neuro-ophthalmology.

9:30 am – 10:00 am	Coffee break	
10:00 am – 12:00 pm	Frank B. Walsh (II)	Amelia Ballroom
12:00 pm – 12:30 pm	International Relations Committee Meeting	
12:00 pm – 12:20 pm	Lunch	Magnolia Ballroom
12:00 pm – 1:00 pm	Fellowship Directors Committee Meeting	
12:20 pm – 2:20 pm	Poster Session I: Clinical Highlights	
12:20 pm – 1:20 pm	Odd Numbered Posters	
1:20 pm – 2:20 pm	Even Numbered Posters	

2:20 pm – 3:00 pm	Business Meeting NANOS's Strategic Plan will be presented. All NANOS members are encouraged to attend.	Amelia Ballroom
3:00 pm – 5:15 pm	Frank B. Walsh (III)	Amelia Ballroom
5:30 pm – 6:00 pm	Walsh Committee Meeting	
5:45 pm – 6:45 pm	Members-in-Training Reception (All students, residents and fellows-in-training are encouraged to attend)	
6:45 pm – 7:45 pm	YONO Social Hour (this event is not financially supported by NANOS)	

Monday, March 9

6:00 am – 6:45 am	Yoga	
6:30 am – 7:30 am	Breakfast	Magnolia Ballroom
6:30 am – 7:30 am	Breakfast with the Novices	Magnolia Ballroom

Join us in the reserved YONO area at breakfast for table discussions led by senior members and /or YONOs to discuss topics relevant to aspiring or current YONOs.

6:30 am – 5:00 pm	Registration/Help Desk	
6:30 am – 7:30 am	NOVEL/Editorial Board/Curriculum Committee Meeting	Veranda AB
7:30 am – 9:30 am	Hot Topics	Amelia Ballroom
	<i>Moderators: Julie Falardeau, MD and Devin Mackay, MD</i>	

7:30 am – 7:35 am	Introduction
7:35 am - 7:55 am	I Have an Empty Sella, What Does This Mean? <i>Susan Mollan, MBChB, FRCOphth</i>
7:55 am – 8:15 am	DOA, Wolfram, Is It All the Same? <i>Nancy Newman, MD</i>
8:15 am – 8:50 am	AION Precipitants Nocturnal Hypotension, <i>Anthony Arnold, MD</i> Obstructive Sleep Apnea, <i>Clare Fraser, FRANZCO</i> PDE5 Inhibitors, <i>Howard Pomeranz, MD, PhD</i> Cataract Surgery, <i>Helen Danesh-Meyer, MD, PhD</i>
8:50 am – 9:10 am	Vessel Imaging for the Diagnosis of Giant Cell Arteritis, <i>François-Xavier Borruat, MD</i>
9:10 am – 9:30 am	Q&A

9:30 am – 10:00 am	Coffee with Exhibitors	Magnolia Ballroom
10:00 am – 12:00 pm	Telemedicine and Neuro-Ophthalmology 20/20 in 2020 <i>Moderators: Melissa W. Ko, MD, FAAN, CPE and Kevin Lai, MD</i>	

10:00 am – 10:10 am	Telemedicine 20/20 in 2020: How Far Have We Come, Where Are We Headed and How Is It Relevant to Neuro-Ophthalmology? <i>Melissa W. Ko, MD, FAAN, CPE</i>
10:10 am – 10:55 am	Panoramic View of a System-Wide Telemedicine Program at Johns Hopkins University <i>Ingrid Zimmer-Galler, MD</i>

10:55 am – 11:00 am	Teleconsultation in the ED for Neuro-Otology at JHU <i>Dan Gold, DO</i>	
11:00 am – 11:15 am	Telemedicine: Does It Pay to Play? Billing, Coding, Reimbursement <i>Ingrid Zimmer-Galler, MD and Kevin Lai, MD</i>	
11:15 am – 11:30 am	Telestroke: The Mayo Clinic Model <i>Michelle P. Lin, MD, PhD</i>	
11:30 am – 11:35 am	Neuro-Ophthalmology Digital Consultations: The Stanford Model <i>Heather Moss, MD, PhD</i>	
11:35 am – 11:40 am	Tele-Neuro-Ophthalmology 20/20: Is It Time? <i>Melissa W. Ko, MD, FAAN, CPE</i>	
11:40 am – 12:00 pm	Panel Discussion/Q&A	
12:15 pm – 1:00 pm	Working lunch (advanced registration required)	
12:15 pm – 1:00 pm	Update ABO Certification/Re-certification, <i>Jane Bailey, MD, and Lanning Kline, MD</i>	
12:15 pm – 1:00 pm	Update ABPN Certification/Re-certification, <i>Christopher Glisson, DO, MS, FAAN and Heather Moss, MD, PhD</i>	
1:00 pm – 2:30 pm	WIN Symposium on Leadership	
2:30 pm – 4:45 pm	Coding and Billing Symposium (advanced registration required) <i>Moderators: Mark Moster, MD and John Pula, MD</i>	
2:30 pm – 4:45 pm	Coding and Billing <i>Sue Vicchilli, AAO Director, Coding and Reimbursement</i>	
2:30 pm – 4:45 pm	International Symposium	Cumberland Ballroom
5:00 pm – 7:00 pm	Scientific Platform Session I	Magnolia Ballroom

Tuesday, March 10

6:00 am – 6:45 am	Yoga	
6:30 am – 7:30 am	Breakfast	Magnolia Ballroom
6:30 am – 5:00 pm	Registration/Help Desk	
6:30 am – 7:30 am	JNO Editorial Board Meeting	
7:30 am – 9:30 am	Scientific Platform Session II	Amelia Ballroom
9:30 am - 10:00 am	Coffee with Exhibitors	Magnolia Ballroom
10:00 am – 12:00 pm	Scientific Platform Session III	Amelia Ballroom
12:00 pm – 12:10 pm	JNO Update, <i>Laura Balcer, MD, MSCE</i>	Amelia Ballroom
12:10 pm – 6:00 pm	Afternoon free for activities	
6:00 pm – 6:30 pm	Meet the Legends of Neuro-Ophthalmology	
6:30 pm – 8:30 pm	Poster Session II: Scientific Advancements (light dinner buffet included)	
6:30 pm – 7:30 pm	Odd Numbered Posters	
7:30 pm – 8:30 pm	Even Numbered Posters	
8:30 pm – 9:30 pm	Abstract Committee Meeting	

Wednesday, March 11

6:30 am – 7:30 am	Breakfast	Magnolia Ballroom
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6:30 am – 7:30 am **Breakfast with the Novices** **Magnolia Ballroom**

Join us in the reserved YONO area at breakfast for table discussions led by senior members and /or YONOs to discuss topics relevant to aspiring or current YONOs.

6:30 am – 7:30 am **CME Committee Meeting**
6:30 am – 5:30 pm **Registration/Help Desk**
7:30 am – 9:30 am **Skullbase Disorders and Surgical Approaches** **Amelia Ballroom**
Moderators: M. Tariq Bhatti, MD and Vivek Patel, MD

7:30 am –7:35 am **Welcome and Symposium Overview** *M. Tariq Bhatti, MD*
7:35 am – 8:15 am **“The Invisible Anatomy;” Exo- and Endophytic Neural Network**
Amin Kassam, MD
8:15 am – 8:35am **Case 1**
Superior Orbital Fissure Mass *Vivek Patel, MD*
Surgical Approach *Amin Kassam, MD*
Q&A/Discussion *M. Tariq Bhatti, MD and Vivek Patel, MD*
8:35 am – 8:55 am **Case 2**
Chiasmal Compression *M. Tariq Bhatti, MD*
Surgical Approach *Amin Kassam, MD*
Q&A/Discussion *M. Tariq Bhatti, MD and Vivek Patel, MD*
8:55 am – 9:15 am **Case 3**
Large Acute Brainstem Hematoma *Vivek Patel, MD*
Surgical Approach *Amin Kassam, MD*
Q&A/Discussion *M. Tariq Bhatti, MD and Vivek Patel, MD*
9:15 am – 9:25 am **New Frontiers: Vertical Rami of the Superior Longitudinal**
Fasciculus and the White Matter Chassis: A Functional
Anatomic Perspective of the Subcortical Neural Network *Amin*
Kassam, MD
9:25 am – 9:30 am **Closing Remarks, Review** *M. Tariq Bhatti, MD and Vivek Patel,*
MD

9:30 am – 10:00 am **Coffee with Exhibitors**
10:00 am – 11:25 am **2020: What’s New in Low Vision** **Amelia Ballroom**
Moderators: Marie D. Acierno, MD and Joseph F. Rizzo III, MD

10:00 am – 10:25 am **Visual Neuro-Rehabilitative Approaches: Rehabilitative**
Strategies and the Role in How One Develops, Adapts, and
Responds to Injury in the Visual System *Lotfi B. Merabet, OD,*
PhD, MPH
10:25 am – 10:50 am **Virtual Reality: How to Assess Functional Vision Performance**
in Patients With Neurological Injury *Lotfi B. Merabet, OD, PhD,*
MPH
10:50 am – 11:05 am **Visual Prosthetics: Enabling Technology to Give Sight to the**
Visually Impaired *Joseph F. Rizzo III, MD*
11:05 am – 11:15 am **Visual Rehabilitation: How Do We Empower Our Visually**
Impaired Patients? *Marie D. Acierno, MD*
11:15 am – 11:25 am **Discussion/Q&A**

11:25 am – 12:00 pm	Jacobson Lecture: Optic Neuritis: Past, Present and Future <i>Speaker: Steven Galetta, MD</i>	Amelia Ballroom
12:00 pm – 12:15 pm	Announcements/NOVEL Updates	Amelia Ballroom
12:00 pm – 12:05 pm	Announcements, Valerie Biousse, MD	
12:05 pm – 12:15 pm	NOVEL Update, Kathleen Digre, MD	
12:15 pm – 1:15 pm	Lunch Break	
12:15 pm – 1:45 pm	Research Committee Luncheon	
1:15 pm – 3:15 pm	3D Anatomy	Amelia Ballroom
	<i>Moderators: M. Tariq Bhatti, MD and Vivek Patel, MD</i>	
1:15 pm – 3:15 pm	3D Anatomy, Amin Kassam, MD	
3:30 pm – 5: 15 pm	Skullbase Surgical Approaches. “Live” Dissection, Amin Kassam, MD	Cumberland Ballroom
6:30 pm – 12:00 am	Banquet	Amelia Ballroom

Join colleagues for a fun, casual evening of socializing, dining and dancing at the NANOS Annual Banquet! This event is complimentary for registered attendees; guests must purchase a ticket.

Thursday, March 12

6:30 am – 7:30 am	Breakfast	Magnolia Ballroom
6:30 am – 7:30 am	Breakfast with the Novices	Magnolia Ballroom

Join us in the reserved YONO area at breakfast for table discussions led by senior members and /or YONOs to discuss topics relevant to aspiring or current YONOs.

6:30 am – 12:00 pm	Registration/Help Desk	
7:30 am – 9:30 am	New Treatments in Neuro-Ophthalmology- 2020 Trends	Amelia Ballroom
	<i>Moderators: Brad Katz, MD, PhD and Ahmara Ross, MD, PhD</i>	
7:30 am – 7:50 am	New Paradigm for the Treatment of Thyroid Eye Disease, Prem Subramanian, MD, PhD	
7:50 am – 8:10 am	Neuro-Ophthalmic Consequences of Immune Therapy, Lynn Gordon	
8:10 am – 8:35 am	Optic Nerve Regeneration: the Future (Principles; Explanation of How It Works and Areas of Research Including Electrical Stimulation), Kim Gokoffski, MD, PhD	
8:35 am – 9:00 am	Is It Time for Stem Cell Treatment? Y. Joyce Liao, MD, PhD	
9:00 am – 9:30 am	Gene Therapy: What Is It Used For? – Review Existing Approved Treatments in General and Highlight Eye/Optic Nerve – Patrick Yu-Wai-Man, MD, PhD	

9:30 am – 10:00 am
10:00 am – 12:00 pm

Coffee break
Strabismus: Image? Operate?

Moderators: Shannon Beres, MD and Paul H. Phillips, MD

10:00 am – 10:14 am

Child With Crossed Eyes Since Infancy: Do I Image? Do I Operate? *Lauren Ditta, MD*

10:14 am – 10:28 am

Child With Acquired ET: Do I Image? Do I Operate?
Jane Edmond, MD

10:28 am – 10:42 am

Adult With Acquired Diplopia at Distance: Do I Image? Do I Operate? *Mitchell Strominger, MD*

10:42 am – 10:56 am

Adult With Acquired Vertical Diplopia: Do I Image? Do I Operate? *Nicholas Volpe, MD*

10:56 am – 11:10 am

Adult With Acquired Oblique Diplopia: Do I Image? Do I Operate? *Hilda Capo, MD*

11:10 am – 11:24 am

Teenager With Acquired Strabismus: Do I Image? Do I Operate? *R. Michael Siatkowski, MD*

11:24 am – 11:38 am

Baby With Tonic Downgaze: Do I Image? Do I Operate? *Ellen Mitchell*

11:38 am – 12:00 pm

Q&A