



North American Neuro-Ophthalmology Society

# 45th Annual Meeting

March 16– March 21, 2019

Red Rock Casino, Resort & Spa • Las Vegas, Nevada

## Saturday, March 16

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8:00 am -12:00 pm	<b>NANOS Board Meeting</b>	
3:00 pm – 4:30 pm	<b>Optional Symposium- Orbital and Sellar Lesions-Neuro-radiology Pearls and Pitfalls</b>	Veranda AB
6:00 pm - 7:30 pm	<b>Opening Reception (All are welcome!)</b>	Pavilion Ballroom

## Sunday, March 17

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6:00 am – 6:45 am	<b>Yoga</b>	
6:30 am – 7:30 am	<b>Breakfast</b>	
7:30 am – 9:30 am	<b>Frank B. Walsh</b>	Red Rock Ballroom
9:30 am – 10:00 am	<b>Coffee break</b>	
10:00 am – 12:00 pm	<b>Frank B. Walsh (II)</b>	
12:00 pm – 12:30 pm	<b>Lunch (in poster area)</b>	
12:00 pm – 12:30 pm	<b>Fellowship Directors/Committee Meeting</b>	
12:30 pm – 1:30 pm	<b>International Relations Committee</b>	
12:30 pm – 2:30 pm	<b>Poster Session I: Clinical Highlights</b>	
2:30 pm – 3:00 pm	<b>Business Meeting</b>	
3:00 pm – 5:30 pm	<b>Frank B. Walsh</b>	Red Rock Ballroom
5:45 pm – 6:15 pm	<b>Walsh Committee Meeting</b>	
6:00 pm – 7:30 pm	<b>Members in Training Reception</b>	

## Monday, March 18

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6:00 am – 6:45 am	<b>Yoga</b>	
6:30 am – 7:30 am	<b>Breakfast</b>	
6:30 am – 7:30 am	<b>NOVEL Editorial Board/Curric Committee Mtg</b>	
7:30 am – 9:30 am	<b>New Information I Should Know</b>	Red Rock Ballroom
	<i>Moderators: Christian Lueck, PhD, FRACP, FAAN and Claire</i>	

*Sheldon, MD, PhD*

7:30 am – 7:42 am	<b>Neuro-Immunology, a new specialty- classifications of disorders, <i>Jeff Bennett, MD, PhD</i></b>
7:42 am – 8:09 am	<b>Autoimmune encephalitis: GFAP, DPPX, other, <i>Eric Eggenberger, DO, FAAN</i></b>
8:09 am – 8:36 am	<b>Ganglioside-related disorders (GQ1b; Miller-Fisher syndrome, CANOMAD), <i>Umapathi Thirugnanam, MBBS</i></b>
8:36 am – 9:03 am	<b>New treatments for multiple sclerosis, <i>Sashank Prasad, MD</i></b>
9:03 am – 9:30 am	<b>New treatments for migraine, <i>Kathleen Digre, MD</i></b>
<b>9:30 am – 10:00 am</b>	<b>Coffee with Exhibitors</b>
<b>10:00 am – 12:00 pm</b>	<b>Hot Topics: How do I Treat?</b> <i>Moderators: Vivek Patel, MD and Klara Landau, MD</i>
10:00 am – 10:24 am	<b>Ischemic optic neuropathy from GCA, <i>Fiona Costello, MD, FRCP</i></b>
10:24 am – 10:48 am	<b>Ocular myasthenia gravis, <i>Michael Lee, MD</i></b>
10:48 am – 11:12 am	<b>MOG positive optic neuritis, <i>John Chen, MD, PhD</i></b>
11:12 am – 11:36 am	<b>Headaches in IIH, <i>Deborah Friedman, MD, MPH</i></b>
11:36 am – 12:00 pm	<b>Radiation optic neuropathy, <i>Norah Lincoff, MD</i></b>
<b>12:00 pm – 1:00 pm</b>	<b>Lunch Break</b>
<b>12:00 pm – 1:00 pm</b>	<b>WIN (lunch provided)</b>
<b>1:00 pm – 3:00 pm</b>	<b>Scientific Platform Session I</b>
<b>3:00 pm - 5:00 pm</b>	<b>YONO Forum</b>

## Tuesday, March 19

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6:00 am – 6:45 am	Yoga	
6:30 am – 7:30 am	Breakfast	
6:30 am – 7:30 am	JNO Editorial Board Meeting	
7:30 am – 10:00 am	Scientific Platform Session II	Red Rock Ballroom
9:30 am – 10:00 am	Coffee with Exhibitors	
10:00 am – 12:00 pm	Scientific Platform Session III	Red Rock Ballroom
12:00 pm – 3:00 pm	Poster Session II: Scientific Advancements	
3:00 pm – 4:00 pm	Abstract Committee Meeting	

## Wednesday, March 20

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6:30 am – 7:30 am	Breakfast
6:30 am – 7:30 am	CME Committee Meeting
7:30 am – 9:30 am	Retinal Microvascular Changes and

## Neurologic Disorders

Red Rock Ballroom

Moderators: Beau Bruce, MD, PhD and Oana Dumitrascu, MD, MSc

Invited Speaker: Tien Y Wong, MBBS, MMED, MPH, PhD, FRCSE, FRANZCO, FAMS

Retinal microvascular changes are increasingly recognized as diagnostic and prognostic indicators in neurologic diseases. In this session, a comprehensive overview of the epidemiology of retinal microvascular changes in relation to acute and chronic neurologic diseases will be reviewed and established and developing methodologies of evaluating those changes will be discussed. Upon completion of this session, participants should be able to: 1) describe the diagnostic and prognostic significance of retinal microvascular changes in acute and chronic neurologic diseases, 2) discuss state-of-the-art concepts in hypertensive retinopathy, and 3) describe current and emerging technologies for evaluating the retinal microvasculature.

7:30 am - 7:45 am	<b>Retinal Vascular Changes in Acute Neurological Disorders,</b> <i>Beau Bruce, MD, PhD</i>	
7:45 am - 8:25 am	<b>Current Concepts in Retinal Vascular Imaging,</b> <i>Tien Wong, MBBS, MMED, MPH, PhD, FRCSE, FRANZCO, FAMS</i>	
8:25 am - 8:40 am	<b>Retinal Vascular Abnormalities in Cerebrovascular and Neurodegenerative Disorders,</b> <i>Oana Dumitrascu, MD, MSc</i>	
8:40 am - 9:00 am	<b>Artificial intelligence in Retinal Imaging,</b> <i>Tien Wong, MD, PhD, MBBS, MMED, MPH, PhD, FRCSE, FRANZCO, FAMS</i>	
9:00 am - 9:30 am	<b>Q&amp;A</b>	
<b>9:30 am – 10:00 am</b>	<b>Coffee with exhibitors</b>	
<b>10:00 am – 11:25 am</b>	<b>Dizziness, vertigo: just tell me what to do!</b> <b>Red Rock Ballroom</b> <i>Moderators: Dan Gold, DO and David Newman-Toker, MD, PhD</i>	
10:00 am - 10:30 am	<b>Dizziness &amp; Vertigo in the ED - When to Worry, When to Image, When to Admit,</b> <i>David Newman-Toker, MD, PhD</i>	
10:30 am - 11:15 am	<b>Dizziness &amp; Vertigo in the Clinic - When to Test, When to Treat, When to Refer,</b> <i>Dan Gold, DO</i>	
11:15 am - 11:25 am	<b>Q&amp;A</b>	
<b>11:25 am – 12:00 pm</b>	<b>Jacobson Lecture: Leber hereditary optic neuropathy: From bedside to bench to bedside</b> <b>Red Rock Ballroom</b> <i>Speaker: Nancy Newman, MD</i>	
<b>12:00 pm – 12:30 pm</b>	<b>Announcements/JNO/NOVEL Updates</b> <b>Red Rock Ballroom</b>	
<b>12:30 pm- 2:00 pm</b>	<b>Lunch Break</b>	
<b>12:30 pm- 2:00 pm</b>	<b>Research Committee Luncheon</b>	
<b>2:00 pm – 3:45 pm</b>	<b>Optional Symposium- EOM/Vestibular Testing Skills Transfer</b> <b>Red Rock Ballroom</b>	
<b>2:00 pm - 3:45 pm</b>	<b>Optional Symposium- Headache Medicine Update- What a Neuro-ophthalmologist Needs to Know</b> <b>Pavilion Ballroom</b>	
<b>3:45 pm – 5:30 pm</b>	<b>Optional Symposium- Reading an OCT like we read an MRI</b> <b>Red Rock Ballroom</b>	
<b>3:45 pm - 5:30 pm</b>	<b>Optional Symposium- Worldwide wonders: cases defining the international language of Neuro-ophthalmology</b> <b>Pavilion Ballroom</b>	
<b>5:45 pm – 6:15 pm</b>	<b>CPNO</b>	
<b>6:30 pm – 12:00 am</b>	<b>Banquet</b> <b>Charleston Ballroom</b>	

## Thursday, March 21

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<b>6:30 am – 7:30 am</b>	<b>Breakfast</b>
<b>7:30 am – 9:30 am</b>	<b>How do I Evaluate? Adult versus kid: Does it Matter?</b> <b>Red Rock Ballroom</b> <i>Moderator: Stacy Pineles, MD, MS and Tony Arnold, MD</i>
7:30 am – 7:50 am	<b>Horner syndrome</b> , <i>Aki Kawasaki, MD, PhD and Grant Liu, MD</i>
7:50 am – 8:10 am	<b>Isolated optic neuritis</b> , <i>Chris Glisson, DO, MS and Jason Peragallo, MD</i>
8:10 am – 8:40 am	<b>Third nerve palsy</b> , <i>Karl Golnik, MD, MEd and Paul Phillips, MD</i>
8:40 am – 9:10 am	<b>Papilledema</b> , <i>Collin McClelland, MD and Robert Avery, DO, MSCE</i>
9:00 am – 9:30 am	<b>General Discussion</b>
<b>9:30 am – 10:00 am</b>	<b>Coffee break</b>
<b>10:00 am – 12:00 pm</b>	<b>Current concepts in eye movement disorders In kids: Case-based potpourri</b> <b>Red Rock Ballroom</b> <i>Moderators: Mark Borchert, MD and Gena Heidary,</i>
10:00 am - 10:20 am	<b>Essential Infantile Esotropia</b> , <i>Michael Brodksy, MD</i>
10:20 am - 10:35 am	<b>Congenital Oculomotor Apraxia</b> , <i>Jane Edmond, MD</i>
10:35 am - 10:50 am	<b>Duane Syndrome</b> , <i>Mark Borchert, MD</i>
10:50 am - 11:10 am	<b>Congenital Cranial Dysinnervation Disorders</b> , <i>Gena Heidary, MD, PhD</i>
11:10 am - 11:25 am	<b>Moebius Syndrome</b> , <i>Shannon Beres, MD</i>
11:25 am - 11:45 am	<b>Neuromuscular Disorders affecting Eye Movement in Children</b> , <i>Veeral Shah, MD, PhD</i>
11:45 am - 12:00 pm	<b>Panel Discussion and Audience Questions</b>