40TH BNI NEUROSURGERY SYMPOSIUM
Wednesday - Friday | May 14-16, 2014
Barrow Neurological Institute | Phoenix, Arizona

PRE-SYMPOSIUM WORKSHOP | Tuesday – Wednesday | May 13-14, 2014

EC-IC COURSE: PART 1 | Tuesday | May 13, 2014

1:00 PM Registration Check-In
1:30 PM Welcome From the Symposium Director
       Overview of EC-IC Bypass
       Low-Flow Bypass Applications and Techniques
       Peter Nakaji, MD
       Robert F. Spetzler, MD
       Joseph M. Zabramski, MD
2:15 PM Refreshment Break

2:30 PM Hands-On Experience: Silastic Models and Arteries
       Course Faculty

5:30 PM Adjournment

EC-IC COURSE: PART 2 | Wednesday | May 14, 2014

7:30 AM Registration Check-In
8:00 AM High-Flow Bypass Applications and Techniques
       Physiology and Flow in Bypass
       Bypass for Moyamoya Disease
       Bypass Case Review
       Peter Nakaji, MD
       Faculty to be determined
       John Wanebo, MD
       Nicholas C. Bambakidis, MD
9:15 AM Refreshment Break

9:30 AM Hands-On Experience: In Vivo Model
       Course Faculty

12:00 PM Adjournment
Wednesday | May 14, 2014

12:30 PM  Registration Check-In

1:00 – 3:15 PM
Welcome From the Symposium Director  
Robert F. Spetzler, MD
Neuromodulation for Cognitive Disorders: Experience, Evidence and Current Trials  
Francisco A. Ponce, MD
The Six Thalamic Regions. Surgical Approaches to Thalamic Cavernous Malformations: Operative Results and Clinical Outcomes  
Leonardo Rangel-Castilla, MD
Epilepsy in Children  
P. David Adelson, MD
Blood Transfusion in Craniosynostosis  
Ruth E. Bristol, MD
Comprehensive Management of Neurofibromatosis Type 2  
Gregory Lekovic, MD
Agony and Ecstasy: Case Review and Lessons Learned  
Mark Garrett, MD
Best Practice for Moyamoya Disease  
John E. Wanebo, MD
Agony and Ecstasy: Case Review and Lessons Learned  
Faculty to be determined

3:15 PM  Refreshment Break

3:30 – 5:00 PM
Interoperative MRI – A Review of 550 Cases: Agony or Ecstasy?  
Taro Kaibara, MD
Agony and Ecstasy: Case Review and Lessons Learned  
Michael Tymianski, MD
Role of Extracellular MicroRNA in CNS Cerebrovascular Disease  
Peter Nakaji, MD
Agony and Ecstasy: Case Review and Lessons Learned  
Matthew O. Hebb, MD
Is Speckle Angiography Superior to ICG?  
Douglas Fox, MD
Current Status of Peripheral Nerve Surgery  
Mark Mahan, MD

5:00 PM  Adjournment

5:00 PM  Sonntag Pavilion Dinner Lecture
Welcome and Introduction  
Robert F. Spetzler, MD
Is My Child’s Brain Really Safe in Contact Sports?  
Julian Bailes, MD and Nicholas Theodore, MD
TH \textbf{BNI NEUROSURGERY SYMPOSIUM}

\textbf{Thursday | May 15, 2014}

7:00 AM  Registration Check-In and Continental Breakfast

\textbf{8:00 – 10:00 AM}
Session Introduction
Agony and Ecstasy: Case Review and Lessons Learned
Endovascular Treatment of Acute Stroke: Trials and Tribulations?
Best Practice for AVMs
Panel Discussion
Surgery of Colloid Cysts of the Third Ventricle: Treatment Planning Algorithms
Best Practice for Acoustic Neuromas
Agony and Ecstasy: Case Review and Lessons Learned
10:00 AM  Refreshment Break

\textbf{10:30 AM – 12:00 PM}
Endovascular Techniques for the Management of DAVFs
Agony and Ecstasy: Case Review and Lessons Learned

12:00 PM  Lunch

\textbf{1:15 – 3:00 PM}
Complete Spondylectomy for Resection of Spinal Tumors
High-Grade Spondylolisthesis: When to Reduce It
Agony and Ecstasy: Case Review and Lessons Learned
From N of One to Infinity: A Tumor Vaccine Experience
Orthogonal and Midline Placement of Anterior Cervical Plates:
  Surgical Techniques with a PEEK-Based Template
Coming Up Short: Vertebral Osteotomy for Tethered Cord Syndrome
Agony and Ecstasy: Case Review and Lessons Learned

3:00 PM  Refreshment Break

\textbf{3:30 – 5:00 PM}
Current C1-C2 Fixation
Agony and Ecstasy: Case Review and Lessons Learned
Lessons from ARUBA
Resource Utilization and Health Economics in Pituitary Surgery
Phase 0 Clinical Trials for Brain Tumors
Agony and Ecstasy: Case Review and Lessons Learned

5:00 PM  Adjournment

\textbf{6:30 PM  Alumni and Attendee Dinner at the Home of Dr. and Mrs. Spetzler}
**WHO SHOULD ATTEND**
Neurosurgeons, nurses, residents and other healthcare providers with an interest in the application of best practices in the evaluation and appropriate treatment of patients with aneurysms, Moyamoya disease and other causes of stroke.

**SYMPOSIUM GOAL**
After participating in this symposium participants will be able to:
Objective 1: Discuss the role of extracranial-intracranial bypass techniques as well as their relevance in the treatment of occlusive cerebrovascular disease.
Objective 2: Apply the newest advances in fluorescence applications to neurosurgery cases.
Objective 3: Cite the newest intraoperative imaging techniques and apply them to brain tumor surgery.
Objective 4: Evaluate the use of different strategies of treating spinal vascular lesions.

**ACCREDITATION**
St. Joseph’s Hospital and Medical Center is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. St. Joseph’s Hospital and Medical Center designates this live activity for a maximum of 20 AMA PRA Category 1 Credits™. Physicians should claim only credit commensurate with the extent of their participation in the activity.

**What Did Attendees Say About the 39th Annual Barrow Neurosurgery Symposium:**
- Excellent Symposium!
- Thank you for putting this on every year.
- The meeting is a must.
- Well done - Great experience and training.
- Excellent and a wonderful learning experience.
- Real-life lessons from prominent experts in the field.
- 3-D Presentations – Great teaching images
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Barrow Neurological Institute | Phoenix, Arizona

Register Early! Take advantage of discounted registration fees.

Register Online: www.thebarrow.org

Pre-Symposium Extracranial and Intracranial Workshop
(Limited to 20 participants)

Tuesday-Wednesday | May 13-14, 2014

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Barrow Neurosurgery Symposium

Wednesday - Friday | May 14-16, 2014

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BNI Alumni and Attendee Dinner

Thursday | May 16, 2014

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Register online (www.thebarrow.org) or mail your registration form and payment to:
Lindsey Possehl | Conference Planning Office
Barrow Neurological Institute | 350 West Thomas Road | Phoenix, Arizona 85013 USA

Prefix (Dr., Mr., Ms.) Name Degree
Professional Title (Director, Neurosurgeon, etc.) Company/Institution
Address City State Zip/Postal Code
Telephone Fax Email Address

☐ Check or money order (payable to St. Joseph’s Hospital and Medical Center) (in US funds drawn on a US bank ONLY)
(A $20 charge applies to checks returned for insufficient funds)

☐ Visa ☐ MasterCard ☐ American Express
Card Number ________________________________ Expiration Date __________
Cardholder’s Name (if corporate card, give company name)____________________ Cardholder’s Signature____________________

For more information contact Veronica Baez | Email: Veronica.Baez@DignityHealth.org | Phone: 602.406.5743

Refund Policy: A refund, less $75.00 processing fee, will be made for cancellations submitted in writing prior to April 1, 2014. No refunds will be made thereafter. Barrow reserves the right to cancel or change any program for due causes. Cancellation of a program by Barrow will result in a full refund of tuition. Barrow and St. Joseph’s Hospital and Medical Center are not responsible for the refund of travel or hotel expenses under any circumstance.