

# 39<sup>TH</sup> ANNUAL NANOS

## *Meeting*

February 9-14, 2013  
Snowbird Ski Resort - Snowbird, UT



# 39<sup>th</sup> Annual NANOS Meeting

## February 9-14, 2013 | Snowbird, UT

### Saturday, February 9

#### LOCATION

**12:00 p.m. – 8:30 p.m. Registration**

**Ballroom Lobby**

**12:00 p.m. – 5:00 p.m. NANOS Board Meeting**

**Superior**

**1:00 p.m. – 4:00 p.m. Clinical Trials 101 [3 CME]**

**Magpie AB**

Presenters: Benjamin Frishberg MD, Deborah Friedman, MD and Ann Stoutenburg, CCRC

Description: This course is designed for all clinicians who are interested in participating in multicenter clinical trials. We will discuss the value of clinical research, basics concepts of study design to consider when deciding whether proposed trial has scientific merit, the responsibilities of becoming a site investigator and the concept of equipoise. Participants will learn about the infrastructure needed for a successful clinical trial site, protection of research subjects, budgeting and contracting. The course is directed toward practicing physicians in academic medicine and private practice, as well as trainees, with limited or no background/experience in clinical research.

At the conclusion of this program, participants should be able to: 1) Analyze a study protocol prior to participation in a trial; 2) Describe the importance of clinical equipoise as a site investigator; 3) List the responsibilities of being a site investigator; 4) Define the basic elements of a clinical site budget; 5) Understand IRB requirements and the contracts process; and 6) Determine the infrastructure needed to be a successful site.

*This course is designed to procure the following desirable physician attributes: Employ evidence-based practice; work in interdisciplinary teams*

**6:30 p.m. – 8:00 p.m. Opening Reception (all are welcome)**

**Golden Cliff**

### Sunday, February 10

**6:00 a.m. – 6:45 a.m. Yoga Class**

**Yoga Studio (Level 10)**

**6:30 a.m. – 5:30 p.m. Registration**

**Ballroom Lobby**

**6:30 a.m. – 7:45 a.m. Breakfast**

**Ballroom 1/Foyers**

**6:30 a.m. – 3:30 p.m. Exhibit Hall**

**Ballroom 1**

**8:00 a.m. – 10:00 a.m. Guest Lounge**

**The Aerie Restaurant**

**7:45 a.m. – 5:00 p.m. FRANK B. WALSH SESSION [7.25 CME]**

**Ballrooms 2-3**

*Chair: Valérie Biousse, MD*

*Neuroradiologist: Pat Hudgins, MD*

*Neuropathologist: Daniel J. Brat, MD, PhD*

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. Necropsy, surgical pathology, and neuroimaging will help illuminate clinical points. Cases will be discussed from clinical, anatomic, radiologic and pathologic aspects with emphasis on diagnosis, pathophysiology and management. Audience participation is encouraged.

At the conclusion of this program, 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) Effectively use radiologic procedures in diagnosis; 4) Recognize both the value and limitations of neuropathology; and 5) Discuss newly described diseases and their connection to neuro-ophthalmology.

*This course is designed to procure the following desirable physician attributes: Medical knowledge; work in interdisciplinary teams*

# 39<sup>th</sup> Annual NANOS Meeting

## February 9-14, 2013 | Snowbird, UT

### Sunday, February 10 (continued)

11:50 a.m. – 1:10 p.m.	Lunch	Ballroom 1/Foyers
12:00 p.m. – 1:00 p.m.	Membership Retention and Recruitment Meeting	Superior A
5:15 p.m. – 5:45 p.m.	Frank B. Walsh Committee Meeting	Superior A
5:15 p.m. – 5:45 p.m.	Fellowship Directors Meeting	Superior B
5:45 p.m. – 6:15 p.m.	Professional Standards (Fellowship) Committee Meeting	Superior B
5:30 p.m. – 6:30 p.m.	Student/Resident/Fellow Program and Reception	Wasatch
Evening	Dinner on your own	

### Monday, February 11

6:00 a.m. – 6:45 a.m.	Yoga Class	Yoga Studio (Level 10)
6:30 a.m. – 12:30 p.m.	Registration	Ballroom Lobby
6:30 a.m. – 7:30 a.m.	Breakfast	Ballroom 1/Foyers
6:30 a.m. – 12:15 p.m.	Exhibit Hall	Ballroom 1
7:00 a.m. – 7:30 a.m.	NOVEL Editorial & Curriculum Committee Meeting	White Pine
7:00 a.m. – 7:30 a.m.	Finance Committee Meeting	Little Pine
8:00 a.m. – 10:00 a.m.	Guest Lounge	The Aerie Restaurant
7:30 a.m. – 9:40 a.m.	Journal Club: Lessons from Recent Clinical Trials in Other Specialties [2.25 CME] <i>Moderators: M. Tariq Bhatti, MD &amp; Sashank Prasad, MD</i>	Ballrooms 2-3

Staying abreast of current clinical research within and peripherally related to one's specialty is an important goal for the practicing clinician. This symposium will provide a critical evaluation of recently performed clinical trials from subspecialties that are particularly germane to the neuro-ophthalmologist. The symposium will provide an update on important trials in the fields of retina, orbital disease, demyelinating disease, cerebrovascular disease, and headache disorders. These important studies will be considered in the context of cases that illustrate common clinical dilemmas that all of us in neuro-ophthalmology face.

At the conclusion of this program, participants should be able to: 1) Know the recent clinical trials of intravitreal therapies for retinal diseases; 2) Know the latest clinical trials in the management of orbital disease; 3) Have an understanding of the new and emerging oral disease modifying therapies in multiple sclerosis; 4) Outline recent progress in acute stroke and preventative stroke management; and 5) Know about the recent advances in the treatment of headache syndromes.

*This course is designed to procure the following desirable physician attributes: Employ evidence-based practice; work in interdisciplinary teams; systems-based practice*

7:35 – 7:40 a.m.	Journal Club: Introduction, <i>M. Tariq Bhatti, MD</i>	
7:40 – 8:20 a.m.	Journal Club: Treatment of Retinal Disorders, <i>Guy Jirawuthiworavong, MD, MA</i>	
	Journal Club: Treatment of Orbital Disorders, <i>M. Tariq Bhatti, MD</i>	
8:20 – 9:35 a.m.	Journal Club: Therapies for Multiple Sclerosis, <i>Sashank Prasad, MD</i>	
	Journal Club: Prevention and Treatment of Cerebrovascular Disease, <i>Renee B. Van Stavern, MD</i>	
	Journal Club: Treatment of Migraine, <i>Patricia Johnston McNussen, MD</i>	
9:35 – 9:40 a.m.	Closing Remarks / Question & Answer	
9:40 a.m. – 10:00 a.m.	Coffee Break	Ballroom 1

**39<sup>th</sup> Annual NANOS Meeting**  
**February 9-14, 2013 | Snowbird, UT**

**Monday, February 11 (continued)**

**10:00 a.m. – 12:00 p.m. Treatment in Neuro-Ophthalmology - That's Hot! [2 CME]**

**Ballrooms 2-3**

*Moderators: Steven Galetta, MD & Peter A. Quiros, MD*

This symposium will detail the emerging and established treatment options for several common inflammatory disorders encountered in neuro-ophthalmology practice including giant cell arteritis (GCA), sarcoidosis and neuro-myelitis optica (NMO). The treatment approach of these disorders can be controversial and new therapeutic paradigms will be discussed by experts in the field. In addition, the current status of stem cell treatment for optic nerve disorders will be examined. Audience participation will be emphasized and debate will be encouraged. At the conclusion of this symposium, the attendees should be able to: 1) Understand the current treatment options for GCA, Sarcoidosis and NMO; 2) Know the emerging treatment options for GCA, Sarcoidosis and NMO; and 3) Understand the current status of stem cell therapy for optic nerve disorders.

*This course is designed to procure the following desirable physician attributes: Medical knowledge, employ evidence-based practice*

10:00 – 10:30 a.m. **What's Hot in The Treatment of Giant Cell Arteritis**, *Valérie Biousse, MD*

10:30 – 11:00 a.m. **Therapy of Neuro/Neuro-Ophthalmic Sarcoid**, *Larry Frohman, MD*

11:00 – 11:30 a.m. **Treatment of Neuromyelitis Optica**, *Jeffrey L. Bennett, MD, PhD*

11:30 – 12:00 p.m. **Should I Recommend Stem Cell Therapy to my Patients With Vision Loss?**

*Y. Joyce Liao, MD, PhD*

**12:15 p.m. – 12:45 p.m. Archives Committee Meeting**

**White Pine**

**12:15 p.m. – 1:30 p.m. Women in Neuro-Ophthalmology (WIN) Meeting**

**Magpie**

A deli-style lunch will be available for \$28, however, all are welcome to attend even without the purchase of lunch.

**1:30 p.m. – 4:30 p.m. Neuro-Ophthalmology Workshop: Imaging [3 CME]**

**Ballrooms 2-3**

*Presenters: Kathleen Digre, MD, Pat Hudgins, MD, Karen Salzman, MD & Anne G. Osborn, MD*

Neuro-ophthalmologists depend on neuroradiology to confirm findings and help establish diagnoses. Challenges to making the correct diagnosis include ordering the right type of scan to diagnose a problem, subtleties of imaging, recognizing artifacts on magnetic resonance imaging, and knowing the differential diagnosis of a finding. This course is designed to assist the neuro-ophthalmologist addressing these challenges. Using a case-based format, experienced neuroradiologists, Drs. Anne G. Osborn, Pat Hudgins and Karen Salzman will take the neuro-ophthalmologists through challenging cases, diagnoses, and imaging conundrums. There will be a pre-test, series of cases with discussion, unknowns, and a potential post-test.

At the conclusion of this symposium, the attendees should be able to: 1) Recognize common artifacts that can occur on MR imaging of the orbits and visual pathways, and know how the artifacts can mimic a disease process; 2) Be familiar with pitfalls in MR and CT imaging of the orbits and visual pathways, and how to avoid making misinterpretations; and 3) Be familiar with advances in state of the art imaging of the orbits and visual pathways.

*This course is designed to procure the following desirable physician attributes: Work in interdisciplinary teams; practice-based learning and improvement; utilize informatics*

**5:00 p.m. – 7:00 p.m. SCIENTIFIC PLATFORM PRESENTATIONS: SESSION I [2 CME]**

**Ballrooms 2-3**

**7:15 p.m. – 11:30 p.m. Dinner at the Movies**

**Ballrooms 2-3**

A buffet dinner will be served at 7:15 p.m. for those that purchased this option in the registration process. Movies will start at 7:45 p.m. Two movies will be shown: *The Producers* and *Duck Soup*. Popcorn for everyone and a cash bar will be available. All attendees and guests are welcome.

# 39<sup>th</sup> Annual NANOS Meeting

## February 9-14, 2013 | Snowbird, UT

### Tuesday, February 12

<p>6:00 a.m. – 6:45 a.m. Yoga Class</p> <p>6:30 a.m. – 12:30 p.m. Registration</p> <p>6:30 a.m. – 7:30 a.m. Breakfast</p> <p>6:30 a.m. – 12:15 p.m. Exhibit Hall</p> <p>6:30 a.m. – 7:30 a.m. JNO Editorial Meeting</p> <p>7:00 a.m. – 7:30 a.m. YONO Committee Meeting</p> <p>7:00 a.m. – 7:30 a.m. Practice Management Career Support Subcommittee Meeting</p> <p>7:00 a.m. – 7:30 a.m. CME Committee Meeting</p> <p>7:30 a.m. – 12:00 p.m. SCIENTIFIC PLATFORM PRESENTATIONS: SESSION II [3.75 CME]</p> <p>8:00 a.m. – 10:00 a.m. Guest Hospitality Suite</p> <p>9:15 a.m. – 9:30 a.m. Update: The Journal of Neuro-Ophthalmology <i>Lanning Kline, MD, Editor-in-Chief &amp; Jason Roberts, PhD, Managing Editor</i></p> <p>9:30 a.m. – 10:00 a.m. Coffee Break</p> <p>1:30 p.m. – 4:30 p.m. Diagnosing and Treating Neuro-Ophthalmology Coding Problems [3 CME] <i>Presenter: Sue Vicchilli, COT, OCS</i></p>	<p>Yoga Studio (Level 10)</p> <p>Ballroom Lobby</p> <p>Ballroom 1/Foyers</p> <p>Ballroom 1</p> <p>Wasatch B</p> <p>Little Pine</p> <p>Superior A</p> <p>Board Room</p> <p>Ballrooms 2-3</p> <p>The Aerie Restaurant</p> <p>Ballrooms 2-3</p> <p>Ballroom 1</p> <p>Ballrooms 2-3</p>
--	---

Are you appropriately documenting and coding for proper reimbursement which varies by payer? This course will review in detail what the neuro-ophthalmology team must know about documentation for examinations (when to use an E&M vs. an Eye code) consultations and hospital encounters, using time as a factor, testing services (unilateral vs. bilateral coverage), minor and major surgical procedures. Bundling edits, appropriate modifier application and ICD-10 implementation to assure a smooth transition to ICD-10 will also be addressed. Have an issue you'd like addressed as part of the course? Email Sue at [vicchilli@ao.org](mailto:vicchilli@ao.org).

At the conclusion of this symposium, the attendees should be able to: 1) Select the correct level of E&M or Eye code for a variety of patient encounters; 2) Identify the correct modifier to append to the exam, test, or surgery; 3) Recognize the impact of bundling edits; 4) Understand components of special testing services; 5) Recognize key issues in minor and major surgical coding; and 6) Understand ICD-10 implications and identify steps to assure a smooth transition.

*This course is designed to procure the following desirable physician attributes: Systems-based practice; utilize informatics*

<p>6:00 p.m. – 9:30 p.m. POSTER SESSION [3.5 CME] <i>Guests are welcome. Event is complimentary for attendees but guests must purchase tickets. Tickets are available for purchase for \$50 per person.</i></p>	<p>Upper Level Lobby</p>
---	--------------------------

### Wednesday, February 13

<p>6:30 a.m. – 12:30 p.m. Registration</p> <p>6:30 a.m. – 7:30 a.m. Breakfast</p> <p>7:00 a.m. – 7:30 a.m. Annual NANOS Business Meeting (all encouraged to attend)</p> <p>8:00 a.m. – 10:00 a.m. Guest Lounge</p>	<p>Ballroom Lobby</p> <p>Ballroom 1/Foyers</p> <p>Ballrooms 2-3</p> <p>The Aerie Restaurant</p>
--	---

**39<sup>th</sup> Annual NANOS Meeting**  
**February 9-14, 2013 | Snowbird, UT**

**Wednesday, February 13 (Continued)**

**7:30 a.m. – 11:00 a.m. Update on the Management of Idiopathic Intracranial Hypertension [3 CME]**

**Ballrooms 2-3**

*Moderators: Valérie Biousse, MD & Michael Wall, MD*

Idiopathic intracranial hypertension (IIH) is one of the most common disorders encountered in neuro-ophthalmology. However, there continues to be no evidence based consensus or formal guidelines regarding management and treatment of the disease. This symposium will review recent advances in the management of IIH, focusing on practical considerations. This symposium will be mostly case-based and speakers will address specific management issues, including the recognition of patients at high risk for visual loss, weight management, the treatment of headache, the issue of pediatric IIH, CSF shunting procedures, optic nerve sheath fenestration, and cerebral transverse venous sinus stenting. There will be ample time for discussion with the audience.

At the conclusion of this symposium, the attendees should be able to: 1) Recognize IIH patients at high risk for visual loss; 2) Initiate appropriate weight and headache management in IIH patients; 3) Manage children with IIH; and 4) choose among CSF shunting procedures, optic nerve fenestration, or cerebral transverse venous sinus stenting in patients with severe IIH.

*This course is designed to procure the following desirable physician attributes: Patient care; medical knowledge*

7:30 – 7:55 a.m. **Can we predict the prognosis/outcome of IIH patients?**, Valérie Biousse, MD  
7:55 – 8:20 a.m. **Weight loss in IIH**, Michael Wall, MD  
8:20 – 8:40 a.m. **Headache Management in IIH**, Deborah I. Friedman, MD, MPH  
8:40 – 9:00 a.m. **IIH in Kids**, Robert Avery, DO  
9:00 – 9:10 a.m. **Discussion**

**9:10 a.m. – 9:35 a.m. Coffee Break**

**Ballroom 1**

**Update on the Management of Idiopathic Intracranial Hypertension (continued)**

**Management of IIH: Case Discussions**

9:35 – 10:00 a.m. Amin B. Kassam, MD  
10:00 – 10:15 a.m. Louise A. Mawn, MD  
10:15 – 10:30 a.m. Marc Dinkin, MD  
10:30 – 11:00 a.m. **Closing Remarks / Question & Answer**

**11:00 a.m. – 11:10 a.m. NOVEL Update**

**Ballrooms 2-3**

**11:10 a.m. – 12:10 p.m. Jacobson Lecture: Neuro-Ophthalmology at Iowa [1 CME]**

**Ballrooms 2-3**

*Presenter: H. Stanley Thompson, MD*

The story of neuro-ophthalmology at the University of Iowa will be offered as an example of the vigorous growth of our sub-specialty in the late 20th century - as exemplified by the year that both Digre and Jacobson were energetic Neuro-ophthalmology fellows in Iowa City. However, it must be said that the development of neuro-ophthalmology as a recognized medical sub-specialty of significant content is a comparatively recent phenomenon. It happened during the last half of the 20th Century - largely in response to the heroic editorial efforts of Frank Walsh, Bill Hoyt, Neil Miller and Nancy Newman.

At the conclusion of this symposium, attendees should be able to: 1) Understand the history of neuro-ophthalmology at the University of Utah; 2) Recognize how far neuro-ophthalmology has progressed in the last 50 years; 3) Learn about the role Dan Jacobson had in moving our specialty forward.

*This course is designed to procure the following desirable physician attributes: Systems-based practice; work in interdisciplinary teams*

**39<sup>th</sup> Annual NANOS Meeting**  
**February 9-14, 2013 | Snowbird, UT**

**Wednesday, February 13 (Continued)**

**12:15 p.m. – 1:30 p.m. Young Neuro-Ophthalmologist Forum: Career GPS: Navigating the early years in neuro-ophthalmology: Finding your path, avoiding the potholes**

**Superior**

An Italian-style lunch will be available for \$25 or those that purchased this option; however, all are welcome to attend even without the purchase of lunch.

This forum is designed for residents, fellows, and neuro-ophthalmologists in the early years of their career. This session will be a panel discussion of junior and senior neuro-ophthalmologists (with question and answer period) covering a wide range of topics including: initiating the job search, choosing between an academic vs. private practice career, negotiating a job contract, developing career goals and finding work/life balance.

**12:15 p.m. – 1:30 p.m. Research Committee Meeting Luncheon**

**Wasatch A**

**1:30 p.m. – 4:30 p.m. Live Endonasal Endoscopic Cadaveric Prosection Symposium [3 CME]**

**Ballrooms 2-3**

*Presenter: Amin B. Kassam, MD*

This course will cover the general principles of endoscopic approaches through the nasal passages to the ventral skull base and orbit. The course will consist of a dissection of a prepared cadaver that will be transmitted live with high definition optics. During the modular dissection the following anatomical regions will be demonstrated:

- The nasal corridor to the sella, orbit and ventral skull base
- The anatomic relationship of the optic chiasm, optic nerves, and superior hypophyseal arteries
- The anatomic relationship of the nerves responsible for extraocular movement in the cavernous sinus, superior orbital fissure and annulus
- The ventral skull base and brainstem (hypothalamus, ventricles, interpeduncular fossa)
- Origin of the 2, 3, 4, 5, 6, 7, 8, nerves and their course through the cisternal space and dural rings
- The orbit (intra/extracanal) anatomy
- Transposition of the pituitary gland to access the interpeduncular fossa and third nerve

This will be an interactive session with the audience and allow for two-way communication to facilitate discussion during the dissection. If time permits, additional white mater dissections using the BrainPath/Port system for white matter dissection will be included.

*This course is designed to procure the following desirable physician attributes: Medical knowledge; work in interdisciplinary teams; utilize informatics.*

**4:30 p.m. – 5:30 p.m. Abstract Committee Meeting**

**Superior A**

**4:30 p.m. – 5:30 p.m. International Relations Committee Meeting**

**Superior B**

**7:00 p.m. – 12:00 a.m. Annual NANOS Reception and Banquet (see page 10 for details)**

**Golden Cliff/  
Ballrooms 1-3**

**Thursday, February 14**

**6:30 a.m. – 12:30 p.m. Registration**

**Ballroom Lobby**

**6:30 a.m. – 7:30 a.m. Breakfast**

**Ballroom 1/Foyers**

**8:00 a.m. – 10:00 a.m. Guest Lounge**

**The Aerie Restaurant**

**39<sup>th</sup> Annual NANOS Meeting**  
**February 9-14, 2013 | Snowbird, UT**

**Thursday, February 14 (continued)**

**7:30 a.m. – 9:30 a.m. Refining the Clinical Localization of Neuro-Ophthalmic Diagnoses: What Test is Best? [2 CME] Ballrooms 2-3**  
*Moderators: Fiona Costello, MD, FRCP & Michael S. Lee, MD*

In this symposium, we will review the utility of diagnostic tests [optical coherence tomography (OCT); full field and multifocal ERG; and fluorescein angiography] in the localization and diagnosis of important neuro-ophthalmic conditions. The approach will be a case-driven format, in which speakers will review how a clinical diagnosis can be approached through the use of potential ancillary investigations. The value of different ancillary tests will be critiqued by a panel of experts with audience participation encouraged through the standard audience-response approach. The goal is to provide an interactive and engaging symposium, which will allow audience members to bolster their diagnostic arsenal and improve clinical decision making in diagnosing neuro-ophthalmic disorders. At the conclusion of this symposium, the attendees should be able to: 1) Review the scientific rationale for using ancillary investigations including OCT, full-field and multifocal ERG, fluorescein angiography, and auto-fluorescence (with FA and OCT) to localize important neuro-ophthalmic disorders; 2) Discuss the optimal approach to using ancillary tests in the localization of neuro-ophthalmic diagnoses – what test to use, when, and for whom?; and 3) Critique the pros and cons of ancillary investigations in neuro-ophthalmic practice, through case-based discussion.

*This course is designed to procure the following desirable physician attributes: Medical knowledge; practice-based learning and improvement*

**Panel of Experts:** *Neil R. Miller, MD, Jeffrey G. Odel, MD & Alfredo A. Sadun MD, PhD*  
7:35 – 7:55 a.m. **How to Distinguish Retinal Disorders from Causes of Optic Nerve Dysfunction?**, *Andrew G. Lee, MD*  
7:55 – 8:15 a.m. **How to Distinguish Pseudopapilledema from Papilledema?**, *Anthony C. Arnold, MD*  
8:15 – 8:30 a.m. **How to Best Measure Afferent Visual Pathway Damage in Neuro-Ophthalmic Disorders – the Optic Nerve, Retinal Nerve Fiber Layer, and Beyond!**, *Fiona Costello, MD, FRCP*  
8:30 – 8:50 a.m. **How to Capture Disease Activity in the Longitudinal Follow-Up of Optic Neuropathies?**, *Julie Falardeau, MD*  
8:50 – 9:05 a.m. **Murphy's Law – When Good Tests Go Bad!**, *Michael S. Lee, MD*  
9:05 – 9:30 a.m. **Closing Remarks / Question & Answer**

**9:30 a.m. – 10:00 a.m. Coffee Break Ballroom 1**  
**10:00 a.m. – 12:00 p.m. Telemedicine for Neuro-Ophthalmology [2 CME] Ballrooms 2-3**  
*Moderators: Beau Bruce, MD & Prem S. Subramanian, MD, PhD*

Telemedicine techniques have the potential to allow patients in remote locations to access the services of scarce specialists such as neuro-ophthalmologists without costly and time-consuming travel. Teleconsultations as well as real-time diagnostics could allow for earlier and more accurate diagnoses, sparing the patient anxiety and undirected testing. Using a case-based approach, we will explore the technical and regulatory aspects of telemedicine as they pertain to neuro-ophthalmology. At the conclusion of this symposium, the attendees should be able to: 1) Identify available methods for neuro-ophthalmologic examination with remote technology; 2) Understand the challenges and rewards of telemedicine both within institutions and across geographic boundaries; and 3) Learn how the neuro-ophthalmologist can assist with already established telemedical networks and develop new telemedical services.

*This course is designed to procure the following desirable physician attributes: Utilize informatics; work in interdisciplinary teams; systems-based practice*



# 39<sup>th</sup> Annual NANOS Meeting

## February 9-14, 2013 | Snowbird, UT

### Thursday, February 14 (continued)

10:00 – 10:15 a.m. **Introduction: What is telemedicine and how is it relevant to neuro-ophthalmology?**

*Prem S. Subramanian, MD, PhD*

10:15 – 10:55 a.m. **Interactive Case-Based Presentations**

**Screening for disease in an at-risk population: retinopathy of prematurity, *Michael F. Chiang, MD***

**Screening for disease based on presenting symptoms, *Beau Bruce, MD***

**Acute stroke real-time tele-consultation, *Beau Bruce, MD***

**Long-distance telemedicine, *Michael F. Chiang, MD***

10:55 – 11:15 a.m. **Dollars and Sense: Billing, Coding, and Regulations, *Melissa W. Ko, MD***

11:15 – 11:30 a.m. **Telemedicine: Beyond Remote Diagnosis, *Michael F. Chiang, MD***

11:30 – 11:45 a.m. **Mobile Devices: a day in the life of the 21st century neuro-ophthalmologist, *Beau Bruce, MD***

11:45 – 12:00 p.m. **Closing Remarks / Question & Answer**

**12:00 p.m. Meeting adjourns**

ACCREDITATION: This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through sponsorship of the North American Neuro-Ophthalmology Society. NANOS is accredited by the ACCME to provide continuing medical education (CME) for physicians. The North American Neuro-Ophthalmology Society NANOS designates this live activity for a maximum of 40.75 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity. **A CME verification form will be distributed during the meeting.**

### REGISTRATION INFORMATION

**ON-SITE REGISTRATION HOURS:** (located in Ballroom Foyer)

Saturday	12:00 p.m. – 8:30 p.m.
Sunday	6:30 a.m. – 5:30 p.m.
Monday –Thursday	6:30 a.m. – 12:30 p.m.

**SPECIAL REQUIREMENTS:** NANOS fully complies with the legal requirements of the Americans with Disabilities Act and the rules and regulations thereof. Snowbird is happy to arrange for Kosher meals for attendees. Arrangements must be made in advance with Frederic Barbier, Food and Beverage Coordinator, [fbarbier@snowbird.com](mailto:fbarbier@snowbird.com). Please note that you **do not** need to order breakfasts (Sun-Thurs.), Sunday lunch or Wednesday dinner since these are NANOS functions.

**EVALUATION AND CME CERTIFICATE:** CME certificates will be available at the NANOS registration desk at the conclusion of the Annual Meeting on Thursday. Please complete the meeting evaluation form and bring it to the registration desk in exchange for a CME certificate.

### New to Neuro-Ophthalmology?

I want to extend a warm invitation to the trainees, fellows, and attendings new to neuro-ophthalmology. This is the meeting for young neuro-ophthalmologists to not only learn the latest in our field, but also to meet and connect with colleagues from all over the world. Whether you are the medical student considering our subspecialty or the young attending in your first 5 years of practice, we have created special events for you to ask questions and make contacts as you navigate through a successful career in neuro-ophthalmology.

In particular for the trainees and physicians in the first few years of practice, I especially look forward to having you join us at the Young Neuro-Ophthalmologist Forum: Career GPS: Navigating the early years in neuro-ophthalmology, on Wednesday, February 13<sup>th</sup>. Whether I see you at the scientific sessions or on the slopes, I'm excited you're here!

Sincerely,  
Melissa W. Ko, MD  
Young Neuro-Ophthalmologist (YONO) Committee Chair  
Syracuse, New York

# 39<sup>th</sup> Annual NANOS Meeting

## Faculty Listing

**Madhu Agarwal, MD**

California Orbital Consultants  
Redlands, CA

**Anthony C. Arnold, MD**

Jules Stein Eye Institute  
UCLA Dept. of Ophthalmology  
Los Angeles, CA

**Robert Avery, DO**

Children's National Medical Center  
Washington, DC

**Jeffrey L. Bennett, MD, PhD**

University of Colorado Denver  
Aurora, CO

**M. Tariq Bhatti, MD**

Duke University Eye Center; Duke University  
Medical Center  
Durham, NC

**Valérie Biousse, MD**

Emory University  
Atlanta, GA

**Swaraj Bose, MD**

University of California  
Los Angeles, CA

**Daniel J. Brat, MD, PhD**

Emory University School of Medicine  
Atlanta, GA

**Beau Bruce, MD**

Emory University  
Atlanta, GA

**Michael F. Chiang, MD**

Columbia University College of Physicians &  
Surgeons  
New York, NY

**Fiona Costello, MD, FRCP**

University of Calgary  
Calgary, Canada

**Kathleen Digre, MD**

John Moran Eye Center, University of Utah  
Salt Lake City, UT

**Marc Dinkin, MD**

Weill Cornell Medical College  
New York, NY

**Julie Falardeau, MD**

Casey Eye Institute  
Portland, OR

**Edmond J. FitzGibbon, MD**

National Eye Institute  
Bethesda, MD

**Deborah I. Friedman, MD, MPH**

University of Texas Southwestern  
Dallas, TX

**Benjamin Frishberg, MD**

The Neurology Center  
Oceanside, CA

**Larry Frohman, MD**

New Jersey Medical School  
Newark, NJ

**Steven Galetta, MD**

University of Pennsylvania  
Philadelphia, PA

**Pat Hudgins, MD**

Emory University School of Medicine  
Atlanta, GA

**Guy Jirawuthiworavong, MD, MA**

Southern California Permanente Medical Group  
La Palma, CA

**Patricia Johnston McNussen, MD**

Carle Physician Group  
Urbana, IL

**Amin B. Kassam, MD**

The Ottawa Hospital  
Ottawa, Canada

**Sachin Kedar, MD**

University of Kentucky College of Medicine  
Lexington, KY

**Melissa W. Ko, MD**

SUNY Upstate Medical University  
Jamesville, NY

**Byron L. Lam, MD**

Bascom Palmer Eye Institute, University of Miami  
School of Medicine  
Miami, FL

**Andrew G. Lee, MD**

The Methodist Hospital  
Houston, TX

**Michael S. Lee, MD**

University of Minnesota  
Minneapolis, MN

**Y. Joyce Liao, MD, PhD**

Stanford University  
School of Medicine  
Stanford, CA

**Louise A. Mawn, MD**

Vanderbilt Eye Institute  
Nashville, TN

**Timothy McCulley, MD**

The Wilmer Eye Institute, Johns Hopkins School of  
Medicine  
Baltimore, MD

**Mark R. Melson, MD**

Vanderbilt Eye Institute  
Nashville, TN

**Neil R. Miller, MD**

Wilmer Eye Institute, Johns Hopkins Hospital  
Baltimore, MD

**Jeffrey G. Odel, MD**

Edward S. Harkness Eye Institute, Columbia  
Presbyterian Medical Center  
New York City, NY

**Anne G. Osborn, MD**

University of Utah  
Salt Lake City, UT

**Paul H. Phillips, MD**

University of Arkansas for Medical Sciences  
Little Rock, AR

**Sashank Prasad, MD**

Brigham and Women's Hospital  
Boston, MA

**Peter A. Quiros, MD**

Doheny Eye Institute, Keck School  
of Medicine, University of  
Southern California  
Los Angeles, CA

**Janet C. Rucker, MD**

Mount Sinai School of Medicine  
New York, NY

**Alfredo A. Sadun MD, PhD**

Doheny Eye Institute  
Los Angeles, CA

**Karen Salzman, MD**

University of Utah  
Salt Lake City, UT

**Ann Stoutenburg, CCRC**

University of Rochester  
Rochester, NY

**Prem S. Subramanian, MD, PhD**

Wilmer Eye Institute  
Baltimore, MD

**H. Stanley Thompson, MD**

University of Iowa  
Iowa City, IA

**Matthew J. Thurtell, MBBS, FRACP**

University of Iowa  
Iowa City, IA

**Gregory P. Van Stavern, MD**

Washington University in St. Louis – School of  
Medicine  
St. Louis, MO

**Renee B. Van Stavern, MD**

Washington University in St. Louis – School of  
Medicine  
St. Louis, MO

**Sue Vicchilli, COT, OCS**

American Academy of Ophthalmology  
San Francisco, CA

**Michael Wall, MD**

University of Iowa  
College of Medicine  
Iowa City, IA

# 39<sup>th</sup> Annual NANOS Meeting

## February 9-14, 2013 | Snowbird, UT

### GROUND TRANSPORTATION

Travel time between the airport and Snowbird Ski and Summer Resort is approximately 30 minutes. Below are details for taxi, shuttle, and driving options.

- Airport shuttles may be arranged while booking lodging through Snowbird Central Reservations (800-255-1841) or up to 48 hours prior to arrival. Current group round-trip pre-paid price is \$64 per person, indicate that you are with NANOS. Gratuity is not included. Walk-ups are accepted on a space available basis at the Canyon Transportation desk located in the baggage claim area of the Salt Lake City International Airport. Cancellations received within 48 hours of arrival are non-refundable. Please note that the walk-up rate is typically higher than the prepaid price.

### SOCIAL FUNCTIONS

#### **Saturday, February 9**

Please join us for the **Opening Reception**, which will take place from 6:30 – 8:00 p.m. in the Golden Cliff of the Snowbird Ski Resort. All are welcome to attend this opening reception, which features complimentary cocktails and dinner.

#### **Sunday, February 10**

New to neuro-ophthalmology? Join us for a Student, Resident and Fellow Program and Reception from 5:30 – 6:30 p.m. in the Wasatch Room.

#### **Monday, February 11**

Join your female colleagues for the Women in Neuro-Ophthalmology (WIN) Luncheon & Meeting from 12:15 – 1:30 p.m. in the Magpie room. A deli-style lunch will be available for \$28; however, all are welcome to attend even without the purchase of a lunch.

Dinner at the Movies! Enjoy a casual, relaxing night with fellow NANOS attendees and enjoy this year's two movie features, *The Producers* and *Duck Soup*. Popcorn for everyone and a cash bar will be available. A buffet dinner will be served at 7:15 p.m. for those that wish to purchase this option for \$35.

#### **Tuesday, February 12**

This year's Poster Session will include a reception and dinner buffet. Event is complimentary for attendees but guests must purchase tickets. Tickets are available for purchase for \$50 per person.

#### **Wednesday, February 13**

Join your YONO (Young Neuro-Ophthalmologist) colleagues for this year's Forum: *Career GPS: Navigating the early years in neuro-ophthalmology. Finding your path, avoiding the potholes* in the Superior Room. An Italian-style lunch will be available for \$25; however, all are welcome without the purchase of a lunch.

Join your colleagues for a fun, casual evening of socializing, dining and dancing at the NANOS Annual Reception and Banquet, which will take place from 7:00 p.m. – 12:00 a.m. The reception will be held in the Golden Cliff starting at 7:00 p.m. and dinner will be served in Ballrooms 1-3 at 7:45 p.m. Guests and children are welcome. Event is complimentary for attendees but guests must purchase tickets. Tickets are available for purchase for \$100 per person.

### OPTIONAL TOURS AND FREE TIME ACTIVITIES

#### **Skiing and Snowboarding**

Snowbird Mountain receives more than 500 inches of glistening white snow every year, making it the second greatest area of snowfall in the mainland United States. Take advantage of the perfect dry and powdery snow that falls on Snowbird Mountain. Please show your NANOS name badge at the ticket window to obtain the discounted rate onsite.

#### **Downtown Excursion**

**Price: \$30** inclusive of transportation, admission (to the Eccles Library or the Natural History Museum) and boxed lunch.

Your registration packet includes more Snowbird activities and details!



**NANOS 40<sup>th</sup> Annual Meeting:**  
**March 1-6, 2014 / Rio Grande, Puerto Rico**

**North American Neuro-Ophthalmology Society**

*5841 Cedar Lake Road, Suite 204, Minneapolis, MN 55416 PHONE 952-646-2037 FAX*

*952-545-6073 website: [www.nanosweb.org](http://www.nanosweb.org)*