



Greater Boston Convention & Visitors Bureau

*6<sup>th</sup> International Congress on*  
**Meningiomas and Cerebral  
Venous System**

September 3 – 6, 2008

John B. Hynes Veterans Memorial Convention Center  
Boston, Massachusetts, United States

Congress Host: Peter M. Black, MD, PhD

[www.TheMeningiomaConference2008.org](http://www.TheMeningiomaConference2008.org)



American  
Association of  
Neurological  
Surgeons



BRIGHAM AND  
WOMEN'S HOSPITAL  
Department of Neurosurgery

Jointly Sponsored by the AANS

**Preliminary Program**

## Dear Colleague:

On behalf of the program committee, I would like to welcome you to the **6<sup>th</sup> International Congress on Meningiomas and Cerebral Venous System**. Taking place in the seaside city of Boston from September 3 – 6, 2008, it promises to be an exciting and enjoyable meeting for neurosurgeons, radiation oncologists, neuro-oncologists, scientists, nurses and anyone else interested in these tumors.

Meningiomas and cavernous angiomas are now recognized to be increasingly important. They are quite common and decision-making about their therapy is increasingly complex. Radiation, surgery, observation and perhaps chemotherapy are important options for their care. The conference will feature leading speakers in meningioma and cavernous angioma science and treatment. Among the topics covered in the program enclosed are surgical techniques for meningiomas of the skull base, cranial vault and other sites; surgery for cavernous angiomas; the role and outcome of radiation for meningiomas; guidelines for surgery; new understandings of meningioma pathogenesis; and star wars techniques for treating these tumors noninvasively. The speakers are the most accomplished and well known in the world. There are breakfast seminars, plenary sessions, submitted papers and posters, and *How-I-Do-It* sessions. The format will be interactive and comprehensive; this is the most wide-ranging and up-to-date program on meningiomas ever presented.

Additionally, there will be a Meningioma Awareness Day (MAD) for patients, caregivers and professionals on Saturday, September 6. This will bring research and clinical topics to an audience of patients, caretakers and family members.

We also think you will enjoy our social program. On Wednesday night we will have an Opening Reception featuring a *Taste of Boston*, Thursday night you can enjoy Boston on your own, and on Friday night an international night where national dress is strongly encouraged. The daily program for spouse and guests will provide a rich possibility of seeing the history, architecture and educational institutions of Boston.

Information can be obtained on the Web site [www.TheMeningiomaConference2008.org](http://www.TheMeningiomaConference2008.org). We are honored to welcome you to Boston for this exciting international conference.

Sincerely,



Peter M. Black, MD, PhD  
Congress Host



## WHO SHOULD ATTEND

These educational sessions will be directed towards neurosurgeons, radiation oncologists, neuro-oncologists, scientists, nurses and any others interested in these tumors.

### Claim CME Credit the Easy Way!

Attendees will self-report CME credit for the programs they attend by going online to [www.MyAANS.org](http://www.MyAANS.org). Please have your username (e-mail address) and password available during and after the meeting for convenient submission. Once logged in, click on "Self-Reporting" on the left and choose 'Meningioma and Cerebral Venous System Conference'.

## Continuing Medical Education Credit

This activity has been planned and implemented in accordance with the Essentials and Standards of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the AANS and the Meningiomas and Cerebral Venous System Conference. The ACCME accredits the AANS to provide continuing medical education for physicians. The AANS designates this educational activity for up to a maximum of 24.25 AMA PRA Category 1 Credit(s)<sup>™</sup>.

Physicians should only claim credit commensurate with the extent of their participation in the activity.

Disclosure: Before the program, all faculty will disclose the existence of any financial intent and/or other relationship they might have with manufacturer(s) of any commercial product to be discussed during their presentation.

*Our mission is to create a world-class exciting, up-to-date, interactive, authoritative meeting on meningiomas and the cerebral venous system.*

### Conference Learning Objectives

Upon completion of this conference, participants should be able to:

1. State seven surgical approaches to skull base and other meningiomas.
2. Name three indications for radiation in meningioma treatment.
3. Identify four new developments in the science of meningiomas including molecular biology, epidemiology and outcome analysis.
4. List four possible treatments for cavernous angiomas and other venous problems.

### Plenary Sessions

The plenary sessions will provide internationally renowned speakers on the major topics in meningiomas and cerebral veins: skull base meningiomas, convexity and parasagittal meningiomas, and spinal meningiomas; new techniques including endoscopy, robotics, nanotechnology, basic science, proton beam and cyberknife radiation; and the management of cavernomas.

#### LEARNING OBJECTIVES

Upon completion of these sessions, participants should be able to:

1. State four approaches to skull base meningiomas and three types of

- radiation that can be used.
2. Describe three types of radiation that can cause meningiomas.
3. Describe three new techniques for dealing with these tumors.

### Breakfast Seminars

The breakfast seminars each morning will provide an opportunity for participants to study different approaches to many of the most important meningiomas: petroclival, cavernous sinus, cerebellopontine angle, orbital, ventricular, tuberculum sellae, tentorial, clinoidal, radiation induced, and atypical; and to learn about history, decision-making, models, and imaging of these tumors. There will be an emphasis on interaction and discussion with world experts in an informal setting.

#### LEARNING OBJECTIVES

Upon completion of these seminars, participants should be able to:

1. Describe surgical and radiation therapy approaches to several kinds of meningiomas.
2. Identify decision-making surgery options for meningiomas, including what imaging to use.

### Video and How-I-Do-It Sessions

Video and How-I-Do-It sessions have world experts discussing their approaches to meningioma decision-making in general, to imaging and to

the surgical removal of meningiomas involving bone and paranasal sinuses, cavernous sinus meningiomas, olfactory groove meningiomas, jugular foramen and foramen magnum meningiomas, dural arteriovenous fistulae and endoscopy.

#### LEARNING OBJECTIVES

Upon completion of these sessions, participants should be able to:

1. Describe the approaches to at least four complex meningiomas.
2. Define the use of imaging and minimally invasive surgery for these tumors.

### Oral Presentations and Electronic Posters

The presentation of new work by surgeons and investigators is one of the most important features of this conference. Participants will be able to hear the very latest in surgical techniques and other approaches to meningiomas, as well as, to discuss the presentations in detail.

#### LEARNING OBJECTIVES

Upon completion of these presentations, participants should be able to:

1. Define at least five new approaches to meningiomas.
2. Describe new data about the molecular biology of these tumors.

# Wednesday, September 3

12:00 - 8:00 PM

Registration

6:30 - 8:30 PM

**OPENING RECEPTION**

Marriott Copley Place Hotel

# Thursday, September 4

7:00 AM - 5:00 PM

Registration

7:30 - 9:00 AM

Breakfast Seminars

BREAKFAST SEMINAR #101

**HISTORY OF MENINGIOMAS**

Moderator: Edward R. Laws Jr., MD (Boston, MA)

**General History**

Edward R. Laws Jr., MD (Boston, MA)

**Italian Contributors to Meningioma Surgery**

Francesco Tomasello, MD (Messina, Italy)

**Cushing and Meningiomas**

Aaron A. Cohen-Gadol, MD (Indianapolis, IN)

**A History of Meningioma Science**

Rudolph Fahlbusch, MD, PhD (Hannover, Germany)

BREAKFAST SEMINAR #102

**ALGORITHMS FOR DECISION MAKING IN MENINGIOMA SURGERY**

Moderator: A. El Khamlichi, MD (Rabat, Morocco)

**The CLASS Algorithm**

Joung H. Lee, MD (Cleveland, OH)

**The Rabat Algorithm**

A. El Khamlichi, MD (Rabat, Morocco)

**The Keio Algorithm**

Takeshi Kawase, MD (Tokyo, Japan)

BREAKFAST SEMINAR #103

**UNDERSTANDING MENINGIOMA TUMORIGENESIS**

Moderator: Michel Kalamarides, MD, PhD (Clichy, France)

**VEGF and Meningiomas**

Engelbert Knosp, MD (Vienna, Austria)

**Meningioma Xenografts: Fine Tuning and Drug Testing**

Randy Lynn Jensen, MD, PhD (Salt Lake City, UT)

**Transgenic Models of Meningioma**

Michel Kalamarides, MD, PhD (Clichy, France)

BREAKFAST SEMINAR #104

**PETROCLIVAL MENINGIOMAS**

Moderator: Albino P. Bricolo, MD (Verona, Italy)

Speakers: William T. Couldwell, MD, PhD (Salt Lake City, UT); Albino P. Bricolo, MD (Verona, Italy); Harry R. van Loveren, MD (Tampa, FL); Volker Seifert, MD, PhD (Frankfurt, Germany)

BREAKFAST SEMINAR #105

**CEREBELLOPONTINE ANGLE MENINGIOMAS**

Moderator: Kalmon D. Post, MD (New York, NY)

**Surgical Approaches**

Carl B. Heilman, MD (Boston, MA)

**Surgical Outcomes**

Kalmon D. Post, MD (New York, NY)

**Monitoring of Cranial Nerves**

Vern Gugino (Boston, MA)

**Radiation Therapy**

Stephanie Weiss, MD (Boston, MA)

BREAKFAST SEMINAR #106

**ORBITAL AND VENTRICULAR MENINGIOMAS**

Moderator: Fred Gentili, MD (Toronto, Canada)

**Orbital Meningioma Surgery**

Fred Gentili, MD (Toronto, Canada)

**Ventricular Meningioma Treatment**

Minna Oinas, MD (Little Rock, AR)

**Large Ventricular Meningiomas**

Atul Goel, MD (Parel Mumbai, India)

**Fractionated Radiosurgery for Frontal Base Meningiomas**

Mario Ammirati, MD (Columbus, OH)

9:15 - 9:30 AM

**OPENING CEREMONIES & WELCOME**

Speakers: Peter M. Black, MD, PhD (Boston, MA); Jacques Brotchi, MD, PhD (Brussels, Belgium); Arthur L. Day, MD, FACS (Boston, MA); Takeshi Kawase (Tokyo, Japan)

9:30 - 11:10 AM

SCIENTIFIC SESSION I:

**SKULL BASE MENINGIOMAS**

Moderators: Ossama Al-Mefty, MD (Little Rock, AR); Takeshi Kawase, MD (Tokyo, Japan)

**A General Approach to Skull Base Meningiomas**

John M. Tew Jr., MD (Cincinnati, OH)

**Skull Base Anatomy: Special Considerations for Surgical Approaches**

Jeff Keller, MD (Cincinnati, OH)

**Specialized "Skull Base" Surgical Approaches are Necessary for Skull Base Meningiomas**

Ossama Al-Mefty, MD (Little Rock, AR)

**Changing Surgical Concepts for Skull Base Meningiomas**

Franco De Monte, MD, FACS (Houston, TX)

**Small Flaps for Skull Base Meningiomas**

Takeshi Kawase, MD (Tokyo, Japan)

**Radiosurgery for Skull Base Meningiomas**

William Friedman, MD (Gainesville, FL)

11:10 - 11:40 AM

Coffee Break and Poster Viewing

11:40 AM - 1:20 PM

SCIENTIFIC SESSION II:

**MANAGEMENT OF SPECIFIC SKULL BASE TUMOR TYPES**

Moderators: Rudolph Fahlbusch, MD, PhD (Hannover, Germany); Necmettin M. Pamir, MD, Prof. (Istanbul, Turkey)

**Management of Frontal Skull Base Meningiomas**

Amin Kassam, MD (Pittsburgh, PA)

**Evidence-Based Paradigms for Managing Cavernous Sinus Meningiomas**

Necmettin M. Pamir, MD, Prof. (Istanbul, Turkey)

**Evidence-Based Management of Intra and Suprasellar Meningiomas**

Rudolph Fahlbusch, MD, PhD (Hannover, Germany)

**Management of Temporal Region Meningiomas**

Ali F. Krisht, MD (Little Rock, AR)

12:15 - 1:20 PM

**ORAL ABSTRACTS**

1:20 - 2:15 PM

Lunch in the Exhibit Hall

2:15 - 3:55 PM

SCIENTIFIC SESSION III:

**NON-SKULL BASE MENINGIOMAS**

Moderators: Peter M. Black, MD, PhD (Boston, MA); Jacques Brotchi, MD, PhD (Brussels, Belgium)

**Optimum Management of Parasagittal Meningiomas**

Jacques Brotchi, MD, PhD (Brussels, Belgium)

**Managing Venous Sinuses in Meningioma Surgery**

Marc P. Sindou, MD, DSc (Bron Cedex, France)

**Techniques, and Outcomes in Convexity Meningiomas**

Peter M. Black, MD, PhD (Boston, MA)

**Spinal Cord Meningiomas**

Jacques Brotchi, MD, PhD (Brussels, Belgium)

**Management of Aggressive Meningiomas**

Hee-Won Jung, MD (Seoul, Korea)

3:55 - 4:30 PM

**Coffee Break and Poster Viewing**

4:30 - 6:00 PM

**HOW-I-DO-IT SESSION I:****WORLD DECISION MAKING IN MENINGIOMAS**

Moderator: John M. Tew Jr., MD (Cincinnati, OH)

**General Challenges in Decision-Making in Meningiomas**

John M. Tew Jr., MD (Cincinnati, OH)

**Meningioma Decision-Making in China**

Jizong Zhao, MD (Beijing, People's Republic of China)

**Meningioma Decision-Making in the USA**

Michael W. McDermott, MD (San Francisco, CA)

**Meningioma Decision-Making in Germany**

Manfred Westphal, PhD, MD (Hamburg, Germany)

4:30 - 6:00 PM

**HOW-I-DO-IT SESSION II:****MENINGIOMA IMAGING**

Moderator: H. Maximilian Mehdorn, MD, Prof. (Kiel, Germany)

**Automated Tumor Growth Detection**

Ron Kikinis, MD (Boston, MA); Kilian M. Pohl (Boston, MA)

**MR Spectroscopy**

H. Maximilian Mehdorn, MD, Prof. (Kiel, Germany)

**Radiology to Evaluate Tumor in Growth**

Toshiki Yoshimine, MD, PhD (Osaka, Japan)

4:30 - 6:00 PM

**VIDEO SEMINAR I:****SELECTED MENINGIOMA TYPES**

Moderator: Frederick G. Barker II, MD, FACS (Boston, MA); Volker Seifert, MD, PhD (Frankfurt, Germany)

**Cerebellopontine Angle Meningiomas**

Frederick G. Barker II, MD, FACS (Boston, MA)

**Ventricular Meningiomas**

Peter A. Winkler, MD (Munich, Germany)

**Jugular Foramen Meningiomas**

Jose Alberto Landeiro, MD (Rio de Janeiro, Brazil)

**Surgical Approaches and Outcomes for Posterior Fossa Meningiomas**

Volker Seifert, MD, PhD (Frankfurt, Germany)

4:30 - 6:00 PM

**VIDEO SEMINAR II:****PETROCLIVAL MENINGIOMAS**

Moderator: Hee-Won Jung, MD (Seoul, South Korea)

Speakers: Hee-Won Jung, MD (Seoul, South Korea); Luis Alencar Borba, MD (Curitiba, Brazil); Kazuhiko Fujitsu, MD (Yokohama, Kanagawa Japan); Ibrahim Sbeih, MD, Prof. (Amman, Jordan)

6:00 - 7:00 PM

**Wine & Cheese Reception & Poster Viewing with Exhibitors**

Exhibit Hall D, Hynes Veterans Memorial Convention Center

**Friday, September 5**

7:00 AM - 4:00 PM

**Registration**

7:30 - 9:00 AM

**Breakfast Seminars****BREAKFAST SEMINAR # 201****MENINGIOMA INITIATION, PROGRESSION AND NATURAL HISTORY**

Moderator: Toshiki Yoshimine, MD (Suita-shi, Japan)

**Natural History**

Hidetoshi Kasuya, MD (Tokyo, Japan)

**Meningioma Stem Cells**

Mark D. Johnson, MD (Boston, MA)

**Molecular Markers of Progression**

Rona S. Carroll, PhD (Boston, MA)

**Growth Rates and Patterns of Asymptomatic Meningiomas**

Toshiki Yoshimine, MD, PhD (Osaka, Japan)

**Multiple Meningiomas**

Tuncalp Ozgen, MD, Prof. (Istanbul, Turkey)

**BREAKFAST SEMINAR # 202****MANAGEMENT OF ATYPICAL AND MALIGNANT MENINGIOMAS**

Moderator: Jun Yoshida, MD, PhD (Nagoya Aichi, Japan)

**Characteristics of Atypical Meningiomas**

Jun Yoshida, MD, PhD (Nagoya Aichi, Japan)

**Surgery and Biology for Atypical Meningiomas**

Ossama Al-Mefty, MD (Little Rock, AR)

**Atypical Meningioma Management**

Isao Ito, MD (Aichi, Japan)

**Radiology for Atypical Meningiomas**

Takanori Ohnishi, MD, Prof. (Ehime, Japan)

**BREAKFAST SEMINAR # 203****IMAGE GUIDANCE IN MENINGIOMA SURGERY**

Moderator: Gail L. Rosseau, MD (Chicago, IL)

**Preoperative Planning**

Alexandra J. Golby, MD (Boston, MA)

**Intraoperative Imaging**

Garnette Roy Sutherland, MD, FRCS(C) (Calgary, Canada)

**Intraoperative Imaging**

Mitsunori Matsumae, MD, DMSc (Kanagawa, Japan)

**Image Guidance for Surgery and Radiosurgery**

Gail L. Rosseau, MD (Chicago, IL)

**BREAKFAST SEMINAR # 204****TENTORIAL MENINGIOMAS**

Moderator: Thomas C. Origitano, MD, PhD (Maywood, IL)

**Venous Sinuses in the Surgical Removal of Tentorial Meningiomas**

Benedicto Oscar Colli, MD (Ribeirao Preto, SP Brazil)

**Surgery for Tentorial Meningiomas**

Christianto B. Lumenta, MD (Munich, Germany)

**Surgery for Tentorial Meningiomas**

Thomas C. Origitano, MD, PhD (Maywood, IL)

**Fractionated Radiotherapy for Tentorial and Other Meningiomas**

Mario Ammirati, MD (Columbus, OH)

**BREAKFAST SEMINAR # 205****CLINOIDAL MENINGIOMAS**

Moderator: Necmettin M. Pamir, MD, Prof. (Istanbul, Turkey)

**Definition and Management**

Necmettin M. Pamir, MD, Prof. (Istanbul, Turkey)

**Clinoidal Meningiomas in China**

Jianjian Tang IV, MD (Zhou Shan, People's Rep. of China)

**Surgical Approaches for Clinoidal Meningiomas**

Harry R. van Loveren, MD (Tampa, FL)

9:15 - 11:15 AM

**SCIENTIFIC SESSION IV:****NEW CONCEPTS IN MENINGIOMAS**

Moderators: Michael Kalamarides, MD (Clichy, France); Michael W. McDermott, MD (San Francisco, CA)

**Endoscopy for Meningiomas**

Enrico DeDivitis, MD (Napoli, Italy)

**Robotics**

Garnette Roy Sutherland, MD, FRCS(C) (Calgary, Canada)

**Meningioma Progression**

Michael W. McDermott, MD (San Francisco, CA)

**Pre-Clinical Models of Meningiomas**

Michel Kalamarides, MD, PhD (Clichy, France)

10:35 - 11:15 AM

**ORAL ABSTRACTS**

11:15 - 11:35 AM

**Coffee Break in the Exhibit Hall**

11:35 AM - 1:15 PM

## SCIENTIFIC SESSION V:

**RADIATION, CHEMOTHERAPY AND MENINGIOMAS**

Moderator: Patrick Wen, MD (Boston, MA)

**Radiosurgery and Fractionated Radiotherapy for Meningiomas**

Naren Ramakrishna (Boston, MA)

**Proton Beam Radiation for Meningiomas**

Helen Shih, MD (Boston, MA)

**Potential Chemotherapies for Meningiomas**

Patrick Wen, MD (Boston, MA)

**Radiation-Induced Meningiomas**

Felix Umansky, MD, Prof. (Jerusalem, Israel)

12:40 - 1:15 PM

**ORAL ABSTRACTS**

1:15 - 2:00 PM

**Lunch in the Exhibit Hall**

2:00 - 3:00 PM

## SPECIAL SESSION A:

**EPIDEMIOLOGY OF MENINGIOMAS**

Moderator: Elizabeth B. Claus, MD, PhD (New Haven, CT)

**Molecular Epidemiology**

Elizabeth B. Claus, MD, PhD (New Haven, CT)

**The Israeli Tinea Capitis Radiation Cohort**

Siegal Sadetzki, MD (Tel Hashomer, Israel)

**Molecular Epidemiological Studies of Meningioma: The Role of Low Penetrant Genes**

Beatrice Malmer, MD (Umea, Sweden)

2:00 - 3:00 PM

## SPECIAL SESSION B:

**PATIENT ISSUES IN MENINGIOMAS**

Moderator: Liz Holzemer (Highlands Ranch, CO)

**A Patient's Perspective**

Liz Holzemer (Highlands Ranch, CO)

**Medical Issues - Steroids, DVT Prophylaxis**

Jan Drappatz (Boston, MA)

**Seizure Management**

Barbara Dworetzky, MD (Boston, MA)

**Anesthesia and ICU Considerations**

Linda Aglio, MD (Boston, MA)

3:00 - 4:30 PM

## SCIENTIFIC SESSION VI:

**ORAL ABSTRACTS**

Moderators: Marc P. Sindou, MD, DSc (Bron Cedex, France); Phillip V. Theodosopoulos, MD (Cincinnati, OH)

4:30 - 6:00 PM

## HOW-I-DO-IT SESSION III:

**MENINGIOMAS INVADING THE PARANASAL SINUSES**

Moderator: Luis Alencar Borba, MD (Curitiba, Brazil)

**Meningiomas Invading the Paranasal Sinuses**

Luis Alencar Borba, MD (Curitiba, PR Brazil)

**New Techniques for Dural Replacement**

Luis Renato Mello, MD (Blumenau, SC Brazil)

**How to Deal with Meningioma Bony Invasion**

Jose Alberto Landeiro, MD (Rio de Janeiro, Brazil)

**Complex Meningiomas**

Atul Goel, MD (Parel Mumbai, India)

4:30 - 6:00 PM

## HOW-I-DO-IT SESSION IV:

**DURAL AV FISTULAE**

Moderator: Yong-Kwang Tu, MD (Taipei, Taiwan ROC)

**Diagnosis**

Yong-Kwang Tu, MD (Taipei, Taiwan ROC)

**Surgical Treatment**

Arthur L. Day, MD, FACS (Boston, MA)

**Skull Base Approach**

Jacques J. Morcos, MD, FRCS (Miami, FL)

**Endovascular Approaches**

Kai Frerichs (Boston, MA)

4:30 - 6:00 PM

## VIDEO SEMINAR III:

**ENDOSCOPY AND MINIMALLY INVASIVE SURGERY FOR MENINGIOMAS**

Moderator: Fred Gentili, MD (Toronto, Canada)

Speakers: Enrico DeDivitis, MD (Napoli, Italy);

Takanori Fukushima, MD (Raleigh, NC);

Fred Gentili, MD (Toronto, Canada);

Hae-Dong Jho, MD, PhD (Pittsburgh, PA)

4:30 - 6:00 PM

## VIDEO SEMINAR IV:

**CAVERNOUS SINUS MENINGIOMAS**

Moderator: Gail L. Rosseau, MD (Chicago, IL)

Speakers: Marc P. Sindou, MD, DSc (Bron Cedex, France); Gail L. Rosseau, MD

(Chicago, IL); Isao Yamamoto, MD

(Yokohama, Japan)

4:30 - 6:00 PM

## VIDEO SEMINAR V:

**OLFACTORY GROOVE MENINGIOMAS**

Moderator: Francesco Tomasello, MD (Messina, Italy)

Speakers: Benedicto Oscar Colli, MD (Ribeirao Preto, SP, Brazil); Alexander Ciucera, MD (Bucharest, Romania) presented by Konstan Tiriou Fountas, MD, PhD (Terpsithea Lariss, Greece); Francesco Tomasello, MD (Messina, Italy); Andrew Thomas Parsa, MD, PhD (San Francisco, CA)

6:00 - 6:30 PM

**THE INTERNATIONAL MENINGIOMA SOCIETY BUSINESS MEETING**

7:30 - 10:00 PM

**FINAL BANQUET RECEPTION & DINNER: A TASTE OF THE WORLD**

Venetian and Oval Room, The Fairmont Copley Plaza

**Saturday, September 6**

7:00 AM - 3:00 PM

**Registration**

7:30 - 9:00 AM

**Breakfast Seminars**

## BREAKFAST SEMINAR # 301

**MENINGIOMA IMAGING**

Moderator: Philip V. Theodosopoulos, MD (Cincinnati, OH)

**MR, CT, PET**

L. Hsu (Boston, MA)

**MR Spectroscopy**

Mikhail F. Chernov, MD (Tokyo, Japan)

**Diffusion Tensor Imaging and FMRI**

Phillip V. Theodosopoulos, MD (Cincinnati, OH)

**Imaging of Atypical Meningiomas**

Takanori Ohnishi, MD, Prof. (Ehime, Japan)

## BREAKFAST SEMINAR # 302

**PETROCLIVAL MENINGIOMAS**

Moderator: Jacques J. Morcos, MD, FRCS (Miami, FL)

Speakers: Jacques J. Morcos, MD, FRCS (Miami, FL); Frederick G. Barker II, MD, FACS (Boston, MA); Suresh Nair, MBBS, FRACS (Kerala, India); Ali F. Krisht, MD (Little Rock, AR)

## BREAKFAST SEMINAR # 303

**CAVERNOUS SINUS  
MENINGIOMAS**

Moderator: Imad Kanaan, MD (Brooklyn, NY)

Speakers: Imaduddin Kanaan, MD, FACS (Riyadh, Saudi Arabia); Yung Sun Lee; Walter D. Johnson, MD (Loma Linda, CA)

## BREAKFAST SEMINAR # 304

**MULTIPLE AND RADIATION-  
INDUCED MENINGIOMAS**

Moderator: Tuncalp Ozgen, MD, Prof. (Istanbul, Turkey)

**Multiple Meningiomas**

Tuncalp Ozgen, MD, Prof. (Istanbul, Turkey)

**Radiation Induced**

Kaoru Kurisu, MD (Minami-ku, Hiroshima Japan)

**Radiation: Friend or Foe of the  
Neurosurgeon**

Peter C. Warnke, MD (Boston, MA)

## BREAKFAST SEMINAR # 305

**TUBERCULUM SELLAE  
MENINGIOMAS**

Moderator: Ibrahim Sbeih, MD, Prof. (Amman, Jordan)

Speakers: Ibrahim Sbeih, MD, Prof. (Amman, Jordan); Fred Gentili, MD (Toronto, ON Canada); CJ Kim

## 9:15 AM - 12:00 PM

## SCIENTIFIC SESSION VII:

**VENOUS ANATOMY AND VENOUS  
DISORDERS**

Moderator: Basant Kumar Misra, MD (Mumbai, India)

**Nanotechnology for Neurosurgical  
Procedures**

Michael L. J. Apuzzo, MD (Los Angeles, CA)

**Pathophysiology of Venous Anomalies**

Turker Kilic, MD, PhD (Istanbul, Turkey)

**Venous Drainage in Meningiomas**

Giovanni Broggi, MD (Milano, Italy)

**Image-Guided Therapy for Cavernous  
Angiomas**

Basant Kumar Misra, MD (Mumbai, India)

## 10:25 - 11:00 AM

**Coffee Break in the Exhibit Hall****Genetics of Cavernous Angiomas**

Murat Gunel, MD (New Haven, CT)

**Surgery for Brain Stem Cavernomas**

Albino P. Bricolo, MD (Verona, Italy)

**The Importance of Veins in  
Neurosurgery**

Tetsuo Kanno, MD (Toyoake Aichi, Japan)

## 12:00 - 12:30 PM

**CLOSING CEREMONIES**

## 8:00 AM - 5:00 PM

**MENINGIOMA AWARENESS DAY**

## 5:30 - 7:00 PM

**Meningioma Awareness Day Reception  
— Sponsored by the Brain Science  
Foundation**

Marriott Copley Place Hotel

Agenda and faculty subject to change.

Recording or taping any portion of this medical meeting is strictly prohibited.

## Meningioma Awareness Day 2008

Saturday, September 6

John B. Hynes Memorial  
Convention Center



The Brain Science Foundation, in collaboration with the Department of Neurosurgery at Brigham and Women's Hospital, is pleased to announce Meningioma Awareness Day (MAD) 2008, the **only** patient conference to focus exclusively on the latest research advancements in meningioma diagnosis, treatment and therapy as well as health issues and coping strategies associated with this type of brain tumor.

Building on the enthusiasm generated at last year's inaugural day, MAD 2008 will give meningioma patients from across the country the unprecedented opportunity to hear experts featured at the 6<sup>th</sup> Congress address topics that will include the latest surgical techniques for meningioma, as well as new therapy and treatment strategies; psychological symptoms

related to the diagnosis and management of meningioma; maximizing the patient-neurosurgeon relationship; new discoveries in meningioma science; integrative health and the mind/body connection. Additionally, special guests will enrich the all-day event with inspiring stories, coping tips, and caregiver guidelines. A special reception at the Marriott Copley will conclude the day and bring together MAD attendees and the entire roster of conference speakers and attendees.

We encourage you to inform your patients of this important day. For the complete program agenda, please visit the conference web site at <http://www.TheMeningiomaConference2008.org> and click on Meningioma Awareness Day.

## TRANSPORTATION

### American Airlines

Take advantage of a 5% discount on the lowest published airfare when you travel to/from the Meningioma and Cerebral Venous System Conference from August 31 – September 10, 2008. Mention A6498AA as the promotional code when making reservations online at [www.aa.com](http://www.aa.com) or by phone at (800) 433-1790.

### Airport Transportation

Logan International Airport is located two miles outside the city center, with easy public transportation to the airport from downtown. There is a free bus service that you can pick up at all Logan Airport terminals to take to South Station or you can use the MBTA blue line which will take you to and from the airport. Taxis are readily available at Boston's Logan Airport 24 hours a day. The taxi fare from the airport to the city is approximately \$30 USD. Taxis are also easily accessible in downtown Boston.

### Public Transportation MBTA (Massachusetts Bay Transportation Authority)

The MBTA provides the safest, cleanest and most efficient way of getting around Boston. There are four rail lines, an extensive bus line, a commuter rail line and water ferries that connect throughout Boston and surrounding areas. For the closest transportation, look for a black "T" on a white circular street sign.

## INTERNATIONAL TRAVEL INFORMATION

Conference attendees traveling to Boston, Massachusetts from countries requiring visas in addition to a passport should register and make hotel and travel arrangements early. After registering for the conference, you will receive a confirmation notice that can serve as documentation to be submitted with your visa application. Should you require a letter of invitation, please call (847) 378-0529 or e-mail [meetings@aans.org](mailto:meetings@aans.org) to request a personalized letter. Be sure to plan ahead and allow two to three months for visa processing to ensure that you don't miss the opportunity to attend this conference in the United States. For further guidelines, please visit [www.unitedstatesvisas.gov](http://www.unitedstatesvisas.gov). Conference attendees traveling to Boston, Massachusetts from Canada, Mexico

or Bermuda by air, land or sea will be required to present your country's passport.

## ACCOMMODATIONS

### Boston Marriott Copley Place — Headquarters Hotel

110 Huntington Avenue  
Boston, MA 02116  
Phone: (617) 236-5800  
Web site: [www.marriott.com](http://www.marriott.com)  
Room Rate: \$259 Single / \$279 Double

The Boston Marriott Copley Place is centrally located in the Back Bay of Boston. All guest rooms offer the new Revive bed, 300 thread count linens, high-speed Internet, cable TV, laptop safes and web TV. Dining options include three restaurants, cocktail lounge, Starbucks® Coffee and 24-hour room service. This hotel offers numerous amenities such as valet parking, gift shop, car rental desk, health club and tour desk.

### The Fairmont Copley Plaza

138 St. James Avenue  
Boston, MA 02116  
Phone: (617) 267-5300  
Web site: [www.fairmont.com/copleyplaza](http://www.fairmont.com/copleyplaza)  
Room Rate: \$294\* Single / Double

The historic Fairmont Copley Plaza offers many amenities that will ensure a quintessential Boston experience. The guest rooms have been completely refurbished with European influences to reflect the grace of a glorious past updated with contemporary conveniences. This hotel is accredited by AAA and renowned for their Four-Diamond, white glove service, including 24-hour in-room dining, Fairmont Gold concierge floor and much more! Their unrivaled location is just steps from the upscale Copley Place Shopping Gallery, the Prudential Shops and famous Newbury Street, offering fine dining, art galleries, designer boutiques and sidewalk cafés and all of Boston's historic sights.

### Hostelling International—Boston

12 Hemenway Street  
Boston, MA 02115  
Phone: (617) 536-9455  
Web site: [www.bostonhostel.org](http://www.bostonhostel.org)  
Rate: Prices vary from \$35.00 – \$109.99 per person.

A dormitory-style facility with multiple bedded rooms (2 to 6 beds in each) allows the hostel to provide affordable lodging for out-of-town attendees.

There are 205 beds in the facility which includes Internet access, kitchen and laundry facilities. This hostel is in downtown Boston, in the Fenway area, which boasts some of the best museums and nightlife in the city.

\* A portion of the room rate will be utilized to cover the cost of the online registration and housing services.

\*\* All reservations and room assignments are subject to availability.

## ATTIRE

Attire for the duration of the conference is business casual. On Friday, September 5 at the Final Banquet, we encourage business (suit coat and tie for men; dress, skirt or nice slacks for women) or national dress.

## CLIMATE/TIME ZONE

As Summer fades out and Fall is about to roll in, the average high temperature in Boston for the end of August and early September is approximately 75 Degrees/24 Celsius and the average low is 60 Degrees/15 Celsius. Boston, Massachusetts is located in the Eastern Time Zone and daylight saving time will be in effect.

## AMERICANS WITH DISABILITIES ACT

The MCVS wishes to take those steps to ensure that no individual with a disability is excluded, denied services, segregated or otherwise treated differently than other individuals because of the absence of auxiliary aids and services. If you require any of the auxiliary aids or services identified in the Americans with Disabilities Act in order to attend any of the MCVS Conference, please contact the AANS Education & Meeting Services Department at (847) 378-0529.

## GUEST REGISTRATION

The guest registration fee includes a ticket to the Opening Reception on Wednesday and the Final Banquet on Friday, as well as access to the Exhibit Hall and admittance to the Guest Hospitality Suite, which includes breakfast. (No children under 18 years old will be allowed in the Exhibit Hall.) Other optional tours and activities available normally require tickets to be purchased months in advance with no guarantee on availability. Only through the MCVS Conference are you able to guarantee participation to the following combination of sites.

## Wednesday, September 3

### Ducks, Sharks and Penguins

9:00 AM – 1:00 PM **\$78 USD per person**

Journey into Boston like you never have before! The fun begins as soon as you board your "DUCK", an authentic, renovated World War II amphibious landing vehicle. You will receive a souvenir duck whistle so you will not lose your voice quacking through the streets of Boston. Cruise by all the places that make Boston the birthplace of Freedom and a City of Firsts! From the golden-domed State House to Bunker Hill and the TD Banknorth Garden, Boston Common and Copley Square to the Big Dig, Government Center to fashionable Newbury Street, the best of Boston will unfold before your eyes.

### Opening Reception — A Taste of Boston

6:30 – 8:30 PM **Included in Registration**

Don't miss a memorable evening of cocktails and hors d'oeuvres while catching up with colleagues at the Marriott Copley Place. (Additional tickets available for purchase at \$65 USD each).

## Thursday, September 4

### Baseball and Art: Fenway Park and The Isabelle Gardner Museum

9:00 AM – 1:00 PM **\$73 USD per person**

What does art have to do with baseball? In Boston there is an interesting connection. Isabella Steward Gardner, a Boston socialite, opened a magnificent Venetian home as a museum in 1903. She welcomed visitors to her home with a live performance of Bach, Mozart and Schumann. Here you can gaze in wonder at the courtyard full of flowers, and view one of the nation's finest collections of art. Mrs. "Jack", as she was often called, was not only a lover of art, but was also an avid Red Sox fan. You will visit Fenway Park, America's most beloved baseball park. You can visit the park where The Babe pitched, The Kid hit, Yaz dazzled and Manny and Ortiz still thrill young fans today! Soak up the rich history and hear the echoes of the past. This is a tour not to be missed!

### Listen My Children and You Shall Hear of the Midnight Ride of Paul Revere

10:00 AM – 1:30 PM **\$65 USD per person**

Travel back in time and put yourself in Paul Revere's shoes during the Revolutionary Era. On the night of April 18, 1775, silversmith Paul Revere left his small wooden home in Boston's North End and set out on a journey that would make him into a legend. Revere's home is downtown Boston's oldest building and one of the few remaining from an early era in the history of colonial America. The tour continues through the Pierce/Hitchborn House, built in 1711 and one of the earliest remaining brick structures in Boston. Then "meet" Paul Revere inside the Old North Church and learn more about his life and times as actor David Conner will recount Revere's life in pre-revolutionary and revolutionary Boston.

*If a tour minimum is not met, the tour may be cancelled and the money will be refunded. Notifications of the cancellation will be sent.*

## Friday, September 5

### John F. Kennedy Presidential Library and Museum

9:00 AM – 1:30 PM **\$63 USD per person**

Tour the John F. Kennedy Library and Museum, which portrays the life, leadership and legacy of President Kennedy, conveys his enthusiasm for politics and public service and illustrates the nature of the office of the President. Afterward experience Harvard, one of the world's most renowned academic institutions, and walk the same path as John F. Kennedy once traveled. A guide will elaborate on the history, incredible architecture and famous landmarks in the old yard. This beautiful campus will enchant everyone with its charming brick architecture and elegant style. Enjoy lunch at a local Irish pub.

### Historic Brick Facades: The Mansions of Beacon Hill and The State House

2:00 – 5:00 PM **\$90 USD per person**

Take a guided tour of the Beacon Hill houses, elegant city living and hidden gardens. The homes reveal the personal style of each owner and many have been restored to their 18<sup>th</sup> – 19<sup>th</sup> Century roots with furnishings and fabrics indicative of the period. You will have a private, narrated tour of the streets of Beacon Hill, viewing two private homes. Then continue on for a guided tour of the State House.

### Final Banquet – International Night

7:30 – 10:00 PM **Included in Registration**

Enjoy a delightful evening reminiscing over your time spent in Boston and say good-bye to friends and colleagues at the Fairmont Copley Plaza. National dress is strongly encouraged. (Additional tickets available for purchase at \$100 USD each).

## Saturday, September 6

### Liberty Revolution Tour

9:00 AM – 1:00 PM **\$48 USD per person**

Journey to the historic sites of the American Revolution in Lexington and Concord. Begin the adventure at the Lexington Battle Green, where the Lexington militia confronted 800 British Regulars as the sun rose on April 19, 1776. Step into the Buckman Tavern where the Lexington militia gathered the night before the battle. Explore the Minute Man National Historical Park that includes a monument marking the Paul Revere Capture Site where the famous midnight ride of Paul Revere ended abruptly. Tour the Orchard House, the home of Louisa May Alcott and her family, and setting for the beloved American classic *Little Women*. The tour continues with visits to the homes of Henry David Thoreau and Minister William Emerson and his grandson Ralph Waldo Emerson. Shop or have lunch in the charm that is central Concord, if time allows.

### Whale of a Tail, Whale Watching Excursion

10:00 AM – 2:00 PM **\$97 USD per person**

Venture out to sea on a high-speed catamaran, narrated by a professional researcher from the Whale Center of New England for a day of humpback whale watching. These whales are some of the largest mammals on Earth and it is incredible to see these huge creatures leap many feet out of the water. You will find Humpback whales are amazing species to watch.

# Optional Tours and Evening Social Events

# Meeting Registration

6<sup>th</sup> International Congress on Meningiomas and Cerebral Venous System  
September 3 – 6, 2008

John B. Hynes Veterans Memorial Convention Center  
Boston, Massachusetts, United States

Please print or type:

Last Name (Family Name)		First Name		Credentials	
Organization					
Address					
City		State	Zip	Country	
Phone			Fax Number		
E-mail Address					
Do you speak a second language? <input type="checkbox"/> No <input type="checkbox"/> Yes Other Language: _____					

## Meeting Registration Fees

	Registration received on or before 08/04/08	Registration received 08/05/08 or after
Neurosurgeon (101)	<input type="checkbox"/> \$400 USD	<input type="checkbox"/> \$500 USD
Radiation Oncologist, Neuro-Oncologist, Scientist (102)	<input type="checkbox"/> \$400 USD	<input type="checkbox"/> \$500 USD
International Attendee (106)	<input type="checkbox"/> \$400 USD	<input type="checkbox"/> \$500 USD
Resident/Fellow/Medical Student (103)	<input type="checkbox"/> \$225 USD	<input type="checkbox"/> \$275 USD
Nurse (104)	<input type="checkbox"/> \$225 USD	<input type="checkbox"/> \$275 USD
Allied Health Personnel (105)	<input type="checkbox"/> \$225 USD	<input type="checkbox"/> \$275 USD
Spouse (150)	<input type="checkbox"/> \$225 USD	<input type="checkbox"/> \$225 USD
Guest (151)	<input type="checkbox"/> \$225 USD	<input type="checkbox"/> \$225 USD (Quantity) _____
Meningioma Awareness Day (MAD) Attendee (Non-medical attendee only)	<input type="checkbox"/> \$30 USD	<input type="checkbox"/> \$35 USD (Quantity) _____

Spouse/Guest First Name Last Name

Spouse/Guest First Name Last Name

## Social Events and Optional Tours\* (further details found on page 9)

Ducks, Sharks and Penguins Tour	Quantity _____ @ \$78 USD (per person)
Opening Reception**	Quantity _____ @ \$65 USD (per person)
Baseball and Art: Fenway Park and The Isabelle Gardner Museum	Quantity _____ @ \$73 USD (per person)
Listen My Children and You Shall Hear of the Midnight Ride of Paul Revere	Quantity _____ @ \$65 USD (per person)
John F. Kennedy Presidential Library and Museum Historic Brick Facades: The Mansions of Beacon Hill and The State House	Quantity _____ @ \$90 USD (per person)
Final Banquet**	Quantity _____ @ \$100 USD (per person)
Liberty Revolution Tour	Quantity _____ @ \$48 USD (per person)
Whale of a Tail, Whale Watching Excursion	Quantity _____ @ \$97 USD (per person)

### TOTAL

\* If a tour minimum is not met, the tour may be cancelled and the money will be refunded. Notifications of the cancellation will be sent.

\*\* Each medical registrant and guest/spouse registrant receives a ticket with registration.

## Method of Payment

Check  Visa  MasterCard  American Express

Check Number \_\_\_\_\_ Amount Paid \_\_\_\_\_

Credit Card Number \_\_\_\_\_ Expiration Date \_\_\_\_\_

Print name as it appears on credit card

Signature (I agree to pay above total according to card issuer agreement)

Please make checks payable in U.S. dollars, drawn on a U.S. bank, and mail to:

**Meningioma and Cerebral Venous System, c/o Conference Technology Enhancements,  
PO Box 2686, Des Plaines, IL 60018**

Please Note: Do not send this form via Federal Express, UPS, or Airborne. The only overnight service that will deliver to this address is the U.S. Postal Service.

## Ways To Register

Completed registration forms with credit card details can be submitted via online, faxed or mailed to the MCVS Registration & Housing Bureau. The online registration form is the most immediate and secure method of registration.

■ Online:  
[www.TheMeningiomaConference2008.org](http://www.TheMeningiomaConference2008.org)

■ Fax: (800) 952-9812 (U.S.);  
(847) 759-4228 (International)

■ Mail: MCVS Registration & Housing Bureau  
c/o Conference Technology  
Enhancements  
PO Box 2686  
Des Plaines, IL 60018

For wire transfers, please contact the MCVS Registration & Housing Bureau at (800) 713-0791 (U.S.) or (847) 759-4255 (International) or e-mail [aansmcvs@cteusa.com](mailto:aansmcvs@cteusa.com).

## Confirmation

All registrants will receive a confirmation letter by e-mail, fax (if no e-mail is provided) or mail (if no e-mail or fax number is provided) confirming their enrollment within 48 hours of receipt of registration forms. You will receive one confirmation for registration and one for housing.

## Cancellation Policy

Requests for registrant cancellation must be submitted IN WRITING to:  
MCVS Housing & Registration Bureau  
c/o Conference Technology Enhancements  
PO Box 2686  
Des Plaines, IL 60018  
Fax: (800) 952-9812 (U.S.) / (847) 759-4228 (International)  
E-mail: [aansmcvs@cteusa.com](mailto:aansmcvs@cteusa.com)

All refunds will be processed and mailed following the meeting. Refunds will be made in accordance with the following schedule:

- Cancellations received on or before Tuesday, July 1, 2008, will receive a full refund less a \$50 service fee.

- Cancellations received between Wednesday, July 2, 2008 and Tuesday, August 26, 2008 will receive a full refund less a \$100 service fee.

- No refunds will be granted if received on or after Wednesday, August 27, 2008.

## Questions?

If you have questions, contact the MCVS Housing & Registration Bureau at (800) 713-0791 (U.S.) or (847) 759-4255 (International) or e-mail [aansmcvs@cteusa.com](mailto:aansmcvs@cteusa.com).

# Housing Reservation Form

6<sup>th</sup> International Congress on Meningiomas and Cerebral Venous System  
September 3 – 6, 2008  
John B. Hynes Veterans Memorial Convention Center  
Boston, Massachusetts, United States

Please print or type:

Last Name (Family Name)		First Name		Credentials	
Organization					
Address					
City		State	Zip	Country	
Phone			Fax Number		
E-mail Address					

Please check one: I am a  Medical Registrant  Exhibitor

### Hotel Choice

- Boston Marriott Copley Place – Headquarters Hotel (\$259 Single / \$279 Double)
- The Fairmont Copley Plaza (\$294\* Single / Double)
- Hostelling International – Boston (prices vary from \$35.00-\$109.99 per person)

\* A portion of the room rate will be utilized to cover the cost of the online registration and housing services. The hotel room rates are subject to applicable state and local taxes in effect at the time of check-in.

### Room Type Requested

- Single (one bed, one person)
- Double (one bed, two people)
- Double/Double (two beds, two people)
- Other \_\_\_\_\_

Special Needs: \_\_\_\_\_

Arrival Date: \_\_\_\_\_ Departure Date: \_\_\_\_\_

Number of Adults: \_\_\_\_\_ Number of Children: \_\_\_\_\_

Shared Room (list all occupants):

Occupant 1 \_\_\_\_\_

Occupant 2 \_\_\_\_\_

Occupant 3 \_\_\_\_\_

- A deposit equal to one (1) night's stay is required to hold each individual's reservation.
- Upon check-in you will be required to present a credit card for payment. If you use a corporate credit card number, you will need to provide a copy of the front and back of the credit card and an authorization letter from the credit card holder.

### Method of Payment

- Visa
- MasterCard
- American Express

Credit Card Number \_\_\_\_\_ Expiration Date \_\_\_\_\_

Print name as it appears on credit card \_\_\_\_\_

Signature (I agree to pay above total according to card issuer agreement) \_\_\_\_\_

### To Make a Reservation

Completed Housing Reservation Forms with credit card details can be submitted via online, faxed or mailed to the MCVS Housing & Registration Bureau. The online reservation form is the most immediate and secure method of registration.

#### Online:

[www.TheMeningiomaConference2008.org](http://www.TheMeningiomaConference2008.org)

#### Fax:

(800) 952-9812 (U.S.)  
(847) 759-4228 (International)

#### Mail:

MCVS Registration & Housing Bureau  
c/o Conference Technology Enhancements  
PO Box 2686  
Des Plaines, IL 60018

A confirmation will be sent to you via e-mail or fax (if no e-mail address is supplied) or via mail (if no e-mail or fax number is supplied) within 48 hours of receipt of your reservation. You will receive one confirmation for housing and one for registration.

### Reservation Information

Only one room may be requested on each form. If you are sharing a room, send only one form with the names of the persons who are sharing; be sure to include all names and the earliest arrival and latest departure date. Additional reservations will be taken on a space available basis only. Every effort will be made to reserve a room at the rate requested – if a room is not available, the next available rate will be reserved.

### Accommodations

Every effort will be made to accommodate room/bed types, connecting rooms, specific locations, but can not be guaranteed. All requests are subject to availability upon arrival.

Check-in: 4:00 PM / Check-out: 12:00 Noon

### Cancellation Policy

Each deposit is refundable providing each reservation is cancelled with the hotel at least 24 hours prior to day of arrival and a valid cancellation number is provided. Thereafter, the deposit will be applied to the final night's reservation and will be forfeited. Any reservation that has not been cancelled by or for an individual who does not arrive will automatically be billed for one night's room and tax. Revisions to departure dates may be made up to and including point of check-in to avoid payment of penalty.

### Questions?

If you have questions, contact the MCVS Housing & Registration Bureau at (800) 713-0791 (U.S.) or (847) 759-4255 (International) or e-mail [aansmcvs@cteusa.com](mailto:aansmcvs@cteusa.com).



*6<sup>th</sup> International Congress on*  
**Meningiomas and Cerebral  
Venous System**

September 3 – 6, 2008

John B. Hynes Veterans Memorial Convention Center  
Boston, Massachusetts, United States

**Preliminary Program**

[www.TheMeningiomaConference2008.org](http://www.TheMeningiomaConference2008.org)

**6<sup>th</sup> International Congress  
on Meningiomas and  
Cerebral Venous System**

c/o AANS  
5550 Meadowbrook Drive  
Rolling Meadows, IL 60008-3852

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U.S. Postage

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American Association  
of Neurological Surgeons

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**Registration and  
Housing Details Inside**