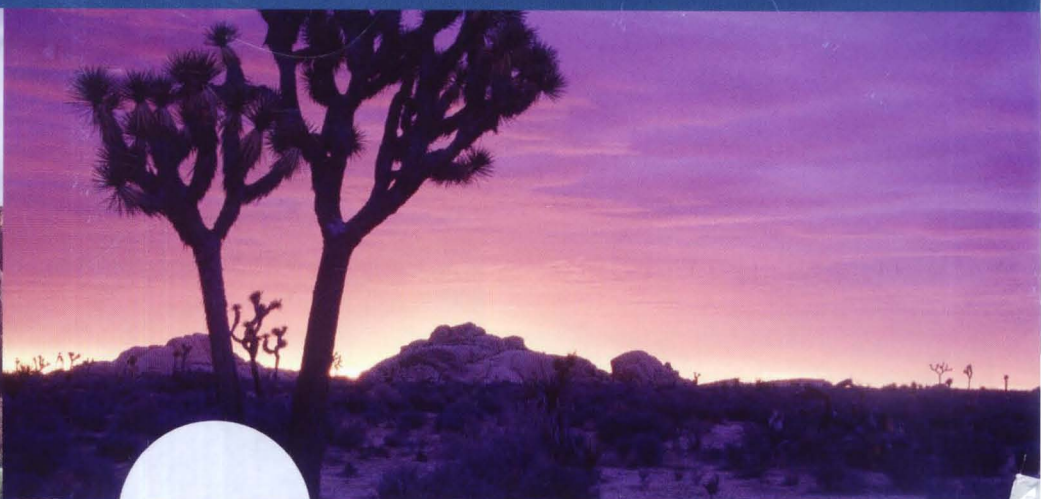
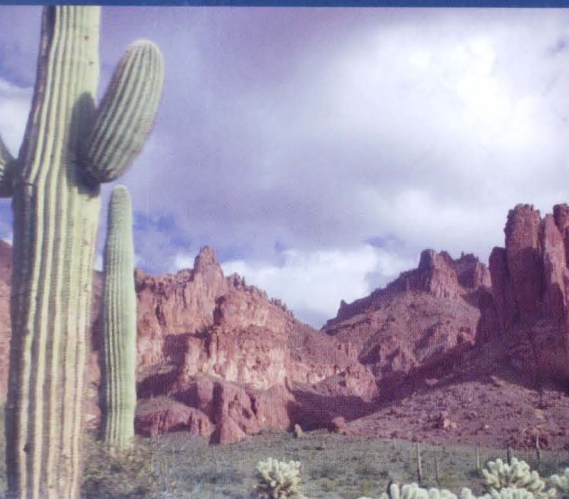




35th Annual Barrow Symposium

Innovations in Neuroscience

Phoenix, Arizona March 5 - March 6, 2009





35th Annual Barrow Symposium

Innovations in Neuroscience

Phoenix, Arizona
March 5 - March 6, 2009

Dear Colleague,

The 35th Annual Barrow Symposium: Advancements in Neuroscience for the Practicing Neurosurgeon in Phoenix, Arizona, is going to be an exciting annual meeting that will cover neurosurgery presentations and workshops with an emphasis on practical information that you will be able to use in your own practice.

Of course it wouldn't be a Barrow Symposium without featuring the latest in medical technology. This year is no exception. With the state-of-the-art TeleSuite facility, you have the opportunity to view a live surgery and interact with physicians in the operation room. In addition, video and case study workshops will allow you to share interesting cases and discuss them with colleagues in a small group setting.

In addition to an outstanding Symposium, we encourage you to explore the beauty of Phoenix, now the fifth largest city in the US. This desert oasis is a favorite vacation spot for outdoor enthusiasts—with more than 200 championship golf courses, jeep tours, hot air balloon rides and unlimited hiking and biking trails—there is always something to do and March is the perfect time to get outdoors. For those who love indulging in fabulous cuisine, spending the day at the spa, shopping, visiting museums or taking in a show, Phoenix will keep you coming back.

To make the registration process as simple as possible, we are offering on-line registration that is quick and easy. As an added incentive, an additional discount is being given to those who register early, so be sure to reserve your seat, as many workshops will sell out quickly.

We hope to see you in sunny Phoenix March 5 - March 6, 2009.



Robert F. Spetzler

Robert F. Spetzler, MD
Course Co-Director



Nicholas Theodore

Nicholas Theodore, MD
Course Co-Director

Course Goal

This year the focus is on neurosurgery. The course will provide attendees with a systematic review of the major subspecialties with a current assessment of diagnostic and treatment modalities available for individuals with neurosurgical disorders.

Overall Course Objectives

Demonstrate an understanding and provide a review of the treatment of vascular malformations and aneurysms. Compare open surgical techniques with the state of the art endovascular techniques.

Cite the history of the development of treatments for spinal disorders with a focus on vertebral and intramedullary spinal tumors.

List the various types of interventions for brain tumors that are now available, including surgical and imaging strategies.

Provide an overview of the diagnosis and management of pediatric hydrocephalus.



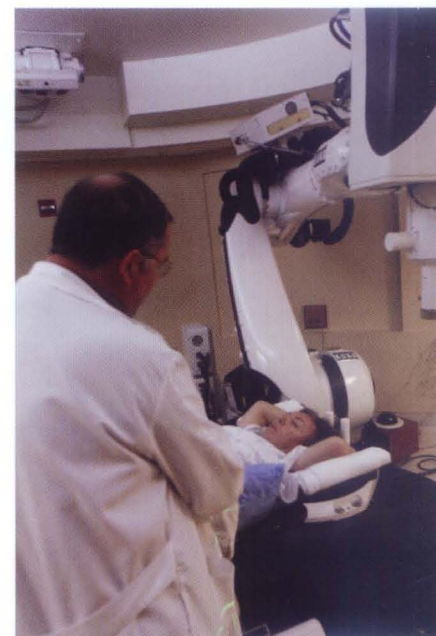
Time	Topic	Speaker
7:00	Registration & Breakfast	
7:55	Welcome	Robert F. Spetzler, M.D.
8:00	The Evolution of Cervical Spinal Instrumentation	Volker K. H. Sonntag, M.D.
8:30	Reaching the Impossible Locations in the Brain	Robert F. Spetzler, M.D.
9:00	Onyx for the Treatment of AVMs, Tumors & DAVFs	Felipe C. Albuquerque, M.D.
9:30	Update on Deep Brain Stimulation	Andrew G. Shetter, M.D.
10:00	Break	
10:30	Advances in the Treatment of Pituitary Tumors	William L. White, M.D.
11:00	Advances in Brain Tumor Therapy	Henry Brem, M.D.
11:30	Stop the Bleeding: Anticoagulation in Neurosurgery	Joseph M. Zabramski, M.D.
12:00	New Frontiers in Endoscopy	Peter Nakaji, M.D.
12:30	Lunch	
1:30	Oh My Aching Back: The Multimodality Treatment of Low Back Pain	Gregory L. Umphrey, M.D.
2:00	Integrated Imaging in the Resection of Gliomas	Kris A. Smith, M.D.
2:30	Neurosurgical Treatment of Spinal Deformity	Curtis A. Dickman, M.D.
3:00	Break	
3:30	Endovascular Treatment of Aneurysms: An Update	David Fiorella, M.D., Ph.D.
4:00	Definition & Classification of Hydrocephalus: Why it Matters	Harold L. Rekate, M.D.
4:30	Microsaccades: Windows on the Mind	Susana Martinez-Conde, PhD
5:00	Adjourn	

Live Surgery via the Barrow TelePresence Conference Room

Be part of the futuristic operating room today with the latest in telepresence technology in the Barrow TelePresence Conference Room. Participants have the opportunity to interact with the surgeon in real time and be part of the OR experience without leaving their seats. The conference room is complete with four main screens with each individual seat complete with a separate pop-up computer screen which allows participants to view what is being seen under the scope as the surgeon views the surgery. This technology is also used to broadcast surgical video, provide medical consults and enhance medical education around the globe. We invite you to be part of the operating room via the Barrow TelePresence Conference Room at the Symposium during a Live Surgery Workshop on March 5, 2009. Make sure to register as seating is limited.

Friday, March 6, 2009

Time	Topic	Speaker
7:30	Registration & Breakfast	
7:30	Resident Conference	
8:30	Developing New Treatments for Brain Tumors	Henry Brem, M.D.
9:00	Brain Computer Interface	Francisco Ponce, M.D.
9:30	Management of Epilepsy for the Neurosurgeon	David Treiman, M.D.
10:00	Break	
10:30	Communities for a Cure: A Model for Personal Health Records	Alan Pitt, M.D.
11:00	Vertebral Column Tumors: Reconstructing the Spine	Nicholas Theodore, M.D.
11:30	Management of Intramedullary Spinal Cord Tumors	Robert F. Spetzler, M.D.
12:00	Endovascular Management of Stroke	Cameron G. McDougall, M.D.
12:30	Lunch	
1:30	Neurotrauma Update: Today and Tomorrow	Nicholas Theodore, M.D.
2:00	Where Did I Leave My Keys: Alzheimers Update	Patricio Reyes, M.D.
2:30	Pediatric Brain Tumors: What's New?	Ruth Bristol, M.D.
3:00	Break	
3:30	Research in Real Time	Shez Partovi, M.D.
4:00	Current Management of Acoustic Neuromas	Randall Porter, M.D.
4:30	Update on Intraoperative MR at 3 Tesla	Taro Kaibara, M.D.
5:00	Adjourn	



35th Annual Barrow Symposium Faculty

Felipe C. Albuquerque, M.D.
Co-Director, Endovascular
Neurosurgery Program
Barrow Neurological Institute

Henry Brem, MD
Director, Department of Neurosurgery
Johns Hopkins University School of Medicine

Curtis A. Dickman, MD
Associate Chief, Spine Section
Barrow Neurological Institute

David Fiorella, MD, PhD
Staff, Interventional and
Diagnostic Neuroradiologist
Barrow Neurological Institute

Taro Kaibara, MD
Neurosurgeon
Barrow Neurological Institute

Susana Martinez-Conde, PhD
Director, Laboratory of Visual Neuroscience
Barrow Neurological Institute

Cameron G. McDougall, MD
Director, Endovascular Neurosurgery Program
Lou & Evelyn Grubb Chair for
Neurovascular Research
Barrow Neurological Institute

Peter Nakaji, MD
Director of Neurosurgical ICU
Barrow Neurological Institute

Shahram Partovi, MD, CM
Chief Medical Information Officer
Catholic Healthcare West

Francisco Ponce, MD
Neurosurgery Resident
Barrow Neurological Institute

Randall W. Porter, MD
Medical Director, Gamma Knife Program
Co-Director, CyberKnife
Barrow Neurological Institute

Harold L. Rekate, MD
Chairman, Pediatric Neurosciences
Director, Pediatric Neurological Surgery
Program
Barrow Neurological Institute

Patricio F. Reyes, MD
Program Director, Cognitive Disorders Program
Barrow Neurological Institute

Andrew G. Shetter, MD
Director, Pain and Stereotactic
Neurological Program
Director, Atkinson Pain Research Laboratory
Barrow Neurological Institute

Kris A. Smith, MD
Medical Director, Gamma Knife Center
Barrow Neurological Institute

Volker K.H. Sonntag, MD
Vice Chairman, Division of Neurological Surgery
Director, Neurological Surgery
Residency Program
Co-Director, Spine Program
Alumni Spine Chair of Neurological Surgery
Barrow Neurological Institute

Robert F. Spetzler, MD
Director, Barrow Neurological Institute
J.N. Harber Chairman of Neurological Surgery
Barrow Neurological Institute

Nicholas Theodore, MD, FACS
Director, Neurosurgical Trauma
Associate Director, Neurosurgery
Residency Program
Barrow Neurological Institute

David M. Treiman, MD
Director, Epilepsy Center
Vice Chair, Division of Neurology
Newsome Chair in Neurology
Barrow Neurological Institute

Gregory L. Umphrey, MD
Associate Director
Barrow Neurosurgical Associates
NeuroSpine & Rehab Center

William L. White, MD
Director, Surgical Neuroendocrine Program
Barrow Neurological Institute

Joseph M. Zabramski, MD
Chairman, Section of Cerebrovascular Surgery
Director, Neurosurgical Research
Barrow Neurological Institute

Greater Phoenix is referred to as the "Resort Capital of the World" by many travel-industry professionals. There are dozens of luxurious total-destination resorts. Listed below are just a few that are within easy access to Barrow Neurological Institute.

Hilton Suites
10 E. Thomas Road
Phoenix, AZ 85012
602.222.1111
Barrow ID: 0701078
www.phoenixsuites.hilton.com

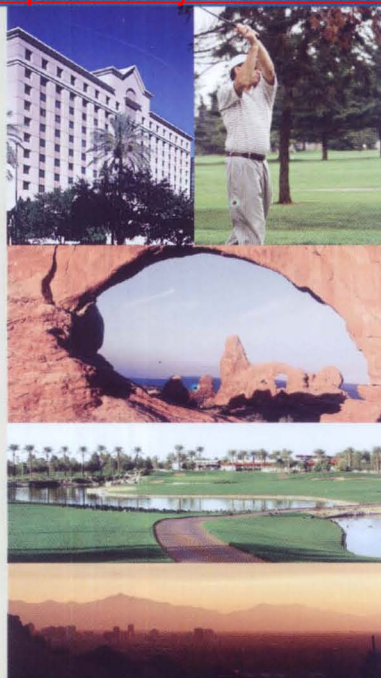
Hampton Inn
160 W. Catalina Drive
Phoenix, AZ 85013
602.200.0990
www.hamptoninn.com

Hilton Garden Inn
4000 N. Central Avenue
Phoenix, AZ 85012
602.279.9811
www.hiltongardeninn.com

Ritz-Carlton Phoenix
2401 E. Camelback Road
Phoenix, AZ 85016
602.468.0700
Corporate ID: BARROW
www.ritzcarlton.com

Arizona Biltmore Resort and Spa
2400 E. Missouri Avenue
Phoenix, AZ 85016
602.955.6600
www.arizonabiltmore.com

The Phoenician Scottsdale
6000 E. Camelback Road
Scottsdale, AZ 85251
480.941.8200
www.thephoenician.com



Travel Discounts and Information

Remember, register by **January 30, 2009** and take advantage of the \$100 early-registration discount. Visit www.thebarrow.com/conferences and register online, or use the registration form on the following page of this brochure.

Ground transportation:

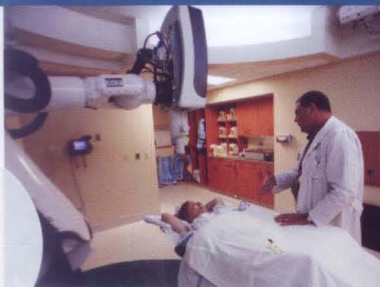
Enterprise Rent-A-Car is offering a discount for Symposium attendees.

Call 1-800-rent-a-car and reference Corporate ID# 50C0151 for details.

Super Shuttle (Blue Vans) are available from Phoenix Sky Harbor Airport to any location in the Phoenix Metropolitan area.

Call 1-800-BLUE-VAN [1-800-258-3826] or visit www.supershuttle.com.

Barrow Neurological Institute

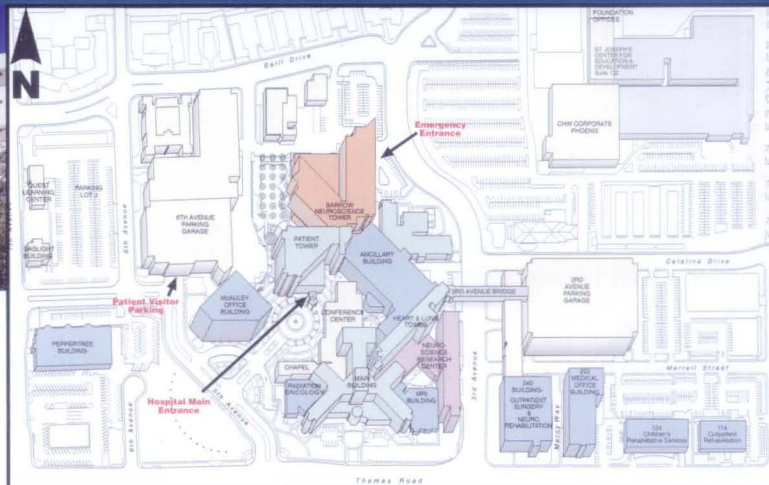


Barrow Neurological Institute, recognized by *US News and World Report* for the quality of its neurological and neurosurgical care, attracts patients, medical students and physicians from around the globe.

Advances in neuroradiology, hydrocephalus management, neuro-oncology, epilepsy, and endovascular, cerebrovascular and spine neurosurgery have brought international recognition to Barrow physicians and scientists.

As one of the largest full-service neuroscience centers in the country, Barrow offers complete neurological and neurosurgical care for adults and children. Barrow's advanced technology and comprehensive services ensure that patients receive the most accurate and effective treatment possible. These services include:

- A Level 1 Trauma Center
- Specialized Neurological Care



CHW Arizona
St. Joseph's Hospital and Medical Center
350 W. Thomas Rd.
Phoenix, AZ 85013

Address Service Requested

BARROW SYMPOSIUM REGISTRATION

This document is provided by www.scientificspine.com

Name: (first) _____ (MI) _____ (last) _____

(MD) (PhD) () Address: _____

City: _____ State: _____

Zip/Postal Code: _____ Country: _____

Business Phone: () _____ Fax: () _____

Institution: _____

Email: _____

BARROW SYMPOSIUM		Early Registration before 1/30/09	Registration after 1/30/09
Physicians		\$350	\$450
Residents, Fellows*		\$125	\$150
NPs/PAs/CNRNs		\$250	\$325
Wednesday, March 4, 2009 Workshop limited to 20 participants			
A Day in the BNI OR+			
Thursday, March 5, 2009			
7:00 pm	BNI Alumni/Attendee Dinner	\$50	\$50
Friday, March 6, 2009 Workshop limited to 20 participants			
Live Surgery		\$0	
Saturday, March 7, 2009 Workshop limited to 20 participants			
Surgery of the Craniovertebral Junction+			
TOTAL			

Registration fee includes daily continental breakfast, lunch and course syllabus.

*Residents/Fellows need a letter of confirmation from their Program Director.

See website for Registration Details.



BNI Alumni/Attendee Dinner

\$50.00 per person

Thursday, March 5, 2009

Come join your colleagues and Barrow faculty for an evening of food, fun & networking. The evening will begin at 7:00 pm at the home of Dr. Spetzler. Maps will be available at registration.

PAYMENT DETAILS:

Registration fee includes daily continental breakfast, lunch, course syllabus and certificate of attendance. Please send check and completed registration form to:

Barrow Neurological Institute Conference Planning Office

Attn: Lindsey Kerby

350 W. Thomas Rd.

Phoenix, AZ 85013 USA

Inquiries should be directed to the above address or by phone at 602-406-3067.

- Check or money order payable to: Barrow Neurological Institute (US funds only please
- A \$20 charge will apply to checks returned for insufficient funds)

Charge my:

○ American Express

○ Visa

○ MasterCard

Card Number: _____

Exp. Date: _____

Verification Number: _____

Billing Zip Code: _____

Name on card:

Signature: _____

Date: _____

I authorize Barrow Neurological Institute to charge the amount determined by Barrow Neurological Institute as registration fees to my credit card.

St. Joseph's Hospital and Medical Center (SJHMC) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. SJHMC designates this educational activity for a maximum of 13.5 AMA PRA Category 1TM credit(s)*. Physicians should only claim credit commensurate with the extent of their participation in the activity. It is policy of SJHMC to ensure balance, independence, objectivity, and scientific rigor in all sponsored or jointly sponsored educational activities. Any individual who is in a position to control the content of the educational activity, including course or activity directors, planning committee members, staff, teachers, or authors of CME, must disclose all relevant financial relationships and the nature thereof that they or any member of their family have with any commercial interest(s). The ACCME describes relevant financial relationships as those in any amount occurring within the past 12 months that create a conflict of interest. Individuals who refuse to disclose will be disqualified from participation in the development, management, presentation, or evaluation of the CME activity.

Refund Policy

A refund, less \$75.00 processing fee, will be made for cancellations prior to January 30, 2009. All refund requests must be submitted in writing by January 30, 2009. No refunds will be made thereafter.

Early Registration Discount
Register by January 30, 2009 and
SAVE \$100