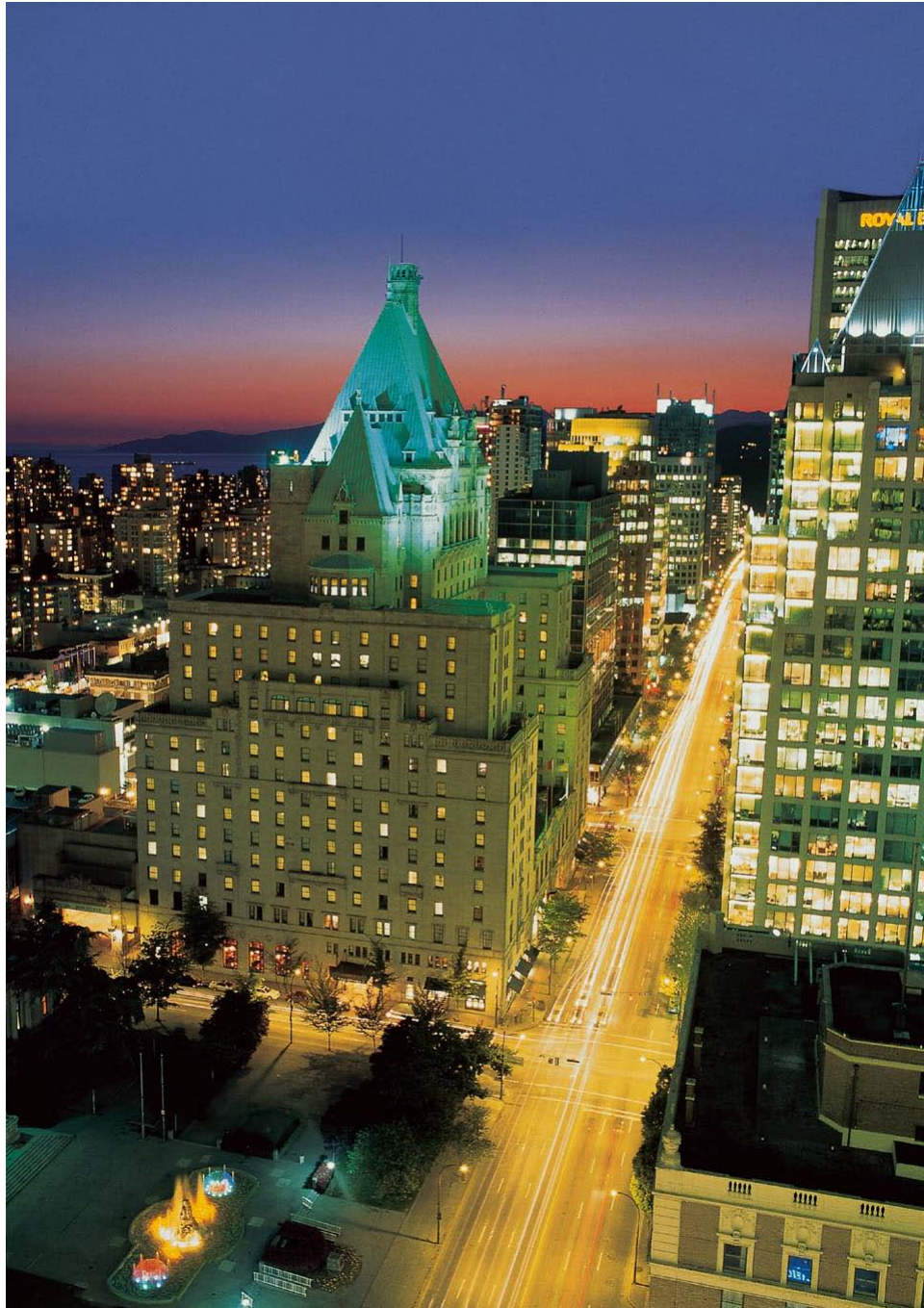




# NORTH AMERICAN NEURO-OPHTHALMOLOGY SOCIETY

FEBRUARY 5-10, 2011

The Fairmont Hotel Vancouver | Vancouver, Canada



## 37<sup>TH</sup> ANNUAL NANOS MEETING PROGRAM

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

## February 5-10, 2011 | Vancouver, Canada

### Saturday, February 5

	LOCATION
12:00 p.m. – 5:00 p.m. Board Meeting	Board Room
2:00 p.m. – 8:30 p.m. Registration	Pacific Foyer
7:00 p.m. – 8:30 p.m. Opening Reception (all are welcome)	The Roof (15 <sup>th</sup> Floor)

### Sunday, February 6

6:30 a.m. – 5:30 p.m. Registration	Pacific Foyer
6:30 a.m. – 7:45 a.m. Continental Breakfast	British Room
6:30 a.m. – 12:30 p.m. Exhibit Hall Open	Vancouver Island Room
8:30 a.m. – 10:30 a.m. Spouse/Guest Hospitality Suite	900 West “Tea Room”

<b>7:45 a.m. – 5:00 p.m. FRANK B. WALSH SESSION [6.75 CME]</b> <i>Co-Chairs: Sophia M. Chung, MD &amp; Gregory P. Van Stavern, MD</i> <i>Neuropathologist: Joseph Corbo, MD, PhD</i> <i>Neuroradiologist: Aseem Sharma, MD</i>	Pacific Ballroom
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11:40 a.m. – 1:20 p.m. **Lunch on own** – Please see local restaurant list for recommendations.

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.

5:15 p.m. – 5:45 p.m. Frank B. Walsh Committee Meeting	Tweedsmuir Room
5:15 p.m. – 6:00 p.m. Fellowship/Professional Standards Committee Meeting	Garibaldi Room
5:30 p.m. – 6:30 p.m. Resident/Student Program and Reception	Board Room
Evening Dinner on your own	

### Monday, February 7

6:30 a.m. – 12:30 p.m. Registration	Pacific Foyer
6:30 a.m. – 7:30 a.m. Continental Breakfast	British Room
6:30 a.m. – 12:30 p.m. Exhibit Hall Open	Vancouver Island Room
8:30 a.m. – 10:30 a.m. Spouse/Guest Hospitality Suite	900 West “Tea Room”

<b>7:30 a.m. – 9:30 a.m. FROM THE PAPER TO THE PATIENT [2 CME]</b> <i>Moderators: Edmond FitzGibbon, MD &amp; Jason Barton, MD, PhD, FRCPC</i>	Pacific Ballroom
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In this symposium recent research in visual science will be presented by those conducting it. The topics will include motion vision, facial recognition and amblyopia. Relevant clinical applications will be discussed.

At the conclusion of this symposium, the attendees should be able to: 1) Understand more about small, low latency visual motion reflexes and how they can be used to understand visual motion processes; 2) Understand recent progress in functional

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*Monday continued, From the Paper to the Patient*

neuroimaging and adaptation studies for face perception and links to work on prosopagnosia; 3) Recognize that amblyopia is a neural disorder resulting from inadequate stimulation of the brain during critical periods of development. In addition to deficits in visual acuity and contrast sensitivity, amblyopia is associated with higher order perceptual deficits that involve abnormal processing in both space and time as well as in the dorsal and ventral streams. Attendees will gain new knowledge on emerging neuroimaging techniques that are used to study neurological disorders, including amblyopia; and 4) Learn how to map visual fields dichoptically in strabismus and comprehend the patterns of visual field suppression noted in exotropia. They will also understand how anomalous retinal correspondence allows accurate spatial localization in strabismus.

- 7:30 a.m. – 7:55 a.m. How do We See Motion? What Small Eye Movements Can Tell Us about Vision  
*Edmond FitzGibbon, MD*
- 7:55 a.m. – 8:20 a.m. Face Processing: Mechanism, Structure, and Function  
*Jason Barton, MD, PhD, FRCPC*
- 8:20 a.m. – 8:45 a.m. What Does SQUID Have To Do With Lazy Eye? Using MEG to Study Amblyopia  
*Agnes Wong, MD, PhD, FRCS(C)*
- 8:45 a.m. – 9:10 a.m. Mapping Suppression Scotomas in Strabismus  
*Jonathan C. Horton, MD, PhD*
- 9:10 a.m. – 9:30 a.m. Questions and Answers
- 9:30 a.m. – 10:00 a.m. **Coffee Break**

**10:00 a.m. – 12:15 p.m. HOT TOPICS IN NEURO-OPHTHALMOLOGY [2.25 CME]** Pacific Ballroom  
*Moderators: Klara Landau, MD & Neil Miller, MD*

This symposium will focus on four main topics: the newest aspects of visual rehabilitation as it pertains to patients with homonymous field defects, new modes of radiation therapy for basal skull and optic nerve tumors, the status of stem cell and gene therapy for neuro-ophthalmic disorders, and what's new with implants designed to provide vision to patients who are blind from retinal and optic nerve diseases.

At the conclusion of this symposium, the attendees should be able to: 1) Understand the rehabilitation strategies for patients with homonymous hemianopias; 2) Know the newest techniques for focused radiation therapy for basal skull tumors affecting the visual pathways; 3) Know the current status of subretinal, epiretinal, and occipital implants for patients blind from retinal or optic nerve disease; and 4) Understand the status of gene and stem cell therapy for a variety of neuro-ophthalmologic disorders.

- 10:00 a.m. – 10:30 a.m. Current Status of Rehabilitation for Patients with Homonymous Field Defects  
*Susanne Trauzettel-Klosinski, MD*
- 10:30 a.m. – 11:00 a.m. Current Status of Image-Guided Radiation Therapy for Patients with Base of Skull Tumors  
*Dean Cestari, MD*
- 11:00 a.m. – 11:30 a.m. Stem Cells, Gene Therapy, and the Neuro-Ophthalmologist  
*Jeffrey Bennett, MD, PhD*
- 11:30 a.m. – 11:45 a.m. NANOS Platform Presentation: Laser-Assisted Transplantation of Stem Cells into the Adult Eye  
*Y. Joyce Liao, MD, PhD*
- 11:45 a.m. – 12:15 p.m. The Field of Visual Prosthetic Devices: Conceptual Foundation, Status and Controversy - *Joseph Rizzo, III, MD*  
Utah Artificial Vision Project—Occipital Cortical Implants for Blindness - *Judith Warner, MD*
- 12:30 p.m. – 2:30 p.m. Women in Neuro-Ophthalmology (WIN) Meeting Board Room
- 1:00 p.m. – 3:00 p.m. GETTING YOUR MANUSCRIPT PUBLISHED [2 CME]** Garibaldi Room  
*Walter Jay, MD & Lanning B. Kline, MD*

This workshop will be taught by the Editors-in-Chief of two Neuro-Ophthalmology journals. Dr. Walter Jay is the American Editor-in-Chief of Neuro-Ophthalmology. Dr. Lanning Kline is Editor in Chief of the Journal of Neuro-Ophthalmology. It is particularly aimed at Residents, Fellows, and Assistant Professors. The workshop will provide a step by step approach for

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### Monday continued, Getting Your Manuscript Published

preparing a manuscript for submission. It will also explain the peer review process once the manuscript is submitted. Since most manuscripts require some degree of revisions after being peer reviewed, the workshop will discuss the process of preparing a revised manuscript. Finally, the workshop will discuss the proof stage once the manuscript is accepted. Participants are requested to bring their own manuscripts for discussion purposes.

At the conclusion of the symposium, the attendees should be able to: 1) Understand the process of preparing a manuscript for submission for publication; and 2) Explain the peer review process.

### 1:00 p.m. – 4:00 p.m. **NOVEL AND NEW MOBILE AND COLLABORATION TECHNOLOGIES UPDATE [3 CME]** Pacific Ballroom

*Nancy T. Lombardo, Information Technology Librarian, NOVEL Project Director*  
*Spencer S. Eccles Health Sciences Library, University of Utah*  
*Jeanne Le Ber, Public, Education and Research Services Librarian*  
*Spencer S. Eccles Health Sciences Library, University of Utah*  
*Edmond J. FitzGibbon M.D., Neuro-ophthalmology*  
*Laboratory of Sensorimotor Research, National Eye Institute/NIH*

This session provides an update to NOVEL: the Neuro-Ophthalmology Virtual Education Library. Many enhancements have been made to the digital library, including the archives of the Journal of Clinical Neuro-Ophthalmology and the NANOS Annual Meeting. These new collections will be highlighted. Following the NOVEL update, mobile applications which can make member's lives easier will be presented. The tools covered will include relevant neuro-ophthalmology apps and QR Codes for pushing out or viewing information on your mobile device. Google Sites, a free web-based collaborative workspace will be demonstrated. A brief overview of methods for sharing EndNote libraries will be covered. NOVEL help and EndNote consultations will be available at the NOVEL table outside the main lecture hall throughout the meeting.

At the conclusion of this symposium, the attendees should be able to: 1) Use the new features and collections in NOVEL and improve their practice by increasing access to educational materials for physicians and patients; 2) Save time with mobile applications that provide quick access to information; 3) Collaborate with colleagues or manage a team project using Google Sites to write and share documents, embed gadgets, create lists, make announcements and more; and 4) Share EndNote libraries (bibliographies) with others using EndNote Web.

Program Outline: 1) NOVEL Update; 2) Mobile applications to make your life easier; 3) Google Sites - a free web-based collaborative workspace; and 4) EndNote and EndNote Web – for sharing libraries and articles

4:00 p.m. – 5:00 p.m. International Relations Committee Meeting Tweedsmuir Room  
3:00 p.m. – 5:00 p.m. Young Neuro-Ophthalmologist Forum Waddington Room  
4:00 p.m. – 5:00 p.m. NOVEL Meeting Pacific Ballroom

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

## Tuesday, February 8

6:30 a.m. – 12:30 p.m. Registration Pacific Foyer  
6:30 a.m. – 7:30 a.m. Continental Breakfast British Room  
6:30 a.m. – 7:30 a.m. JNO Editorial Meeting Board Room  
6:30 a.m. – 12:30 p.m. Exhibit Hall Open Vancouver Island Room  
8:30 a.m. – 10:30 a.m. Spouse/Guest Hospitality Suite 900 West “Tea Room”

### 7:30 a.m. – 12:00 p.m. **SCIENTIFIC PLATFORM PRESENTATIONS: SESSION II [3.75 CME]** Pacific Ballroom

9:15 a.m. – 9:30 a.m. **Update: The Journal of Neuro-Ophthalmology** Pacific Ballroom  
*Lanning Kline, MD – Editor-in-Chief*  
*Jason Roberts, PhD – Managing Editor*

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*Tuesday continued*

9:30 a.m. – 10:00 a.m. **Coffee Break**

9:30 a.m. – 10:00 a.m. ICD-11 Task Force Meeting

Tweedsmuir Room

**6:00 p.m. – 10:00 p.m. POSTER SESSION [3 CME]**

Columbia Room

Presenter set up time Tuesday, February 8: 6:00 a.m. - 12:00 p.m.

Authors Present: Odd-Numbered Posters: 6:45 – 7:30 p.m.

Even-Numbered Posters: 7:30 – 8:15 p.m.

**8:30 p.m. – 10:00 p.m. POSTER TOUR**

Pacific Ballroom

### Wednesday, February 9

6:30 a.m. – 12:30 p.m. Registration

Pacific Foyer

7:00 a.m. – 7:30 a.m. Annual NANOS Business Meeting (all encouraged to attend)

Pacific Ballroom

6:30 a.m. – 7:30 a.m. Continental Breakfast *Supported by Biogen Idec*

British Room

8:30 a.m. – 10:30 a.m. Spouse/Guest Hospitality Suite

900 West “Tea Room”

**7:30 a.m. – 11:05 a.m. MULTIPLE SCLEROSIS AND NEUROMYELITIS OPTICA:  
THE STATE OF THE ART [3.25 CME]**

Pacific Ballroom

*Moderators: Mark Morrow, MD & Robert Shin, MD*

Because of early and frequent involvement of the optic nerve in multiple sclerosis (MS) and neuromyelitis optica (NMO), neuro-ophthalmologists are often part of the early identification and decision-making process of both disorders. This symposium will review recent advances in the diagnosis and management of MS and NMO, focusing on practical considerations. Speakers will address the diagnosis of MS versus NMO, recognition of patients at high risk for progression, initial treatment options, and criteria for determining whether a given disease-modifying therapy is sufficiently effective.

At the conclusion of this symposium, the attendees should be able to: 1) Apply formal criteria to distinguish between a clinically-isolated syndrome like optic neuritis, MS and NMO; 2) Recognize patient populations at increased risk for the future development of MS or recurrent NMO; 3) Identify current and emerging treatment options for both conditions; and 4) Define “treatment failure” in MS.

7:30 a.m. - 7:45 a.m. The Optic Nerve: The ‘Tip of the Iceberg’ of Demyelination  
*Mark Morrow, MD*

7:45 a.m. - 8:45 a.m. Neuromyelitis Optica Spectrum Disorders: Diagnosis and Treatment  
*Dean Wingerchuk, MD*

8:45 a.m. - 9:10 a.m. Pediatric Optic Neuritis and Risk of Multiple Sclerosis  
*Grant Liu, MD*

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

9:35 a.m. – 10:00 a.m. Existing Therapies for Treatment of MS  
*Ari Green, MD*

10:00 a.m. - 10:25 a.m. Emerging Therapies of Multiple Sclerosis  
*Jeff Bennett, MD*

10:25 a.m. – 10:50 a.m. Starting and Switching Multiple Sclerosis Therapy  
*Steve Galetta, MD*

10:50 a.m. - 11:05 a.m. Should We Ever Consider Stopping Disease-Modifying Treatment for MS?  
*Robert Shin, MD*

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*Wednesday continued*

**11:05 a.m. – 12:00 p.m. JACOBSON LECTURE [1 CME]** Pacific Ballroom  
Neuro-ophthalmologic Disorders in Pregnancy  
*Kathleen B. Digre, MD*

**1:00 p.m. – 3:30 p.m. Skip's Tips 2011 [2.5 CME]** Pacific Ballroom  
*Richard "Skip" Legge, MD*

Skip's Tips will be given three parts. The first is entitled "Practice Management Tip Sharing." For this segment, each attendee will be asked to share 1 piece of advice that helped their practice to be more efficient, profitable or happy. This advice can pertain to human resources, billing and insurance, equipment acquisition, revenue building, coding or any other aspect of practice life. The objective is to provide a pool of suggestions that we all can learn from.

Developing a Prepay Fee Schedule for Your Neuro-Ophthalmology Practice will be the second section. This will be a speaker lead session discussing the rationale and methodology for developing a prepay cash fee schedule for your practice.

The final section is entitled "Open Forum". This is primarily for academics; however, all are certainly welcome. Practice management problems will be solicited from the audience, prioritized and discussed among the attendees. The answers to most problems are out there. This session will flush them into the open.

At the conclusion of the symposium, the attendees should be able to 1) Identify 10 specific methods by which to improve the running of his or her office practice; 2) Decide if it is appropriate for him or her to develop a pre-pay fee schedule and will have a method by which to do this; and 3) Describe and discuss the major practice management problems within an academic neuro-ophthalmology practice.

12:15 p.m. – 2:15 p.m. Research Committee Meeting Tweedsmuir Room  
3:30 p.m. – 4:30 p.m. Abstract Committee Meeting Board Room

**7:00 p.m. – 12:00 a.m. Annual NANOS Reception and Banquet** Columbia Ballroom  
Join your colleagues for a fun, casual evening of socializing, dining, and dancing. Guests and children are welcome. Event is complimentary for attendees. Guest tickets are available for \$100. Pre-registration is required to help us with attendance guarantees.

## Thursday, February 10

6:30 a.m. – 12:30 p.m. Registration Pacific Foyer  
6:30 a.m. – 7:30 a.m. Continental Breakfast British Room  
8:30 a.m. – 10:30 a.m. Spouse/Guest Hospitality Suite 900 West "Tea Room"

**7:30 a.m. - 9:35 a.m. EVIDENCE BASED MEDICINE FOR NEURO-OPHTHALMOLOGISTS [2 CME]** Pacific Ballroom  
*Moderators: Gregory Van Stavern, MD & Andrew Lee, MD*

Evidence Based Medicine influences how we practice, both in academic medical centers and private practice clinics. As sub-sub specialists, we are often referred patients with complex conditions, and there may be little to no evidence to guide us with judicious and effective diagnostic and management strategies- or so it may seem.

The goal of this symposium is three-fold: First, to provide an overview of Evidence Based Neuro-Ophthalmology in general, including what constitutes evidence, levels of evidence, etc; second, to discuss specific applications of EBNO-what evidence is most useful in which clinical situation, and how to interpret the data from clinical trials in a meaningful way; third, to discuss how we can integrate an evidence-based approach into daily clinical practice- this will also include a brief discussion of clinical reasoning skills, and how often unconscious cognitive biases influence our decision-making, and how medical heuristics can both help and hinder us.

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*Thursday continued, Evidence Based Medicine for Neuro-Ophthalmologists*

We hope that after the session, attendees will be able to view EBNO as a tool, not a cookbook; and to apply the principles of EBNO to even the most esoteric cases. We wish to illustrate that these principles are not in opposition to time-honored methods of experience and clinical judgment, but rather complementary.

At the conclusion of the symposium, attendees should be able to: 1) Enhance understanding of the principles of Evidence Based Medicine, and how they apply to Neuro-Ophthalmology; 2) Understand which forms of evidence are best suited for which clinical situation, and how to better evaluate that evidence; and 3) Understand some of the pitfalls with standard clinical reasoning, and how EBM might be used to avoid diagnostic errors.

- 7:35 a.m. - 7:45 a.m. Overview of Evidence Based Medicine  
*Andrew Lee, MD*
- 7:45 a.m. - 8:10 a.m. Assessing the Evidence  
*Eric Eggenberger, DO*
- 8:10 a.m. - 8:35 a.m. Interpreting Best Evidence from Treatment Studies: Statistics from Trials and Beyond  
*Laura Balcer, MD, MSCE*
- 8:35 a.m. - 9:00 a.m. Interpreting Best Evidence for a New Diagnostic Test  
*Beau Bruce, MD*
- 9:00 a.m. - 9:25 a.m. Neuro-Ophthalmology Clinical Decision Making  
*Gregory Van Stavern, MD*
- 9:25 a.m. - 9:30 a.m. Concluding Remarks  
*Gregory Van Stavern, MD & Andrew Lee, MD*
- 9:30 a.m. - 9:35 a.m. Questions and Answers
- 9:35 a.m. – 10:00 a.m. **Coffee Break**

**10:00 a.m. – 12:00 p.m. IS IT IN THE RETINA? RETINAL MIMICS OF OPTIC NERVE DISEASE, WITH APPLICATIONS OF ELECTROPHYSIOLOGY [2 CME]** Pacific Ballroom  
*Moderators: Jeffrey Odel, MD & Byron Lam, MD*

Patients with unexplained visual loss, including those with occult retinal conditions, commonly present to the neuro-ophthalmologists. Advances in OCT, autofluorescence, and electrophysiology have facilitated the diagnosis of occult retinal conditions. This session will focus on the practical clinical use of these modalities in neuro-ophthalmic practice. Basic principle and methodology of each modality will be discussed as well as applications pertinent to specific occult retinal conditions.

Conditions that will be discussed in this session include the following:

- Retinal degenerations: Occult Macular Dystrophy, early Stargardt's, cone dystrophy, X-linked retinoschisis
- Retinal Inflammatory Diseases: AMN, AZOOR (including MEWDS, AIBSE, etc.), Annular AZOOR, retinal telangiectasia type 2, CAR, MAR,
- Other subtle retinal conditions: Macular vitreoretinal traction, post-acute retinal arterial or venous occlusion
- Toxic and nutritional conditions: Hydroxychloroquine, ethambutol, digoxin, vitamin A deficiency

At the conclusion of the symposium, attendees should be able to: 1) Learn the basic principles of OCT, autofluorescence and visual electrophysiologic testing; 2) Understand the clinical indications and applications of these modalities; and 3) Incorporate clinical modalities effectively in clinical practice in combination with history, examination, and other diagnostic tests.

- 10:00 a.m. - 11:00 a.m. How to Face Subtle Retinopathies in the Neuro-Ophthalmic Clinic by Using OCT and Autofluorescence  
*Richard Spaide, MD*
- 11:00 a.m. - 11:30 a.m. Electrophysiology Testing in Unexplained Visual Loss for the Neuro-Ophthalmologist  
*Byron L. Lam, MD*
- 11:30 a.m. - 11:50 a.m. Quiz - *Jeffrey G. Odel, MD*
- 11:50 a.m. - 12:00 p.m. Questions and Answers
- 12:00 p.m. Meeting adjourns**

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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 33.5 *AMA PRA Category 1 Credit(s)*<sup>TM</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 Pacific Foyer)

Saturday	2:00 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. Please contact the conference planning department at [info@nanosweb.org](mailto:info@nanosweb.org) or at (952) 646-2037 to discuss your needs.

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.

## SOCIAL EVENTS

Opening Reception – Saturday, February 5 – 7:00 p.m. - 8:30 p.m.

The Roof (15<sup>th</sup> Floor) at the Fairmont Hotel Vancouver. All are welcome to attend this opening reception, which features wine and cheese.

NANOS Annual Banquet – Wednesday, February 9 – 7:00 p.m. – 11:00 p.m.

Fairmont Hotel Vancouver, Columbia Ballroom

Join your colleagues for a fun, casual evening of socializing and dining. *Guests and children are welcome. Event is complimentary for attendees. Guest tickets are available for \$100. Pre-registration is required to help us with attendance guarantees.*

## OPTIONAL TOURS AND FREE TIME ACTIVITIES

**Yoga Class:** February 6 & 8 / 6:00 a.m. / Cost: FREE (pre-registration is required) maximum number of participants is 30/ session

**NOTE: The Yoga classes each have five spaces available as of January 7, 2011.**

Join us for a complete workout that will strengthen and stretch every area of your body. Our practice will blend the most effective postures from sun salutations to balance poses in a purposeful sequence. Emphasis is on strength and flexibility, so be prepared to breathe and sweat. All levels from newcomer to expert are welcome for 50 minutes of athletic yoga. Please bring water and a hand towel. Mats will be provided or bring your own. The class will be led by Peter Quiros. Classes will begin at 6 am sharp on Sunday and Tuesday.

**Vancouver City Tour:** February 8 / 12:30 p.m. – 4:30 p.m. / Cost: \$75 (includes boxed lunch)

*\*Based on availability*

An introduction to Canada's Olympic City and deemed by the EIU to be the "most livable city in the world" – Vancouver! Your guests will explore the hidden treasures of Stanley Park, Chinatown, Gastown and Granville Island.



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### *Optional Tours continued, Vancouver City Tour*

Stanley Park, the largest city park in Canada, is a lush and integral part of the cityscape. Originally a military installation, the area became 1,000 acres of protected forest and meadow with a 5.5 mile seawall, the world-renowned Vancouver Aquarium, two lakes, and a "Lost Lagoon".

Chinatown is one of the largest in Canada, and in North America. Originally settled by Chinese laborers in the 1870s, the distinctive character of the area is evident in the shops, street activity and colorful signage set against a back drop of distinctive masonry buildings.

It is difficult to imagine that Vancouver was originally referred to as Gastown or "Gassy's" after a gregarious adventurer/saloonkeeper named Captain John "Gassy Jack" Deighton. A statue of Gassy Jack in Maple Tree Square keeps this colorful character alive within the modern Vancouver context. Gastown is a charming mix of cobbled streets, Victorian architecture, a unique tangle of mews, courtyards and passages, boutiques, restaurants, apartments and offices.

Nestled in the centre of Canada's most beautiful city is a breathtaking island oasis that will capture your guest's heart and seduce their senses – Granville Island. Once an industrial area, Granville Island has a gazillion stories to tell. This gathering spot for both locals and tourists is an urban haven spilling over with fine restaurants, theatres, galleries and studios, and home to BC's most visited and best known public market, where visitors can find all things fresh: seafood, fruit, vegetables, plants, flowers, candy, fudge, breads and baked treats. You can browse for unique items crafted by top local talent — and watch these same artists and craftspeople creating their magic. It just doesn't stop! Step aboard and discover why we love Vancouver!

**North Shore Exploration:** *February 8 / 12:30 p.m. – 5:30 p.m. / Cost \$180 (includes boxed lunch)*

*\*Based on availability*

Explore the majestic beauty of Vancouver's natural habitats and experience the wonder of it all. This eco tour takes you out into the midst of the peace and serenity of nature's splendor... from the mountain peaks of the majestic North Shore Mountains to the Pacific shores of the busy Vancouver Harbour, there is no better view of the city and coastline!

You will board the gondola for a breathtaking eight-minute ascent to the 3,700 foot summit of Grouse Mountain. Upon disembarking, you can enjoy refreshments, then explore the mountain top trails and enjoy the panoramic views.

Then just a short distance away, you will visit Vancouver's famous Capilano Suspension Bridge for a unique, true wilderness experience. Everyone will enjoy a stroll through the misty canyon's 300-year-old west coast rainforest and over the swaying planks of a 450-foot long suspension bridge. You will have an amazing squirrel's eye view of a thriving coastal forest, without any cables or other structures above eye level, and without harming the trees in any way.

On the other side lies the new Treetops Adventure, the 650 foot long rainforest canopy walk made up of a series of cable bridges suspended between observation platforms that reach as high as 12 stories – an innovative engineering feat that secures each observation platform using a force that is approximately equivalent to the amount of pressure exerted when you press your thumb firmly on a tabletop! It is a unique and breathtakingly close encounter with the very heart of the forest. For the less adventurous, browse through the historic exhibits and an Indian Village replica; a visit to the gift shop is recommended!

Return to the city across beautiful Lion's Gate Bridge and the Stanley Park Causeway.



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*Optional Tours continued*

**Skiing or Snowboarding on Cypress Mountain:** *February 8 / 12:30 p.m. – 6:30 p.m. / Cost \$254 (includes boxed lunch, ski rental, boots & helmet, day lift ticket, and transfers)*

*\*Based on availability*

Cypress Mountain was the Official Freestyle Skiing and Snowboard Venue for the 2010 Olympic Winter Games. Cypress is only 30 minutes from downtown Vancouver and is proud to continue to provide our skiers, riders, and sliders with the most vertical drop, most terrain, most lifts, and best snow conditions on the highest skiing and riding peak of Vancouver's Legendary North Shore Mountains. Whether you are new to freestyle terrain or seasoned veterans, you will find features that match their ability and progression level.

**Cross Country Skiing on Cypress Mountain:** *February 8 / 12:30 p.m. – 6:30 p.m. / Cost \$135 (includes boxed lunch, ski rental, boots & helmet, day lift ticket, and transfers)*

*\*Based on availability*

With the best Winter Skiing & Riding in Vancouver, Cypress Mountain is Canada's most popular Cross Country destination, with a respected Ski School to match the beautiful and varied trail system.



## FACULTY LISTING

**Marie Acierno, MD**

*LSU Health Sciences Center,  
LSU Eye Center  
Baton Rouge, LA*

**Laura Balcer, MD, MSCE**

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