

BOSTON

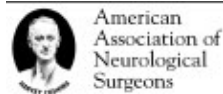
XIV WORLD CONGRESS
of Neurological Surgery


OF THE WORLD FEDERATION OF NEUROSURGICAL SOCIETIES

Registration Information



August 30-September 4, 2009





WELCOME FROM THE PRESIDENT

Dear Friends & Colleagues

It is with great anticipation that I welcome all of you to the XIV World Congress in Boston. The organizing committee is extremely excited about this event, which promises to be unforgettable.

As many of you who have visited Boston know, it is a charming city which is elegant, historically relevant, and very friendly. Most of the attractions are within walking distance of the convention center and the several hotels that will house the majority of all the participants. The Hynes Convention Center is very comfortable and its size is quite manageable, as opposed to some of the other huge convention centers where it is easy to get lost. In addition, it is linked by an indoor mall to three major hotels with three other hotels essentially across the street. All of these facilities are in the heart of Boston in the sophisticated Back Bay area where many of the museums, modern shopping and upscale boutique stores are located.

In addition to the superb and eclectic scientific program which has nearly been completed by Jacques Morcos and Nelson Oyesiku and their committee, the participants will be treated to wonderful social events. There will be an elegant opening reception at the famed Boston Symphony Hall. Later in the week, there will be a very special "clam bake" for all participants at the Kennedy Library, which houses a most interesting collection of memorabilia from President Kennedy and his administration and offers the opportunity to enjoy stunning views of the Bay and the city of Boston. I am sure that many of the participants will also want to visit some of the famous universities and medical institutions in Boston. We are preparing a terrific array of social activities for spouses that are described in this brochure.

As always in our World Congresses, the highlight of the meeting will be the opportunity to enjoy the company of colleagues from around the world who certainly may come from afar and have different accents, but have one thing in common—the love and devotion to our profession.

Please plan to take advantage of all the unique opportunities that the XIV World Congress in Boston will offer you. We sincerely welcome you with open arms!



Roberto C. Heros, MD
*President, XIV World Congress of
Neurological Surgery*



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WEEK AT A GLANCE

Time	Sunday 8.30.09	Monday 8.31.09	Tuesday 9.1.09	Wednesday 9.2.09	Thursday 9.3.09	Friday 9.4.09
0700 to 0835		Breakfast Sessions	Breakfast Sessions	Breakfast Sessions	Breakfast Sessions	Breakfast Sessions
0800 to 1700	Practical Courses					
0845 to 0950		Topic Sessions	Topic Sessions	Topic Sessions	Topic Sessions	Topic Sessions
950 to 1030	B R E A K W I T H E X H I B I T O R S					
1030 to 1230		Plenary Session	Plenary Session	Plenary Session	Plenary Session	Closing Ceremony
1230 to 1400	L U N C H W I T H E X H I B I T O R S					
1245 to 1415			Luncheon Symposia	Luncheon Symposia	Luncheon Symposia	
1400 to 1600		Oral Paper Sessions	Oral Paper Sessions	Oral Paper Sessions	Oral Paper Sessions	
1600 to 1630	B R E A K W I T H E X H I B I T O R S <i>(Exhibits will close at 1630 Monday-Wednesday and 1430 on Thursday)</i>					
1630 to 1730		Interactive and Video Sessions	Interactive and Video Sessions	Interactive and Video Sessions	Interactive and Video Sessions	
Evening	Opening Ceremony & Reception Symphony Hall	President's Dinner Harvard Club <i>Invitation Only</i>		Clam Bake Kennedy Library & Museum	Gala Dinner Marriot Copley Place <i>Ticketed Event</i>	



Officers and Committee Members

The Scientific Program Committee and the AANS would like to thank the Congress of Neurological Surgeons (CNS) for their substantial collaboration in the development of the scientific program.

XIV WORLD CONGRESS OFFICERS

President	Roberto C. Heros, MD
Honorary Vice President	Albert L. Rhoton Jr., MD
Vice President	Arthur L. Day, MD, FACS
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Assistant Treasurer	Warren R. Selman, MD
Chair, Scientific Program	Jacques J. Morcos, MD, FRCS
Co-Chair, Scientific Program	Nelson M. Oyesiku, MD, PhD, FACS

XIV WORLD CONGRESS SCIENTIFIC PROGRAM COMMITTEE

The Scientific Program Committee, under the leadership of Chair Jacques J. Morcos, MD, FRCS (Eng), FRCS (Ed) and Co-Chair Nelson Oyesiku, MD, PhD, FACS, has put together a comprehensive program on contemporary neurosurgical practice including hands-on clinical sessions that will enhance neuroscience learning worldwide. The committee has carefully selected content to provide a broad spectrum of information. The program strives to be educational and highly interactive with a variety of formats.

Jacques J. Morcos, MD, FRCS
Chair

Nelson M. Oyesiku, MD PhD, FACS
Co-Chair

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Martin B. Camins, MD
Eduardo Fernandez, MD
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Bernd Richling, MD
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Charles H. Tator, MD, PhD, MA

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Takeshi Kawase, MD
Andres M. Lozano, MD, PhD
Robert A. Ratcheson, MD
James T. Rutka, MD, PhD
Warren R. Selman, MD

Peter Black, MD, PhD
Concezio Di Rocco, MD
Roberto C. Heros, MD
Douglas S. Kondziolka, MD
A. John Popp, MD
Albert L. Rhoton Jr., MD
Damianos E. Sakas, MD
Franco Servadei, MD

WFNS ADMINISTRATIVE COUNCIL

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President, XIV Congress	Roberto C. Heros, MD

WFNS HONORARY PRESIDENTS

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Noel G. Dan, MD	Sayed El Gindi, MD	F. John Gillingham, MD
Alan Hudson, MD	Shozo Ishii, MD	Shigeaki Kobayashi, MD
Edward R. Laws, MD	Guy Lazorthes, MD	Mauro Loyo-Varela, MD
Jose G. Martin-Rodriguez, MD	Jorge Mendez, MD	John (Sean) F. Mullan, MD
Russel H. Patterson Jr., MD	Fernando Rueda-Franco, MD	Madadeva Sambasivan, MD
Madjid Samii, MD, PhD	Keiji Sano, MD	Lindsay Symon, MD
Jacquez C. de Villiers, MD	Friedrich Loew, MD	Kintomo Takakura, MD
H.A. vanAlphen, MD	H.A.D. Walder, MD	

OTHER WFNS OFFICERS

Editor, Federation and Congress Publications	Martin B. Camins, MD
Manager, Federation Web	Gail Rosseau, MD
Editor, Federation Web	Eduardo Karol, MD
Coordinator Committee Activities	Abdeslam El Khamlichi, MD



Message from the Chair of the Scientific Program Committee

Dear Colleagues:

I welcome each and every one of you from all four corners of the world to what I firmly believe will be one of the most successful scientific gatherings in the history of the WFNS. The Scientific Program Committee has been hard at work over the last three years building the individual pieces that form the giant puzzle of the Scientific Program. I believe that this committee of 24 international colleagues, under my chairmanship and the co-chairmanship of Dr. Nelson Oyesiku, has paid very special attention to the needs of neurosurgeons across the planet and we hope that this attention to detail reflects itself in the quality of the enclosed program.

The guiding principles in the construction of the scientific program were based on inclusiveness, relevance, and innovation. Inclusiveness is easily seen by the 800 invited speakers from 60 countries, not including presenters of oral papers, electronic posters, and video symposia. Relevance is obvious in the wide ranging topics that address neurosurgical questions asked everywhere, from the tundra to the urban jungles, and from the mundane to the esoteric. Whatever the needs and expectations, we believe that there will be something for everyone in the program. And finally, the spirit of innovation, which characterizes the soul of neurosurgery, is well represented in all the sessions that deal with the state of our art and the promise of our science.

We began our journey into building the Scientific Program three years ago by sending out surveys to each of the individual WFNS Member Societies, requesting suggestions regarding topics and speakers. We toured the world, listened to suggestions and gathered names from every corner, established stars and rising talent. Our Committee was subdivided based on 13 separate subspecialty tracks (clearly outlined in the final layout), and the framework of the program began to take shape. Through intense collaborative work, more than 80% of the topics and speakers were identified and published by November 2007 at the time of the Interim Meeting in Nagoya. The third phase of this effort consisted of orchestrating and solidifying all details, and this task was completed in time for the release of this registration brochure.

As can be seen in the details of the program, the week will begin with an unprecedented 12 Practical Courses on Sunday, some full-day, some half-day, covering most specialties. Every subsequent morning for five days, there will be a choice of 20 Breakfast Sessions followed by 10 Main Topic Sessions. From Monday through Thursday there will be a full two hours of unopposed Plenary Session daily featuring three neurosurgical luminaries and one special lecturer from the basic sciences or an allied specialty. Although lunchtime (and coffee breaks) should offer the opportunity to interact with our sponsors and exhibitors, there will be one or two special Luncheon Symposia Monday through Thursday. The afternoon will proceed with 10 simultaneous two hour Oral Paper Sessions grouped by subspecialty, and the day will conclude with five simultaneous Interactive Sessions that promise to stimulate and engage the audience in controversial and complex topics, as well as five simultaneous Video Symposia narrated in person by the presenters. All posters will be electronic in format.

On behalf of the Scientific Program Committee, I am grateful to every single person who shaped or participated in the construction of the scientific program of the XIV World Congress of Neurological Surgery. I welcome to Boston all men and women of wisdom and those seeking it. Let us be proud that our diversity is precisely the source of our unity, and let us not forget the words of the philosopher:

“The wise man belongs to all countries, for the home of a great soul is the whole world.”

Democritus

Jacques J. Morcos, MD, FRCS (Eng), FRCS (Ed)
Chair, Scientific Program Committee

Preliminary Scientific Program

Subspecialty Key - Symbols designate subspecialty covered in the session.

PED Pediatrics	SP Spine	CV Cerebrovascular
SB Skull Base	NE Neuro-Endocrine	RS Radiosurgery
NT Neurotrauma	PN Peripheral Nerve	SF Stereotactic & Functional
NR Neurorehabilitation	NM Neuromodulation	NO Neuro-oncology
OTH Other		

E-Poster Viewing Sessions

All posters will be available electronically during the XIV World Congress of Neurological Surgery. Poster viewing times are as follows:

0950 to 1030 Sunday through Friday

1230 to 1400 Sunday through Thursday

1600 to 1630 Sunday through Wednesday

**ATTENTION NEUROSCIENCE NURSES, NURSE PRACTITIONERS
AND PHYSICIAN ASSISTANTS.**

THE XIV WORLD CONGRESS OFFERS OVER 420 HOURS OF EDUCATIONAL PROGRAMMING
AND TWO DEDICATED PROGRAMS DESIGNED WITH YOU IN MIND. BE SURE TO TAKE
ADVANTAGE OF THIS OPPORTUNITY AND PLAN TO ATTEND. REGISTER SOON!

ATTENTION RESIDENTS AND YOUNG NEUROSURGEONS!
SEE PAGE 32 FOR SPECIAL PROGRAMMING AND FUNDING OPPORTUNITIES.

SUNDAY, AUGUST 30, 2009

Practical Course 0800 - 1200

600

NM

NEUROMODULATION: DEEP BRAIN STIMULATION

Cost: \$450.00

Deep brain stimulation has become the preferred technique for modulation of various basal ganglia nuclei in chronic neurological diseases including Parkinson's disease and other movement disorders but also in refractory pain syndromes. More recently, neuropsychiatric disorders such as depression and obsessive-compulsive disorder have become the focus of attention. The participants of this course will learn about the relevant neuroanatomy, the basic techniques of functional stereotactic neurosurgery and deep brain stimulation, and the indications and surgical outcome of the contemporary spectrum with an outlook on new topics of the field.

Director:

Joachim K. Krauss, MD (Germany)

Faculty:

Jin Woo Chang, MD (South Korea)

Muftah Sam Eljamel, MD, FRCS (United Kingdom)

Andres M. Lozano, MD, PhD (Canada)

Bart Nuttin, MD (Belgium)

Michael Schulder, MD (United States)

Takaomi Taira, MD, PhD (Japan)

Practical Courses 0800 - 1700

601

OTH

VIDEO SYMPOSIUM: MASTERS OF NEUROENDOSCOPY

Cost: \$570.00

This session will feature video presentations from the world experts in minimally invasive (endoscopic) neurosurgery. Participants will learn the latest techniques in endoscopic approaches to the cerebral ventricles, skull base and spine.

Director:

Alan R. Cohen, MD, FACS (United States)

Faculty:

Introduction and Neuroendoscopic Third Ventriculostomy

Alan R. Cohen, MD, FACS (United States)

Neuroendoscopic Management of Suprasellar Arachnoid Cysts

Jacques Caemaert, MD (Belgium)

Neuroendoscopic Management of Colloid Cysts

Philippe Decq, MD (France)

Neuroendoscopic Management of Ventricular Tumors

Michael R. Gaab, MD, PhD (Germany)

Neuroendoscopic Management of Complex Ventricular Tumors

Charles Teo, MD (Australia)

Endoport Surgery for Intraventricular Lesions

Amin Kassam, MD (United States)

Neuroendoscopic Management of Lateral Ventricular Cysts

Dieter Hellwig, MD (Germany)

Neuroendoscopic Aqueductoplasty and Aqueductal Stenting

Kazunari Oka, MD (Japan)

Neuroendoscopic Management of the Trapped Fourth Ventricle

Aaron Mohanty, MD (United States)

Neuroendoscopic Management of Fourth Ventricular Lesions

Enrique Ferrer, MD, PhD (Spain)

Neuroendoscopic Procedures in Infants

Conor L. Mallucci, MBBS, FRCS (United Kingdom)

Image-Guidance for Endoscopic Neurosurgery

Mark M. Souweidane, MD (United States)

Neuroendoscopy and the Management of Hydrocephalus

Ahmed S. Ammar, MD, PhD (Saudi Arabia)

Neuroendoscopic Anomalies of the Cerebral Ventricles

Ahmed Zohdi, MD, PhD (Egypt)

Neuroendoscopic Third Ventriculostomy for Tuberculous Meningitis

Anthony Graham Fieggen, MD (South Africa)

Neuroendoscopic Management of Parenchymal Brain Tumors

Kim Herbert Manwaring, MD (United States)

Neuroendoscopic Training Techniques

Nakamasa Hayashi, MD, PhD (Japan)

Complication Avoidance in Ventricular Endoscopy

James M. Drake, MD (Canada)

Endoscope-Assisted Microneurosurgery Overview

Christian Matula, MD (Austria)

Endoscope-Assisted Microneurosurgery for Tumors

J. Andre Grotenhuis, MD, PhD (Netherlands)

Endoscopic Management of Anterior Cranial Base Tumors

Hae-Dong Jho, MD, PhD (United States)

Endoscope-Assisted Microsurgery for Craniopharyngiomas

Wesley A. King, MD (United States)

Endoscope-Assisted Microneurosurgery of the Posterior Fossa

Luiz Carlos de Alencastro, MD (Brazil)

Endoscope-Assisted Microneurosurgery for Cerebellopontine Angle Tumors

Laligam N. Sekhar, MD, FACS (United States)

Endoscope-Assisted Microneurosurgery for Epidermoid Tumors

Henry W. S. Schroeder, MD, PhD (Germany)

Endoscopic Management of Pituitary Tumors

Carl B. Heilman, MD (United States)

Endoscopic Management of Suprasellar Tumors

Paolo Cappabianca, MD (Italy)

Endoscopic Craniosynostosis Surgery

David F. Jimenez, MD, FACS (United States)

Endoscopic Approaches to the Lumbar Spine

Kevin T. Foley, MD (United States)

Microendoscopic Lumbar Discectomy and Laminectomy

Mick J. Perez-Cruet, MD (United States)

Thoracoscopic Spinal Stabilization

Daniel Rosenthal, MD (Germany)

Thoracoscopic Sympathectomy

Noel I. Perin, MD, FRCS (United States)

Endoscopic Approaches to the Cervical Spine

Richard G. Fessler, MD, PhD
(United States)

Endoscopic Management of the Chiari Malformation

Mark G. Luciano, MD, PhD
(United States)

602 NEUROCRITICAL CARE

Cost: \$570.00

NT

This practical course contains a series of brief, focused lectures on topics that are currently of great interest in neurosurgical emergency care, neurocritical care, and recovery. Special effort was made to identify speakers with demonstrated interest in these areas. Frequent breaks for questions and discussion have been included throughout the program.

Director:

Alex B. Valadka, MD (United States)

Faculty:

Prehospital Care and Resuscitation

John David Laidlaw, FRACS (Australia)

Cerebral Monitoring: ICP, PbtO₂, CBF, and Microdialysis

Andreas W. Unterberg, MD, PhD
(Germany)

Evaluation and Treatment of Coagulopathy and Bleeding

Nachshon Knoller, MD (Israel)

Endocrinologic Effects of Traumatic Brain Injury

Daniel F. Kelly, MD (United States)

Decompressive Craniectomy in TBI

Peter John Hutchinson, MD, FRCS
(United Kingdom)

Jeffrey V. Rosenfeld, MD (Australia)

Hypothermia in the Neurosurgical ICU

Ji-Yao Jiang, MD, PhD
(People's Republic of China)

Hypertonic Saline in Neurocritical Care

Tatsuro Mori, MD, PhD (Japan)

Treatment of Elevated Intracranial Pressure: Synthesis

Geoffrey T. Manley, MD, PhD
(United States)

Blast Injury and Penetrating Brain Injury

Guy Rosenthal, MD (United States)

Pediatric Traumatic Brain Injury

P. David Adelson, MD, FACS
(United States)

Chronic Subdural Hematoma

Rammarayan Ramachandran, MD (India)

Spinal Cord Injury

Michael G. Fehlings, MD, PhD (Canada)

Guidelines for Traumatic Brain Injury

Franco Servadei, MD (Italy)

Pharmacologic Treatment of Coma

Klaus R.H. von Wild, MD (Germany)

Deep Brain Stimulation for Coma

Ali R. Rezaei, MD (United States)

603 3-D ANATOMY AND APPROACHES TO THE BRAIN, VENTRICLES, CRANIAL NERVES AND SKULL BASE

Cost: \$975.00

OTH

This eight hour course will provide three-dimensional microsurgical instruction on the anatomy and approaches to the anterior and posterior cerebrum, temporal lobe, lateral and third ventricles, pineal region, anterior and middle skull base, cavernous sinus, cerebellum, fourth ventricle, cerebellopontine angle, temporal bone and jugular foramen. The course will also examine the anatomic basis of the transsphenoidal, transmaxillary, transoral, far lateral and transcondylar approaches and the endoscopic basis of skull base surgery.

Director:

Albert L. Rhoton, Jr., MD (United States)

Faculty:

Antionio Cesar de Melo Mussi, MD
(Brazil)

Juan Carlos Fernandez-Miranda, MD
(United States)

Kiyotaka Fujii, MD (Japan)

Carolina Martins, MD, PhD (Brazil)

Toshio Matsushima, MD (Japan)

Eduardo R. Seoane, MD (Argentina)

Erdener Timurkaynak, MD (Turkey)

Hung Tzu Wen, MD (Brazil)

604 MICROVASCULAR NEUROSURGERY OF ANEURYSMS: A COMPREHENSIVE REVIEW OF BASIC AND SOPHISTICATED SURGICAL TECHNIQUES

Cost: \$725.00

CV

In this hands-on course, participants will analyze case presentations of patients presenting with intracranial aneurysms and will be introduced to advanced preoperative imaging evaluation to maximize effectiveness of preoperative surgical planning. In addition, participants will be exposed to skull base approaches for anterior and posterior circulation aneurysm surgery in order to optimize exposure for complex aneurysms. We will review and discuss adjunctive intraoperative imaging techniques to optimize obliteration of cerebral aneurysms with preservation of parent and branch vasculature.

Co-directors:

Evandro De Oliveira, MD, PhD (Brazil)

Ali F. Krisht, MD (United States)

Faculty:

Vasospasm - Update on Management
Yong-Kwang Tu, MD (Taiwan ROC)

Mini Fronto Orbito Zygomatic Approach to Anterior Circulation Aneurysms

Robert F. Spetzler, MD (United States)

Pterional Approach and Opening the Sylvian Cistern

Ugur Ture, MD (Turkey)

Unruptured Intracranial Aneurysms - Personal Perspectives on Management

David George Piepgras, MD
(United States)

Microsurgical Treatment of Non-Ruptured Non-Giant Intracranial Aneurysms - Results
Neil A. Martin, MD (United States)

Endovascular Treatment of Complex Aneurysms: Techniques and Results
Jacques Moret, MD (France)

Microsurgery and Embolization of Intracranial Aneurysms: Decision Making
Bernd Richling, MD (Austria)

Microsurgical Treatment of Carotid Artery Non-Giant Aneurysms - Results
Yoko Kato, MD (Japan)

Microsurgical Treatment of Paraclinoid Aneurysms - Results
Helmut Bertalanffy, MD (Switzerland)

Microsurgical Treatment of Anterior Cerebral Artery Complex Aneurysms - Results
Edgar Vera Nathal, MD, DMSc (Mexico)

Microsurgical Treatment of Middle Cerebral Artery Aneurysms
Manuel J. E. Cunha e Sa, MD (Portugal)

Microsurgical Treatment of Giant Carotid Artery Aneurysms
Vinko Dolenc, MD, PhD (Slovenia)

Microsurgical Treatment of Giant Middle Cerebral Artery Aneurysms
Evandro De Oliveira, MD, PhD (Brazil)

Subtemporal Approach to Basilar Bifurcation Aneurysms
Juha Hernesniemi, MD, PhD (Finland)

Extra-Intracranial Arterial Bypass for Anterior Circulation Aneurysms
Jacques J. Morcos, MD, FRCS (United States)

Surgical Approaches to Upper Part of Basilar Artery Aneurysms
Robert A. Solomon, MD (United States)

Transcavernous Approach to Basilar Artery Aneurysms
Ali F. Krisht, MD (United States)

Microsurgical Treatment of Basilar Bifurcation Aneurysms
Michael T. Lawton, MD (United States)

Microsurgical Treatment of Giant Basilar Bifurcation Aneurysms
Robert F. Spetzler, MD (United States)

Surgical Approaches to Basilar Trunk Aneurysms
Ossama Al-Mefty, MD (United States)

Surgical Approaches to Vertebral Artery Aneurysms
Hirotoshi Sano, MD (Japan)

Vascular Reconstruction of Complex Posterior Circulation Aneurysms
Laligan N. Sekhar, MD, FACS (United States)

605 CUTTING EDGE APPROACHES TO ENDOVASCULAR NEUROSURGERY WITH HANDS ON SIMULATION
Cost: \$570.00

This full day course will review cutting edge endovascular techniques for hemorrhagic and ischemic stroke with hands-on simulation. Computer and invitro simulators will allow participants to gain insight into the nuances of endovascular devices and techniques and discuss their strengths and limitations with experts in the field.

Endovascular Approaches to SAH and Hemorrhagic Stroke:

- o Aneurysm coiling
- o Spasm management
- o AVM and dural fistula embolization
- o CC fistulae
- o Spinal fistulae

Endovascular Approaches to Ischemic disease:

- o Acute stroke:
 - Chemical balloons & merci
 - Penumbra
 - Stenting
- o Intracranial atherosclerosis
- o Extracranial atherosclerosis
- o Case discussion

Co-directors:
Bernard R. Bendok, MD (United States)
Cameron G. McDougall, MD (United States)

Faculty:
Alexander A. Andreou, MD (Greece)
Alan S. Boulos, MD (United States)
Ricardo Alexandre Hanel, MD, PhD (United States)
Elad I. Levy, MD (United States)
Stephen P. Lownie, MD (Canada)
Richard J. Parkinson, MD (Australia)
Andrew J. Ringer, MD (United States)
Joseph Salame, MD FRCS(C) (Lebanon)
Adnan H. Siddiqui, MD, PhD (United States)
Waro Taki, MD (Japan)
Erol Veznedaroglu, MD (United States)
John H. Wong, MD (Canada)

606 SKULL BASE SURGERY: A COMPREHENSIVE HANDS-ON CADAVERIC COURSE. EMPHASIS ON COMPARISON TO CONVENTIONAL APPROACHES AND DECREASED INVASIVENESS
Cost: \$975.00

The traditional concept of skull base surgery is “maximizing access in order to maximize resection and minimize neural injury.” There has been recent discussion as to whether maximal approaches are necessary at all. This hands-on course will allow participants to compare and contrast conventional and skull base approaches, understand the nuances of surgical skull base anatomy, and tailor their surgeries accordingly in their practice.

Co-directors:
Takeshi Kawase, MD (Japan)
Mario Ammirati, MD (United States)
Axel Perneczky, MD, PhD (Germany)

Faculty:
Clinoidal Approach Versus Pterional Approach
Tiit I. Mathiesen, MD (Sweden)
Endoscopic Extended Transsphenoidal Approach Versus Microscopic Transsphenoidal Approach
Imad N. Kanaan, MD, FACS (Saudi Arabia)
Amin Kassam, MD (United States)

Epidural Approach to the Parasellar Area Versus Subtemporal Approach
Franco De Monte, MD, FACS (United States)

Orbito-Zygomatic Infratemporal Approach Versus Temporopolar Approach

Jose Alberto Landeiro, MD (Brazil)

Anterior Petrosal Approach Versus Subtemporal Transtentorial Approach

Harry R. van Loveren, MD (United States)

Functional Presigmoid Approach Versus Lateral Suboccipital Approach

Kenji Ohata, MD, DMSc (Japan)

Far Lateral Approach to Jugular Foramen Versus Lateral Suboccipital Approach

Mario Ammirati, MD (United States)

Suboccipital Condylar Approach to Foramen Magnum Versus Suboccipital Approach

Helmut Bertalanffy, MD (Switzerland)

**607 SP
SPINE SURGERY: A COMPREHENSIVE HANDS-ON CADAVERIC COURSE
Cost: \$975.00**

This spine practical course will be divided in a practical part with cadaver dissection to test and learn the operative approaches and operative anatomy with crucial landmarks. The presenters will give a short theoretical introduction before teaching and supervising the practical dissection. In addition there will be oral presentations by masters in the field of new technologies and particular surgical approaches. Interactive discussions in a rather small group will be encouraged.

Director:
Francois Porchet, MD (Switzerland)

Faculty:
Laminoplasty
Phyo Kim, MD, PhD (Japan)

OPLL: Anterior Cervical Approach
Kazutoshi Hida, MD (Japan)

Posterior Stabilization for CV Anomalies
Arnold H. Menezes, MD (United States)

Antero-Lateral Approach to the Vertebral Artery
Michael Bruneau, MD (Belgium)

Cervical Corpectomy and Dynamic Stabilization of Cervical Spine
Premanand S. Ramani, MD (India)

Posterior Stabilization of Cervical Spine in Dislocation
Sushil Vasant Patkar, MD, MS (India)

Posterior Lumbar Interbody Fusion (PLIF) in the Elderly
Motio Shoda, MD (Japan)

Lumbar Arthroplasty
Chun-Kun Park, MD, PhD (South Korea)

Minimal Invasive Transmuscular Approach in Far Lateral Lumbar Disc Herniation
Francois Porchet, MD (Switzerland)

Robotic Spinal Surgery
Devanand A. Dominique, MD (United States)

Percutaneous Pedical Screws and Rods Stabilization of Lumbar Spine
Deepak Awasthi, MD, FACS (United States)

XLIF for Degenerative Scoliosis and the Proof of Indirect Decompression
Luiz Henrique de Mattos Pimenta, MD, PhD (Brazil)

**609 PN
PERIPHERAL NERVE SURGERY: A COMPREHENSIVE HANDS-ON CADAVERIC COURSE
Cost: \$975.00**

Both the morning and afternoon sessions, dedicated to the peripheral nerve surgery of the superior and inferior extremities, were designed to be very practical and complete. Each session will begin with a panoramic anatomy lecture followed by short lectures about the surgical anatomy at the level of the local plexus and single nerves. The key points for each nerve surgery will be incisively synthesized. Each session will have a three hour time dedicated to macro and micro dissection on cadaveric specimens. Techniques for neurolysis and nerve repair will be taught.

Director:
Eduardo Fernandez, MD (Italy)

Honorary Moderator:
David G. Kline, MD (United States)

Faculty:
Anatomy of Brachial Plexus and Nerves of the Upper Extremity
Pierre Rabischong, MD (France)

Surgical Anatomy of the Median Nerve
B. Indira Devi, MD (India)

Surgical Anatomy of the Ulnar Nerve
Richard J. Moulton, MD (Canada)

Surgical Anatomy of the Radial Nerve
Lukas Rasulic, MD, PhD (Serbia)

Surgical Anatomy of the Musculocutaneous Nerve
Mariano Pablo Socolovsky, MD (Argentina)

Surgical Anatomy of the Axillary Nerve
Mario G. Siqueira, MD (Brazil)

Surgical Anatomy of the Supraclavicular Approach to the Brachial Plexus
Robert L. Tiel, MD (United States)

Surgical Anatomy of the Infraclavicular Approach to the Brachial Plexus
Gregor Antoniadis, MD (Germany)

Anatomy of the Lumbosacral Plexus and Nerves of the Lower Extremity
Pierre Rabischong, MD (France)

Surgical Anatomy of the Peroneal Nerve
Alberto Alexandre, MD (Italy)

Surgical Anatomy of the Tibial Nerve
Shimon Rochkind, MD (Israel)

Surgical Anatomy of the Sciatic Nerve from the Buttock to the Popliteal Fossa
Rajiv Midha, MD, MS, FRCS (Canada)

Surgical Anatomy of the Femoral Nerve
Alberto Isla, MD (Spain)

Surgical Anatomy of the Genitofemoral, Ilioinguinal and Lateral Femoral Cutaneous Nerves
Robert J. Spinner, MD, FACS (United States)

Surgical Anatomy of the Lumbosacral Plexus
Roberto S. Martins, MD (Brazil)

611

PEDIATRIC NEUROSURGERY: AN OVERVIEW WITH SUBSPECIALTY APPLICATIONS

Cost: \$570.00

The World Federation of Neurological Surgeons is pleased to offer a special course providing an update on current thinking and surgical technique for a wide variety of pediatric neurosurgical diseases. The speakers' panel is composed of the leading authorities from around the world who have committed their time to making the course a tremendous success. For those neurosurgeons treating congenital disorders of the nervous system and those who primarily practice pediatric neurosurgery, this course is one not to be missed.

Director:

*Frederick A. Boop, MD, FACS
(United States)*

Faculty:

The Legacy of Boston Children's Hospital

R. Michael Scott, MD (United States)

Surgical Approaches to Epilepsy in Children with Tuberous Sclerosis

Wirginia Maixner, MD (Australia)

Acute MRI Imaging and Prognosis in Children with Severe Head Injury

*Raimund Firsching, MD, PhD
(Germany)*

Approaches to Abnormalities of the Cranio-Cervical Junction

Arnold H. Menezes, MD (United States)

Diagnosis and Management of Spinal Lipomas

Hajime Arai, MD (Japan)

Prognosis and Treatment of Low Grade Gliomas in Children

Michel Zerab, MD (France)

Endoscopic Craniofacial Surgery

*David F. Jimenez, MD, FACS
(United States)*

Skull Base/Endoscopic Assisted Approaches in Children

Charles Teo, MD (Australia)

PED

Genetic Syndromes and Pediatric Brain Tumors

Michael D. Taylor, MD, PhD (Canada)

Pineal Region Tumors

Tai-Tong Wong, MD (Taiwan ROC)

Controversies in Craniopharyngioma Management

Graciela N. Zuccaro, MD (Argentina)

Ethical and Medico-Legal Decision Making in Pediatric Neurosurgery

Wan Tew Seow, MD (Singapore)

Prognostic Factors in Children with Hydrocephalus

A.M. Messing-Juenger, MD (Germany)

Reducing Shunt Infections to Zero

Takayuki Inagaki, MD (Japan)

Management of the Child with a Shunt and Headaches

*Harold Louis ReKate, MD
(United States)*

Syringomyelia: Diagnosis and Management

Spyridon Sgouros, MD, FRCS (Greece)

Current Concepts in Spasticity Management

*Anthony Graham Fieggen, MD
(South Africa)*

Arachnoid Cysts: Classification and Management

Gianpiero Tamburrini, MD (Italy)

Management of Optic Pathway/ Hypothalamic Tumors in Children

M. Memet Ozek, MD (Turkey)

Supratentorial Tumors and Epilepsy

*William Harkness, MD
(United Kingdom)*

Vascular Malformations in Childhood

Chandrashekhar Deopujari, MD (India)

Moya Moya Disease

Seung-Ki Kim, MD (South Korea)

Practical Course 1230 - 1730

Buses will depart the Hynes Convention Center at noon to transport attendees to the Ether Dome.

610

MASTERS OF NEUROSURGERY AT THE ETHER DOME

Cost: \$450.00

This half-day seminar will be held at the historical "Ether Dome" at the Massachusetts General Hospital. It will consist of lectures, frequently accompanied by videos, by ten of the foremost "Master Neurosurgeons" from around the world. Each of the experts, selected for their international reputation as an authority in their field, will cover a topic. The topics selected for presentation are included below.

Director:

Roberto C. Heros, MD (United States)

Faculty:

Welcome and Historical Introduction
Robert L. Martuza, MD (United States)

Intramedullary Spinal Cord and Brainstem Tumors

Albino P. Bricolo, MD (Italy)

Treatment of Craniopharyngiomas

Maurice Choux, MD (France)

Surgery of Sellar and Suprasellar Tumors

*Rudolph Fahlbusch, MD, PhD
(Germany)*

Surgery of Cerebral AVMs

Nobuo Hashimoto, MD (Japan)

Endovascular Treatment of Cerebral Aneurysms

Pedro Lylyk, MD (Argentina)

Surgical Approach to Skull Base Tumors

Basant Kumar Misra, MD (India)

Surgery of Cerebellopontine Angle Tumors

Madjid Samii, MD, PhD (Germany)

Surgical Treatment of Meningiomas Involving the Venous Sinuses

Marc P. Sindou, MD, DSc (France)

New Developments in Spine Surgery

*Volker K. H. Sonntag, MD
(United States)*

Surgical Treatment of Complex Cerebral Aneurysms

Robert F. Spetzler, MD (United States)

OTH

Practical Course 1300 - 1700

608
**NEUROMODULATION: SPINAL
CORD STIMULATION**
Cost: \$450.00

NM

The target audience is neurosurgeons working in multidisciplinary pain clinics. The course will provide an update on the mechanisms of action and evidence-based medicine regarding the efficacy of spinal cord stimulation in the treatment of chronic pain and allied disorders. Upon completion, participants should be able to define the optimal indications and criteria for patient selection, describe the technical and practical aspects, and learn complication avoidance.

Director:
Yves R. Lazorthes, MD (France)

Faculty:
Mechanisms of Action
Bengt Linderth, MD (Sweden)

**Criteria for Selection in Chronic
Neuropathic Pain**
Yves R. Lazorthes, MD (France)

Other Indications
Giovanni Broggi, MD (Italy)

**Implantation Techniques:
Percutaneous Versus Open Surgery**
Giovanni Broggi, MD (Italy)

**Implantation Techniques: Electrode
Designs, Neurostimulation Devices
and Related Technologies**
Giovanni Broggi, MD (Italy)

**Results: The Clinical Studies - Evidence
Based Medicine: SCS Versus Pre-
Operation for Failed Back Surgery**
Richard B. North, MD (United States)

**Results: The Clinical Studies -
Evidence Based Medicine: Process
Study on SCS Versus CMM**
Richard B. North, MD (United States)

Drug Enhanced Spinal Stimulation
Bengt Linderth, MD (Sweden)

Role of SCS in Low Back Pain?
Giovanni Broggi, MD (Italy)

**Conclusions: Factors Affecting SCS
Outcome**
Yves R. Lazorthes, MD (France)

Opening Ceremonies 1830 - 2100

MONDAY, AUGUST 31, 2009

Breakfast Sessions 0700 - 0835

Cost: \$75.00 PER SESSION

101
**LOW GRADE GLIOMAS: STATE-OF-
THE-ART TREATMENT**

NO

Moderator:
Joseph M. Piepmeyer, MD (United States)

Panelists:
Mark Bernstein, MD, FRCS(C) (Canada)
Subhash R. Dharker, MD (India)
Miroslav Galanda, MD (Slovakia)
Keisuke Ueki, MD (Japan)
Vassilios G. Varsos, MD (Greece)

102
GERM CELL TUMORS

NO

Moderator:
*Richard G. Ellenbogen, MD, FACS
(United States)*

Panelists:
*Jeffrey P. Blount, MD, FACS
(United States)*
*Jeffrey N. Bruce, MD, FACS
(United States)*
*Richard D. Hayward, MD
(United Kingdom)*
Yutaka Sawamura, MD, PhD (Japan)
Jun Yoshida, MD, PhD (Japan)

103
**BRAIN MAPPING AS AN AID TO
TUMOR SURGERY**

NO

Moderator:
George A. Ojemann, MD (United States)

Panelists:
*Mitchel S. Berger, MD, FACS
(United States)*
Hugues Duffau, MD (France)
*Allan H. Friedman, MD, FACS
(United States)*
Takamasa Kayama, MD (Japan)
Jorg-Christian Tonn, MD (Germany)

104
**CHIARI TYPE I MALFORMATION IN
CHILDREN**

PED

Moderator:
W. Jerry Oakes, MD (United States)

Panelists:
Avi Cohen, MD (Israel)
Virginia Maixner, MD (Australia)
Carlo Mazza, MD (Italy)
*Nathan R. Seldon, MD, PhD
(United States)*
Paul Steinbok, MD (Canada)

105
**ADVANCES IN BRACHIAL PLEXUS
SURGERY**

PN

Moderator:
David G. Kline, MD (United States)

Panelists:
Alberto Isla, MD (Spain)
Martijn J. A. Malessy, MD (Netherlands)
Miroslav Samardzic, MD (Serbia)
*Robert J. Spinner, MD, FACS
(United States)*
Shokei Yamada, MD (United States)

106
SKULL BASE RADIOSURGERY

RS

Moderator:
*Douglas S. Kondziolka, MD
(United States)*

Panelists:
John R. Adler Jr., MD (United States)
Klaus Kitz, MD (Austria)
Jean Regis, MD (France)
Jason P. Sheehan, MD (United States)
Chung Ping Yu, MD (Hong Kong)

107
**NEUROMODULATION IN FAILED
BACK SYNDROME**

NM

Moderator:
Johan Vangeneugden, MD (Belgium)

Panelists:
Tjemme Beems, MD (Netherlands)
Krishna Kumar, MD, FRCS(C) (Canada)
*Andre Guelman Machado, MD, PhD
(United States)*
*Nikolai G. Rainov, MD, DSc
(United Kingdom)*
*Christopher J. Winfree, MD
(United States)*

108 **CAVERNOUS SINUS MENINGIOMAS:
RECENT SURGICAL CONCEPTS** **SB**

Moderator:

Vinko Dolenc, MD, PhD (Slovenia)

Panelists:

Abbass Amirjamshidi, MD (Iran)
Khaled M. Aziz, MD, PhD
(United States)
Kyu-Sung Lee, MD (South Korea)
Necmettin M Pamir, MD (Turkey)
Abolghassem Sepehrnia, MD (Germany)

109 **SURGICAL RISKS AND
COMPLICATIONS IN SKULL BASE
SURGERY** **SB**

Moderator:

Ricardo Ramina, MD (Brazil)

Panelists:

Kazuhide Adachi, MD (Japan)
Carl Hardwidge (United Kingdom)
Joung H. Lee, MD (United States)
Anil Nanda, MD, FACS (United States)
Volker Seifert, MD, PhD (Germany)

110 **REVASCUARIZATION FOR COMPLEX
SKULL BASE ANEURYSMS AND
TUMORS** **SB**

Moderator:

Laligam N. Sekhar, MD, FACS
(United States)

Panelists:

Fady T. Charbel, MD (United States)
Toshihiko Miyamoto, MD (Japan)
Jacques J. Morcos, MD, FRCS
(United States)
Jorge Marcelo Mura Castro, MD (Chile)
Yuanli Zhao, MD (People's Rep
of China)

111 **THE NEUROSURGERY OF PAIN** **SF**

Moderator:

Laurence Watkins, FRCS (England)

Panelists:

Benaissa Abdennebi, MD (Algeria)
Tipu Z. Aziz, MD (United Kingdom)
Jaimie M. Henderson, MD
(United States)

Robert M. Levy, MD, PhD
(United States)
Bengt Linderöth, MD (Sweden)

112 **CHALLENGES IN NEUROSURGERY:
SOCIOECONOMIC, LEGAL AND
WAR** **OTH**

Moderator:

James R. Bean, MD (United States)

Panelists:

Upendra P. Devkota, MD, FRCS (Nepal)
Georges F. Haddad, MD (Lebanon)
Alan R. Hudson, MD (Canada)
Egidijus Marcinkevicius, MD (Lithuania)
Leon E. Moores, MD (United States)

113 **METASTATIC SPINE CANCER** **SP**

Moderator:

Richard Assaker, MD (France)

Panelists:

Lilyana Angelov, MD, FRCS(C)
(United States)
Mohammed Taher Joharji, MD
(Saudi Arabia)
Paolo Massaro Marchant, MD (Chile)
Volker K. H. Sonntag, MD
(United States)
Mehmet Zileli, MD (Turkey)

114 **ARTIFICIAL CERVICAL DISC** **SP**

Moderator:

Jan Goffin, MD, PhD (Belgium)

Panelists:

Jose Manuel Canizal Garcia, MD (Spain)
Luiz Henrique de Mattos Pimenta, MD,
PhD (Brazil)
Regis W. Haid, Jr., MD (United States)
Matthew McDonald, MD (Australia)
Motio Shoda, MD (Japan)

115 **CERVICAL SPONDYLOTIC
MYELOPATHY** **SP**

Moderator:

John W. German, MD (United States)

Panelists:

Selim Pedro Concha Gutierrez, MD
(Chile)

Mohamed Hafez, MD (Egypt)
Jorge Flores Salinas, MD (Chile)
Richard L. Saunders, MD (United States)
Petr Suchomel, MD (Czech Republic)

116 **LUMBAR FUSION: TECHNIQUES** **SP**

Moderator:

Jung-Keun Suh, MD, PhD (South Korea)

Panelists:

Maurizio Fornari, MD (Italy)
Allan D. Levi, MD, PhD (United States)
Adrian M. Nowitzke, MBBS, FRACS
(Australia)
Daniel Rosenthal, MD (Germany)
Kai Michael Scheufler, MD (Germany)

117 **MANAGEMENT OF SEVERE
TRAUMATIC BRAIN INJURY IN
AUSTERE ENVIRONMENTS (NT)** **NT**

Moderator:

Andres Mariano Rubiano, MD
(Colombia)

Panelists:

Zbigniew Czernicki, MD (Poland)
Ji-Yao Jiang, MD PhD
(People's Republic of China)
Nachshon Knoller, MD (Israel)
M. Tayo Shokunbi, MD (Nigeria)
Keneshbek B. Yrysov, MD (Kyrgyzstan)

118 **TREATMENT OF EXTRACRANIAL
OCCLUSIVE DISEASE IN 2009** **CV**

Moderator:

John A. Wilson, MD, FACS
(United States)

Panelists:

Sepideh Amin-Hanjani, MD
(United States)
Atos Alves De Sousa, MD (Brazil)
Robert E. Harbaugh, MD, FACS
(United States)
Anil P. Karapurkar, MD (India)
Jacques Moret, MD (France)

119
**DURAL AVF: SURGICAL,
ENDOVASCULAR, RADIOSURGICAL
TREATMENT**



Moderator:

Makoto Negoro, MD (Japan)

Panelists:

Daniel Louis Barrow, MD (United States)

Massimo Collice, MD (Italy)

*Alfredo Pedroza Campo, MD
(Columbia)*

Luc Picard, MD (France)

*Jan M. C. Van Dijk, MD, PhD
(Netherlands)*

120
**UNRUPTURED ANEURYSMS:
TREATMENT INDICATIONS AND
METHODS**



Moderator:

Joshua B. Bederson, MD (United States)

Panelists:

Akio Morita, MD, PhD (Japan)

Ivan Ng, MD (Singapore)

*David George Piepgras, MD
(United States)*

Eugenio Pozzati, MD (Italy)

Bernd Richling, MD (Austria)

Topic Session **0845 - 0950**

**1010 INSULAR TUMORS: FROM
ANATOMY TO GLIOMAS**



Moderator:

M. Gazi Yasargil, MD (United States)

Speakers:

Hugues Duffau, MD (France)

Frederick F. Lang Jr., MD (United States)

Ugur Ture, MD (Turkey)

**1011 ENDOSCOPIC
PITUITARY SURGERY**



Moderator:

Daniel F. Kelly, MD (United States)

Speakers:

Paolo Cappabianca, MD (Italy)

*Guillermo Fernandez Molina, MD
(Argentina)*

Fred Gentili, MD (Canada)

**1012 PEDIATRIC POSTERIOR FOSSA
TUMORS**



Moderator:

Tae Sung Park, MD (United States)

Speakers:

*Essam Abdulaziz Al Shail, MD
(Saudi Arabia)*

Mustafa Kemal Baykaner, MD (Turkey)

*Michael R. Carter, MD
(United Kingdom)*

**1013 ASYMPTOMATIC
MENINGIOMAS: WHEN DO WE
OPERATE?**



Moderator:

Gail L. Rosseau, MD (United States)

Speakers:

Rajesh K. Bindal, MD (United States)

Tony Van Havenbergh, MD (Belgium)

Shigetoshi Yano, MD, PhD (Japan)

**1014 SURGICAL TREATMENT OF
MOVEMENT DISORDERS**



Moderator:

Jorge Guridi, MD (Spain)

Speakers:

Philippe Coubes, MD, PhD (France)

Kelly Douglas Foote, MD (United States)

*H. Maximilian Maximilian Mehdorn,
MD (Germany)*

**1015 MANAGEMENT OF THE
INCOMPLETELY CLIPPED/COILED
INTRACRANIAL ANEURYSM**



Moderator:

Abdessamad El Azhari, MD (Morocco)

Speakers:

Carlos A. David, MD (United States)

Basant Kumar Misra, MD (India)

Christian Raftopoulos, MD (Belgium)

**1016 COMBINED THERAPY FOR
INTRACRANIAL AVMS: SURGERY,
ENDOVASCULAR TREATMENT AND
RADIOSURGERY**



Moderator:

Michael K. Morgan, MD (Australia)

Speakers:

Nobuo Hashimoto, MD (Japan)

*Cameron G. McDougall, MD
(United States)*

*Jizong Zhao, MD (People's Rep
of China)*



**1017 MINIMALLY INVASIVE LUMBAR
SURGERY: SHOW ME THE DATA**

Moderator:

Richard B. Rodgers, MD (United States)

Speakers:

*Richard G. Fessler, MD, PhD
(United States)*

Kevin T. Foley, MD (United States)

Michael Y. Wang, MD (United States)

1018 ECONOMICS OF SPINE SURGERY

Moderator:

Marcos Masini, MD (Brazil)

Speakers:

*George J. Dohrmann, MD, PhD
(United States)*

Iain H. Kalfas, MD (United States)

Krishnamurthy Sridhar, MD (India)

**1019 NEW NEUROMONITORING
METHODS IN TRAUMATIC BRAIN
INJURY: PTIO2, MICRODIALYSIS,
ECOG, EEG, CBF**



Moderator:

*Geoffrey T. Manley, MD, PhD
(United States)*

Speakers:

Jeffrey V. Rosenfeld, MD (Australia)

Juan Sahuquillo, MD, PhD (Spain)

*Christos M. Talias, FRCS, PhD
(United Kingdom)*

**1030 - 1240
PLENARY SESSION I**

Presiding Officer:

Roberto C. Heros, MD (United States)

Moderator:

*Jacques J. Morcos, MD, FRCS
(United States)*

Speakers:

**Pediatric Neurosurgery: A World of
Change**

James T. Rutka, MD, PhD (Canada)

**Management of Cancer Pain: The
Role of the Neurosurgeon**
Yucel Kanpolat, MD (Turkey)

Management of Brain AVMs: Judgement, Anatomy, Techniques and Results
Evandro De Oliveira, MD, PhD
 (Brazil)

Voodoo Death Revisited: The Modern Lessons of Neurocardiology
Martin Allen Samuels, MD
 (United States)

Special Presentation
To Be Announced 1300-1415

Oral Paper Sessions 1400 - 1600

Ten concurrent sessions will take place with papers being presented by topic.

Interactive Sessions 1630 - 1730

801 CERVICAL TOTAL DISC REPLACEMENT ROUND TABLE: ROLE, LIMITATIONS, FUTURE SP

Moderator:
Premanand S. Ramani, MD (India)

Panelists:
For:
Chun-Kun Park, MD, PhD
 (South Korea)
Luiz Henrique de Mattos Pimenta, MD, PhD
 (Brazil)
William Sears, MD
 (Australia)

Against:
Michelle J. Clarke, MD
 (United States)
Miguel Giudicissi-Filho, MD
 (Brazil)
Motio Shoda, MD
 (Japan)

802 THE ROLE OF MICROELECTRODE RECORDING IN DEEP BRAIN STIMULATION/LESIONING: A DEBATE SF

Moderator:
Bomin Sun, MD
 (People's Republic of China)

Debaters:
For:
Emad N. Eskandar, MD
 (United States)

Against:
Marwan I. Hariz, MD
 (United Kingdom)

803 ACOUSTIC NEUROMAS: WATCHING VS. MICROSURGERY VS. RADIOSURGERY RS

Moderator:
Frederick G. Barker, II, MD, FACS
 (United States)

Panelists:
Armando Basso, MD
 (Argentina)
Christer Lindquist, MD, PhD
 (United Kingdom)
Ladislau Steiner, MD, PhD
 (United States)
Christian Strauss, MD
 (Germany)
Yuhei Yoshimoto, MD
 (Japan)

804 OPTIMAL MANAGEMENT OF THE SINGLE BRAIN METASTASIS: SURGICAL EXCISION VS. RADIOSURGERY. A DEBATE. NO

Moderator:
Gabriele Schackert, MD
 (Germany)

Debaters:
Radiosurgery: *Jorg-Christian Tonn, MD*
 (Germany)
Excision: *Robert J. Weil, MD*
 (United States)

805 HIGH GRADE CEREBRAL AVMS ROUND TABLE: CONSERVATIVE VS. MULTIMODALITY TREATMENT CV

Moderator:
Nobuo Hashimoto, MD
 (Japan)

Panelists:
Conservative:
Gerard Mohr, MD, FRCS(C)
 (Canada)
Dae Hee Han, MD, PhD
 (South Korea)
Roberto C. Heros, MD
 (United States)

Multimodality:
Evandro De Oliveira, MD, PhD
 (Brazil)
Michael K. Morgan, MD
 (Australia)
Gary K. Steinberg, MD, PhD
 (United States)

Interventional Neuroradiologist's Perspective:
Jacques Moret, MD
 (France)

Video Sessions 1630 - 1730

Five concurrent video sessions will cover the entire technical spectrum of

Operative Neurosurgery in traditional eight minute video format. Topics and presenters to be determined.

TUESDAY, SEPTEMBER 1, 2009

Breakfast Sessions 0700 - 0835

Cost: \$75.00 PER SESSION

201 HIGH GRADE GLIOMAS: MANAGEMENT OPTIONS NO

Moderator:
Ian F. Parney, MD, PhD
 (Canada)

Speakers:
Yong-Gu Chung, MD, PhD
 (South Korea)
Olivier De Witte, MD, PhD
 (Belgium)
Michael W. McDermott, MD
 (United States)
David P. Rojas Pinto, MD, FACS
 (Chile)
Soichiro Shibui, MD
 (Japan)

202 BRAIN METASTASIS: THE FULL SPECTRUM NO

Moderator:
Kintomo Takakura, MD, PhD
 (Japan)

Speakers:
Reynaldo Andre Brandt, MD
 (Brazil)
Ricardo Diez Valle, MD
 (Spain)
Marc Levivier, MD, PhD
 (Switzerland)
Wai Hoe Ng, MD
 (Singapore)
Claudio G. Yampolsky, MD
 (Argentina)

203 CRANIOPHARYNGIOMAS IN ADULTS: CONTROVERSIES IN MANAGEMENT NO

Moderator:
Albino P. Bricolo, MD
 (Italy)

Speakers:
Antonio Guillermo Carrizo, MD, PhD
 (Argentina)
Alexandru Vladimir Ciurea, MD
 (Romania)
Amro Ahmed Mancy, MD
 (Egypt)
Juraj Steno, MD, PhD
 (Slovakia)
Hiroshi Takahashi, MD, DMSc
 (Japan)

204
**PITUITARY SURGERY: TECHNIQUES
AND COMPLICATIONS**

NE

Moderator:

Michael Buchfelder, MD (Germany)

Speakers:

Sun Ho Kim, MD (South Korea)

Nelson M. Oyesiku, MD, PhD, FACS
(United States)

Kalmon D. Post, MD (United States)

Rene Regatschnig, MD (Austria)

Akira Teramoto, MD (Japan)

205
**ADVANCES IN PEDIATRIC
CRANIOSYNOSTOSIS SURGERY**

PED

Moderator:

Helio Rubens Machado, MD (Brazil)

Speakers:

David F. Jimenez, MD, FACS
(United States)

David W. Pincus, MD, PhD
(United States)

Gianpiero Tamburrini, MD (Italy)

Michael Vassilyadi, MD (Canada)

Arturo Zuleta Ferreira, MD (Chile)

206
**EPILEPSY IN CHILDREN: SURGICAL
MANAGEMENT**

PED

Moderator:

James T. Rutka, MD, PhD (Canada)

Speakers:

Mony Benifla, MD (Israel)

Sanjiv Bhatia, MD, FACS
(United States)

Olivier Delalande, MD (France)

William Harkness, MD
(United Kingdom)

Tai-Tong Wong, MD (Taiwan ROC)

207
**NEW PERSPECTIVES IN
PERIPHERAL NERVE TRAUMA**

PN

Moderator:

Eric L. Zager, MD (United States)

Speakers:

Allan D. Levi, MD, PhD (United States)

Rajiv Midha, MD, MS, FRCS (Canada)

Shimon Rochkind, MD (Israel)

Zoran Roganovic, MD, PhD (Serbia)

Mariano Pablo Socolovsky, MD
(Argentina)

208
**DIFFICULT SKULL BASE
MENINGIOMAS: PROSPECTIVE
COMBINED TREATMENT OF SURGERY
AND RADIOSURGERY**

SB

Moderator:

Christer Lindquist, MD, PhD
(United Kingdom)

Speakers:

William T. Couldwell, MD, PhD
(United States)

Roman Liscak, MD (Germany)

Tiit I. Mathiesen, MD (Sweden)

Basant Kumar Misra, MD (India)

Madjid Samii, MD, PhD (Germany)

209
**JUGULAR FORAMEN TUMORS:
HOW TO PRESERVE THE LOWER
CRANIAL NERVES**

SB

Moderator:

Takanori Fukushima, MD
(United States)

Speakers:

Luis Alencar Borba, MD (Brazil)

Georges F. Haddad, MD (Lebanon)

Yoichi Nonaka, MD (United States)

Jorge D. Oviedo, MD (Argentina)

Tomio Sasaki, MD (Japan)

210
**IMAGE GUIDED SKULL BASE
SURGERY**

SB

Moderator:

Mitesh V. Shah, MD (United States)

Speakers:

Peter M. Black, MD, PhD
(United States)

Tomokatsu Hori, MD (Japan)

Amami Kato, MD (Japan)

Thomas C. Origiano, MD, PhD
(United States)

Ravi Ramamurthi, MD (India)

211
**SURGICAL TREATMENT OF
PARKINSON'S DISEASE**

SF

Moderator:

Jorge Guridi, MD (Spain)

Speakers:

Roy A. E. Bakay, MD (United States)

Marwan I. Hariz, MD (United Kingdom)

Pierre Rabischong, MD (France)

Volker Sturm, MD (Germany)
Francisco Velasco-Campos, MD, PhD
(Mexico)

212
**COMPLICATIONS IN NEUROSURGERY:
MANAGEMENT, AVOIDANCE AND
PHILOSOPHICAL ASPECTS**

OTH

Moderator:

Roberto C. Heros, MD (United States)

Speakers:

Miguel Angel Arraez Sanchez, MD (Spain)

Alessandro Ducati, MD (Italy)

Michael K. Morgan, MD (Australia)

Jeremy Rowe, MD (United Kingdom)

Raymond Sawaya, MD (United States)

213
**CERVICAL SPONDYLOTIC
MYELOPATHY: VENTRAL, DORSAL
OR COMBINED APPROACH**

SP

Moderator:

Darryl J. Dirisio, MD (United States)

Speakers:

Rudolf Beisse, MD (Germany)

Rene Corvalan Latapia, MD (Chile)

Howard J. Silberstein, MD
(United States)

Teodor Tissen, MD (Russia)

Gabriel Vargas, MD (Colombia)

214
ARTIFICIAL LUMBAR DISC

SP

Moderator:

Fred H. Geisler, MD, PhD (United States)

Speakers:

Adrian Thomas Hickman Casey, MD,
FRCS (United Kingdom)

Bruce Hall, MD (Australia)

Young Soo Kim, MD (South Korea)

Sarel Johannes Vorster, MD
(South Africa)

Kang-jun Yoon, MD (South Korea)

215
**THE FUTURE OF SPINE SURGERY:
WHAT'S NEW?**

SP

Moderator:

Mohamed Ramadan, MD (Egypt)

Speakers:

Alessandro Cesaroni, MD (Italy)

David Choi, MD (United Kingdom)

Jan Goffin, MD, PhD (Belgium)
Joan Frances O'Shea, MD
(United States)
Miroslav Vukic, MD (Croatia)

216 ADVANCES IN CERVICAL FUSIONS

Moderator:
Francois Porchet, MD (Switzerland)

Speaker:
Neil Duggal, MD (Canada)
Cumhur Kilincer, MD (Turkey)
Junichi Mizuno, MD, PhD (Japan)
Hiroschi Nakagawa, MD (Japan)
Keki E. Turel, MD (India)

217 REBUILDING THE INJURED BRAIN AND SPINAL CORD AFTER INJURY: FANTASY OR THE FUTURE?

Moderator:
Michael G. Feblings, MD, PhD (Canada)

Speakers:
M. Ross Bullock, MD, PhD
(United States)
Henrich Cheng, MD, PhD
(Taiwan ROC)
Hongyun Huang, MD, PhD
(People's Republic of China)
Asim Mahmood, MD (United States)
Massimiliano Visocchi, MD (Italy)

218 INTRACRANIAL STENOSIS: SURGICAL, ENDOVASCULAR AND MEDICAL MANAGEMENT

Moderator:
Susumu Miyamoto, MD, PhD (Japan)

Speakers:
Michael T. Lawton, MD (United States)
Elad I. Levy, MD (United States)
Ying Mao, MD
(People's Republic of China)
Waro Taki, MD (Japan)
Chang-Wan Oh, MD (South Korea)

219 SURGICAL TREATMENT OF BRAINSTEM CAVERNOUS MALFORMATIONS: INDICATIONS AND TECHNIQUES

Moderator:
Steven L. Giannotta, MD, FACS
(United States)

Speakers:
Helmut Bertalanffy, MD (Switzerland)
Massimo Collice, MD (Italy)
Mustapha El Azouzi, MD (Morocco)
Lars Kihlstrom, MD (Sweden)
Robert F. Spetzler, MD (United States)

220 SKULL BASE SURGICAL TECHNIQUES FOR SIMPLE AND COMPLEX INTRACRANIAL ANEURYSMS

Moderator:
Michel Bojanowski, MD (Canada)

Speakers:
Kazuhiro Hongo, MD (Japan)
Jafar Jewad Jafar, MD (United States)
Ali F. Krisht, MD (United States)
Panagiotis Selviarides, MD (Greece)
Jizong Zhao, MD
(People's Republic of China)

Topic Sessions 0845 - 0950

020 INTRAOPERATIVE MRI: TECHNOLOGY AND APPLICATIONS

Moderator:
Peter M. Black, MD, PhD (United States)

Speakers:
Walter A. Hall, MD (United States)
Christopher Nimsky, MD, PhD
(Germany)
Necmettin M. Pamir, MD (Turkey)

021 PERIPHERAL NERVE TUMORS

Moderator:
David G. Kline, MD (United States)

Speakers:
Alberto Alexandre, MD (Italy)
Abhijit Guha, MD (Canada)
Daniel H. Kim, MD, FACS
(United States)

022 RADIOSURGERY FOR BRAIN METASTASES

Moderator:
Roberto Spiegelmann, MD (Israel)

Speakers:
Roman Liscak, MD (Germany)
David Mathieu, MD, FRCS(C)
(Canada)
Masaaki Yamamoto, MD (Japan)

023 NEUROSURGICAL APPROACHES TO DYSTONIA

Moderator:
Damianos E. Sakas, MD (Greece)

Speakers:
Ron L. Alterman, MD (United States)
P. Richard Schuurman, MD
(Netherlands)
Takaomi Taira, MD, PhD (Japan)

024 MOTOR CORTEX STIMULATION THERAPY FOR POST-STROKE WEAKNESS

Moderator:
Yoichi Katayama, MD (Japan)

Speaker:
Jeffrey A. Brown, MD, FACS
(United States)
Jean-Paul Nguyen-Buu, MD (France)
Koichiro Ogura, MD (Japan)

025 SKULL BASE APPROACHES: MINIMAL ACCESS VS. MAXIMAL ACCESS

Moderator:
Jacques J. Morcos, MD, FRCS
(United States)

Speakers:
Takanori Fukushima, MD (United States)
Amin Kassam, MD (United States)
Axel Perneczky, MD, PhD (Germany)

026 SURGICAL MANAGEMENT OF MOYAMOYA DISEASE AND RELATED SYNDROMES: INDICATIONS AND TECHNIQUES

Moderator:
Kiyonobu Ikezaki, MD (Japan)

Speakers:

Kiyohiro Houkin, MD (Japan)
Leonidas Quintana Marin, MD (Chile)
R. Michael Scott, MD (United States)

027 MINIMALLY INVASIVE CERVICAL SPINE SURGERY

SP

Moderator:

Robert E. Isaacs, MD (United States)

Speakers:

John W. German, MD (United States)
John E. O'Toole, MD (United States)
Trent L. Tredway, MD (United States)

028 INTRAMEDULLARY SPINAL PATHOLOGY

SP

Moderator:

Kazutoshi Hida, MD (Japan)

Speakers:

Paul C. McCormick, MD (United States)
Yuri A. Shulev, MD (Russia)
Teiji Tominaga, MD (Japan)

029 STRATEGIES FOR TREATMENT OF SPINAL CORD INJURY

NT

Moderator:

Charles H. Tator, MD, PhD, MA
(Canada)

Speakers:

Ayhan Attar, MD (Turkey)
Michael Patrick Steinmetz, MD
(United States)
Eve C. Tsai, MD, PhD (Canada)

1030 - 1230 PLENARY SESSION II

Presiding Officer:

Jacques Brotchi, MD, PhD (Belgium)

Moderator:

Nelson M. Oyesiku, MD, PhD
(United States)

Speakers:

Intramedullary Tumor Surgery.
Success and Pitfalls.
Jacques Brotchi, MD, PhD (Belgium)

Turning Thoughts Into Action: Neural
Interface Systems to Restore
Movement in Humans with Paralysis

John P. Donoghue, PhD, MS
(United States)

Gamma Knife Radiosurgery After 40
Years: Current Standing in the
Management of Intracranial Tumors
Christer Lindquist, MD, PhD
(United Kingdom)

The Present State of Surgery of the
Peripheral Nerves

Hector Giocoli, MD (Argentina)

Luncheon Symposium 1245-1415

701 WFNS YOUNG NEUROSURGEONS
SYMPOSIUM: PROGRESS AND
DIVERSITY IN NEUROSURGERY -
THE WFNS IN THE 21ST CENTURY
Cost: No charge; please indicate
participation on registration form.

OTH

Director:

Gail L. Rosseau, MD, Chairman,
WFNS Young Neurosurgeons
Forum (United States)

Co-Director:

James D. Palmer, MD, Co-Chairman,
WFNS Young Neurosurgeons Forum
(United Kingdom)

WFNS Officers:

Atos Alves De Sousa, MD, WFNS
Education Committee Chairman
(Brazil)

Armando Basso, MD, WFNS
Foundation President (Argentina)

Peter M. Black, MD, PhD, WFNS
President-Elect (United States)

Jacques Brotchi, MD, PhD,
WFNS President (Belgium)

Rudolph Fahlbusch, MD, PhD,
WFNS Young Neurosurgeons
Awards Committee (Germany)

Speakers:

Vadim N. Bikmullin, MD, PhD (Russia)
Cengiz Cokluk, MD (Turkey)
Sarah Ferrand, MD (France)
Nadia Khan, MD (Switzerland)
Muhammad Raji Mahmud, MD
(Nigeria)
Tulio Pompeyo Murillo, MD (Honduras)
Farideh Nejat, MD (Iran)
Jaime Mauricio Pinto Vargas, MD
(Chile)
Humaira Siddiqi, FCPS, FICS (Pakistan)
Eve C. Tsai, MD, PhD (Canada)
Xi-Feng Zou, MD (People's Republic
of China)

Scientific Presentations by five (5)
Young Neurosurgeons Awardees

702 MY LIFE AS...

OTH

Cost: No charge; please indicate
participation on registration form.

Come listen to and be inspired by four
international neurosurgical luminaries
talk about what fuels their passions in
life and in work.

Director:

Jacques J. Morcos, MD, FRCS
(United States)

My Life...in Skull Base Surgery
Vinko Dolenc, MD PhD (Slovenia)

My Life...in Neurosurgical Education
Abdeslam El Khamlichi, MD (Morocco)

My Life...in Neuro-Aesthetics: The
Visual Arts and the Brain
Michael Salcman, MD (United States)

My Life...as an Addiction to
Neurosciences
M. Gazi Yasargil, MD (United States)

Oral Paper Sessions 1400 - 1600

Ten concurrent sessions will take place
with papers being presented by topic.

Interactive Sessions 1630 - 1730

806 EDUCATION AROUND
THE GLOBE: STATUS QUO OR
RESTRUCTURING? A ROUND TABLE

OTH

Moderator:

Tomasz Trojanowski, MD (Poland)

Panelists:

Jafri Malin Abdullah, MD PhD
(Malaysia)
Jorge S. Mendez, MD (Chile)
Necmettin M. Pamir, MD (Turkey)
A. John Popp, MD (United States)
Juraj Steno, MD PhD (Slovakia)

807 LATERAL CERVICAL DISC HERNIATION: POSTERIOR VS. ANTERIOR APPROACH. A DEBATE. SP

Moderator:

Rafael A. Lara Garcia, MD (Venezuela)

Debaters:

Posterior:

Edward C. Tarlov, MD (United States)

Anterior:

Enrique Urculo, MD (Spain)

808 THE ROLE OF SKULL BASE ENDOSCOPY: COMPLEMENTS, REPLACES, OR ANTAGONIZES TRADITIONAL SKULL BASE SURGERY? A ROUND TABLE SB

Moderator:

Fred Gentili, MD (Canada)

Panelists:

Jacques Caemaert, MD (Belgium)

Atul Goel, MD (India)

Ricardo Ramina, MD (Brazil)

Henry W. S. Schroeder, MD, PhD
(Germany)

Theodore H. Schwartz, MD
(United States)

Vo Van Nho, MD (Vietnam)

809 LOW GRADE GLIOMAS: CONSERVATIVE VS. AGGRESSIVE TREATMENT. A DEBATE. NO

Moderator:

Ahmed S. Ammar, MD, PhD
(Saudi Arabia)

Debaters:

Aggressive:

Mitchel S. Berger, MD, FACS
(United States)

Conservative:

Friedrich Wilhelm Kreth, MD (Germany)

810 ANEURYSM ROUND TABLE: WATCH, CLIP OR COIL CV

Moderator:

Gary G. Ferguson, MD, PhD (Canada)

Panelists:

Stanley L. Barnwell, MD, PhD
(United States)

H. Hunt Batjer, MD, FACS
(United States)

Juha Hernesniemi, MD, PhD (Finland)

Richard S.C. Kerr, MD
(United Kingdom)

Shigeaki Kobayashi, MD (Japan)

Jacques Moret, MD (France)

Video Sessions	1630 - 1730
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Five concurrent video sessions will cover the entire technical spectrum of operative neurosurgery in traditional eight minute video format. Topics and presenters to be determined.

NEUROSCIENCE NURSES, NURSE PRACTITIONERS AND PHYSICIAN ASSISTANT ACTIVITIES

For the first time ever, the World Federation of Neurosurgical Societies is pleased to invite neuroscience nurses, nurse practitioners and physician assistants to attend the World Congress of Neurological Surgery.

Included with the registration fee for neuroscience nurses, nurse practitioners and physician assistants is your choice of over 420 hours of educational programming (some of which will be eligible for nursing contact hours and all of which is eligible for CME) including topic sessions, plenary sessions, luncheon sessions, interactive sessions, oral abstract sessions and video sessions. For an additional fee, there is access to practical courses and breakfast sessions.

Additionally, two (2) special three hour programs are being designed just for neuroscience nurses, nurse practitioners and physician assistants on Tuesday, September 1, 2009 and Wednesday, September 2, 2009, from 1430 to 1730. Topics will include:

- o Neuroanatomy
- o Neurophysiology
- o Care and monitoring for patients with traumatic brain and spinal cord injury and acute cerebrovascular disease
- o Conservative and surgical treatment of degenerative spine disease
- o Brain tumors and the approach to treatment
- o Movement disorders
- o Benefits of multidisciplinary approach to patient care

For physician assistants, the American Academy of Physician Assistants (AAPA) accepts certificates of participation for educational activities certified for AMA PRA Category 1 Credit™.

For nurses, an application for approval of nursing contact hours on selected courses has been submitted to the Illinois Nurses Association Approver Unit. Please call AANS for more information about the contact hours.

Updated details will be available on the Web site. Please visit www.AANS.org/wfns2009.

WEDNESDAY,
SEPTEMBER 2, 2009

Breakfast Sessions 0700 - 0835

Cost: \$75.00 PER SESSION

301
VENTRICULAR TUMORS

NO

Moderator:

Guillermo Fernandez Molina, MD
(Argentina)

Speakers:

Guilherme C. Ribas, MD (Brazil)
Raymond Sawaya, MD (United States)
Ibrahim Sbeih, MD (Jordan)
Erdener Timurkaynak, MD (Turkey)
Peter A. Winkler, MD (Germany)

302
**PITUITARY ADENOMAS:
MANAGEMENT OUTCOMES**

NO

Moderator:

Armando Basso, MD (Argentina)

Speakers:

Apio Claudio Antunes, MD, PhD (Brazil)
Jun Ikeda, MD (Japan)
Ian E. McCutcheon, MD (United States)
Karen K. Miller, MD (United States)
Tuncalp Ozgen, MD (Turkey)

303
**NEURO-ENDOSCOPY IN TUMOR
MANAGEMENT**

NO

Moderator:

Enrico De Divitiis, MD (Italy)

Speakers:

Enrique Ferrer, MD, PhD (Spain)
Armen Melikian, MD, PhD (Russia)
Kazunari Oka, MD (Japan)
Ian Sabin, FRCS (United Kingdom)
Stefan Wolfsberger, MD (Austria)

304
**CRANIOPHARYNGIOMAS IN
CHILDREN: CONTROVERSIES IN
MANAGEMENT**

PED

Moderator:

Timothy B. Mapstone, MD
(United States)

Speakers:

Concezio Di Rocco, MD (Italy)
Walter John Hader, MD (Canada)
M. Memet Ozek, MD (Turkey)
Juraj Steno, MD, PhD (Slovakia)
Tadanori Tomita, MD (United States)

305
MANAGEMENT OF SPASTICITY

NM

Moderator:

Spyridon Sgouros, MD, FRCS (Greece)

Speakers:

Jeffrey P. Blount, MD, FACS
(United States)
Han-Jung Chen, MD, PhD
(Taiwan ROC)
Alejandro Cubillos Lobos, MD (Chile)
Moon Chan Kim, MD, PhD
(South Korea)
James D. Palmer, MD (United Kingdom)

306
**MANAGEMENT OF MENINGIOMAS
AROUND THE OPTIC APPARATUS:
HOW TO IMPROVE VISUAL OUTCOME**

SB

Moderator:

Abdeslam El Khamlichi, MD (Morocco)

Speakers:

Fred Gentili, MD (Canada)
Mitsuhiro Hasegawa, MD (Japan)
Imad N. Kanaan, MD, FACS
(Saudi Arabia)
Jose M. Selman Rossi, MD (Chile)
Berndt Wowra, MD (Germany)

307
**CRANIOCERVICAL JUNCTION
PATHOLOGIES**

SB

Moderator:

Arnold H. Menezes, MD (United States)

Speakers:

Sanjay Behari, MD (India)
H. Alan Crockard, DSc FRCS
(United Kingdom)
Tobru Matsui, MD (Japan)
Hiroshi Nakagawa, MD (Japan)
Massimiliano Visocchi, MD (Italy)

308
**PREDICTING GROWTH RATE IN
SKULL BASE TUMORS: DREAM OR
REALITY?**

SB

Moderator:

Moderator:

Michael W. McDermott, MD
(United States)

Speakers:

William T. Couldwell, MD, PhD
(United States)
Hee-Won Jung, MD (South Korea)
Kaoru Kurisu, MD (Japan)
Necmettin M Pamir, MD (Turkey)

309
SURGICAL TREATMENT OF DYSTONIA

SF

Moderator:

Philippe Coubes, MD, PhD (France)

Speakers:

Ahmed M. Alkhani, MD (Saudi Arabia)
Angelo Franzini, MD (Italy)
Chikashi Fukaya, MD (Japan)
Zelma HT Kiss, MD, PhD (Canada)
Joachim K. Krauss, MD (Germany)

310
INTRACRANIAL INFECTIONS

OTH

Moderator:

Vedantam Rajshekhar, MD (India)

Speakers:

Alfonso Antoniuk, MD (Brazil)
Mohamed E. El-Fiki, MD (Egypt)
Alexander Potapov, MD (Russia)
Bassem Y. Sheikh, MD, FRCS
(Saudi Arabia)
Eka Julianta Wahjoepramono, MD
(Indonesia)

311
**ETHICS IN NEUROSURGERY: ART,
LAW OR COMMON SENSE?**

OTH

Moderator:

A. John Popp, MD (United States)

Speakers:

Mark Bernstein, MD, FRCS(C) (Canada)
Rashid Jooma, MD (Pakistan)
Tiit I. Mathiesen, MD (Sweden)
Kalmon D. Post, MD (United States)
Tomasz Trojanowski, MD (Poland)

312
**THORACIC DISC HERNIATION:
OPERATIVE AND NON-OPERATIVE
MANAGEMENT**

SP

Moderator:

Yuri A. Shulev, MD (Russia)

The program and speakers are subject to change.

Speakers:

Patrick W. Hitchon, MD (United States)
 Shashank Sharad Kale, MD (India)
 Konstantinos Kouzelis, MD (Greece)
 Justin Paquette, MD (United States)
 Nirit Weiss, MD (United States)

313 PENETRATING SPINE TRAUMA SP

Moderator:

Premanand S. Ramani, MD (India)

Speakers:

Abbass Amirjamshidi, MD (Iran)
 Hildo R. C. Azevedo-Filho, MD (Brazil)
 Perry A. Ball, MD, FACS (United States)
 Jose C. Bustos, MD (Spain)
 Nachshon Knoller, MD (Israel)

314 CONTROVERSIES IN LUMBAR DISC SURGERY SP

Moderator:

Motio Shoda, MD (Japan)

Speakers:

Muwaffak M. Abdulhak, MD, FRCS (C)
 (United States)
 Octavio Cuadra Cardenas, MD (Chile)
 Richard Golden Perrin, MD, FRCS(C)
 (Canada)
 Franco Ravera Zunino, MD (Chile)
 Maurice M. Smith, MD (United States)

315 DEFORMITY SURGERY: WHEN, WHY, HOW? NT

Moderator:

Stephen L. Ondra, MD (United States)

Speakers:

Robert E. Isaacs, MD (United States)
 Frank La Marca, MD (United States)
 Junichi Mizuno, MD, PhD (Japan)
 Wilco Peul, MD (Netherlands)
 Christopher I. Shaffrey, MD
 (United States)

316 DIAGNOSIS AND MANAGEMENT OF VASCULAR LESIONS IN THE SEVERE TRAUMA PATIENT: DISSECTIONS, PSEUDOANEURYSMS AND VASOSPASM NT

Moderator:

Rocco A. Armonda, MD (United States)

Speakers:

Mustafa Kemal Baskaya, MD
 (United States)
 Alan S. Boulos, MD (United States)
 Mike du Treuou, MD (South Africa)
 Francisco R. Revilla-Pacheco, MD
 (Mexico)
 Ricardo Segal, MD (Israel)

317 SURGICAL AND NEUROPROTECTION TRIALS IN THE MANAGEMENT OF ACUTE SPINAL CORD INJURY NT

Moderator:

Izumi Koyanagi, MD (Japan)

Speakers:

Michael G. Fehlings, MD, PhD (Canada)
 Robert G. Grossman, MD
 (United States)
 R. John Hurlbert, MD, PhD (Canada)
 Marc Tadie, MD (France)
 Mario Augusto Taricco, MD (Brazil)

318 MANAGEMENT OF THE HIGH GRADE ANEURYSMAL SUBARACHNOID HEMORRHAGE PATIENT CV

Moderator:

Rose Du, MD, PhD (United States)

Speakers:

E. Sander Connolly, Jr. MD
 (United States)
 Juha Hernesniemi, MD, PhD (Finland)
 Yoko Kato, MD (Japan)
 John David Laidlaw, FRACS (Australia)
 Krishnamurthy Sridhar, MD (India)

319 THE ACUTE STROKE: INDICATIONS FOR SURGICAL AND ENDOVASCULAR INTERVENTION CV

Moderator:

Bob S. Carter, MD, PhD (United States)

Speakers:

Fady T. Charbel, MD (United States)
 Sebahattin Cobanoglu, MD (Turkey)
 Shunro Endo, MD (Japan)
 Kai U. Frerichs, MD (United States)
 Peter Thomas Ulrich, MD, PhD
 (Germany)

320

GENETICS OF CEREBROVASCULAR DISEASES: ANEURYSMS, CAVERNOUS MALFORMATIONS, AVMS AND ATHEROSCLEROSIS CV

Moderator:

Murat Gunel, MD (United States)

Speakers:

Issam A. Awad, MD (United States)
 Hidetoshi Kasuya, MD (Japan)
 Daniel H. Kim, MD, FACS
 (United States)
 Mika Niemela, MD, PhD (Finland)
 Luca Regli, MD (Netherlands)

Topic Sessions 0845 - 0950

030 BRAINSTEM TUMORS: SURGICAL APPROACHES AND RESULTS NO

Moderator:

Sergio Cavalheiro, MD (Brazil)

Speakers:

V. S. Mehta, MD, PhD (India)
 Nobuhito Saito, MD, PhD (Japan)
 Liang-Fu Zhou, MD
 (People's Rep of China)

031 SURGICAL ASPECTS OF PERIPHERAL NERVE TUMORS PN

Moderator:

Eduardo Fernandez, MD (Italy)

Speaker:

Mario G. Siqueira, MD (Brazil)
 Marcos S. Tatagiba, MD (Germany)
 Robert L. Tiel, MD (United States)

032 RADIOSURGICAL CHALLENGES RS

Moderator:

Steven D. Chang, MD (United States)

Speakers:

Julio Antico, PhD (Argentina)
 William A. Friedman, MD, FACS
 (United States)
 Jeremy Rowe, MD (United Kingdom)

033 ENDOSCOPIC SURGERY FOR SELLAR AND SUPRASellar LESIONS

SB

Moderator:

Paolo Cappabianca, MD (Italy)

Speakers:

Luigi M. Cavallo, MD (Italy)

Luiz Carlos de Alencastro, MD (Brazil)

Amin Kassam, MD (United States)

034 ACOUSTIC NEUROMAS: WHY SHOULD WE OPERATE?

SB

Moderator:

Douglas S. Kondziolka, MD
(United States)

Speakers:

Stephen J. Haines, MD (United States)

Jean Regis, MD (France)

Tomio Sasaki, MD (Japan)

035 PSYCHOSURGERY: DREAMS AND REALITIES

SF

Moderator:

Andres M. Lozano, MD, PhD (Canada)

Speakers:

Emad N. Eskandar, MD (United States)

Moon Chan Kim, MD, PhD

(South Korea)

Bart Nuttin, MD (Belgium)

036 THE STATUS OF BYPASS SURGERY IN 2009: INDICATIONS AND TECHNIQUES

CV

Moderator:

Akira Ogawa, MD (Japan)

Speakers:

David J. Langer, MD (United States)

Dong-Youl Rhee, MD (South Korea)

Gary K. Steinberg, MD, PhD

(United States)

OTH

037 NEUROSURGICAL EDUCATION: CHALLENGES AND OPPORTUNITIES

Moderator:

Edward C. Benzel, MD (United States)

Speakers:

Abdeslam El Khamlichi, MD (Morocco)

A. John Popp, MD (United States)

Robert A. Ratcheson, MD

(United States)

PED

038 CSF HYDRODYNAMICS: HYDROCEPHALUS, PSEUDOTUMOR, CHIARI AND SYRINGOMYELIA: THEORIES, PATHOLOGY AND TREATMENTS

Moderator:

Ghassan K. Bejjani, MD (United States)

Speakers:

Kristian Eide, MD (Norway)

Thomas H. Milhorat, MD

(United States)

Marianne Vonau, MD (Australia)

039 RADIOSURGERY FOR TUMORS

SP

Moderator:

Lilyana Angelov, MD, FRCS(C)

(United States)

Speakers:

John R. Adler Jr., MD (United States)

Peter C. Gerszten, MD, MPH

(United States)

Jack P. Rock, MD (United States)

1030 - 1230

PLENARY SESSION III

Presiding Officer:

Arthur L. Day, MD, FACS

(United States)

Moderator:

Robert A. Ratcheson, MD

(United States)

Speakers:

Brain Tumor Biology and Future Therapies

Andrew H. Kaye, MD (Australia)

Sirtuins in the Treatment of Neurodegeneration

David A. Sinclair, PhD (United States)

Skull Base Surgery: The Essence and the Thrive

Ossama Al-Mefty, MD (United States)

Minimally Invasive, Motion Preservation Experience as the New Trend for Spine Surgery

Luiz Henrique de Mattos Pimenta, MD,
PhD (Brazil)

Luncheon Symposium 1245 - 1415

703 THE STATUS AND FUTURE OF CEREBROVASCULAR SURGERY AROUND THE WORLD—A SPECIAL SYMPOSIUM

Cost: No charge; please indicate participation on registration form

Director:

Bernd Richling, MD (Austria)

CV

Speakers:

The Status of Endovascular Therapy for Brain Aneurysms in the Developing Regions of the World

Ling Feng, MD

(People's Republic of China)

The Status of Surgical Therapy for Brain Aneurysms in the Developing Regions of the World

Basant Kumar Misra, MD (India)

The Status of Prospective Randomized Trials for Cerebrovascular Disease

Robert F. Spetzler, MD (United States)

What Will Be the Future of Vascular Neurosurgery in an Endovascular World?

Bernd Richling, MD (Austria)

706 ADVANCED NEUROSURGERY: A FUTURISTIC KALEIDOSCOPE OF OPPORTUNITY

OTH

Cost: No charge; please indicate participation on registration form

Co-Directors:

Michael L. J. Apuzzo, MD (United States)

Enrico De Divitiis, MD (Italy)

Dong Gyu Kim, MD (Korea)

Speakers:

The Metamorphosis of Neurosurgery and the Reinvention of the Neurosurgeon

Michael L. J. Apuzzo, MD (United States)

Nanotechnology and the Creation of Complex Therapeutic Polymers

Robert S. Langer, ScD (United States)

The Creation of Virtual Environments for Training and Practice of Neurosurgery

Ralf A. Kanko, MD (Germany)

The Promise of Robotics and Augmentation of Technical Abilities in Neurosurgery

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

The Dawning of the “New” in Imaging of the CNS
 Bruce R. Rosen, MD, PhD (United States)

Oral Paper Sessions 1400 - 1600

Ten concurrent sessions will take place with papers being presented by topic.

Neuroscience Nurse, Nurse Practitioner and Physician Assistant Program 1430-1730
 See page 18 for details.

Interactive Sessions 1630 - 1730

811 TREATMENT OF HYDROCEPHALUS IN CHILDREN: ENDOSCOPIC THIRD VENTRICULOSTOMY VS. SHUNTING. A DEBATE **PED**

Moderator:
 Shizuo Oi, MD (Japan)

Debaters:
Endoscopic Third Ventriculostomy:
 George I. Jallo, MD (United States)

Shunting:
 Richard D. Hayward, MD
 (United Kingdom)

812 ICP MONITORING AFTER HEAD INJURY: STANDARD OF CARE? WHY? HOW? A ROUND TABLE **NT**

Moderator:
 Gouri Prusty, MD (India)

Panelists:
 William M. Coplin, MD (United States)
 Javaid Iqbal, MD (Qatar)
 Tatsuro Kawamata, MD (Japan)
 Christopher J. Madden, MD
 (United States)
 Andreas W. Unterberg, MD, PhD
 (Germany)

813 LUMBAR SPONDYLOSIS: WHEN TO FUSE? A ROUND TABLE **SP**

Moderator:
 Uldarico Rocca, MD, PhD (Peru)

Panelists:
 Pedro David Delgado López, MD
 (Spain)

Mohamed Hafez, MD (Egypt)
 Hulagu Kaptan, MD (Turkey)
 J. Taylor, MD (France)

814 PETROCLIVAL MENINGIOMAS ROUND TABLE: CONTROVERSIES IN TREATMENT **SB**

Moderator:
 Jacques J. Morcos, MD, FRCS
 (United States)

Panelists:
 Ossama Al-Mefty, MD (United States)
 Vinko Dolenc, MD, PhD (Slovenia)
 Hee-Won Jung, MD (South Korea)
 Takeshi Kawase, MD (Japan)
 Jean Regis, MD (France)
 Madjid Samii, MD, PhD (Germany)

820 SPINAL DURAL ARTERIOVENOUS FISTULAE (DAVFS) TREATMENT: MICROVASCULAR VS ENDOVASCULAR. A DEBATE **CV**

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

Speaker:
Endovascular:
 Alejandro Berenstein, MD (United States)
Microsurgical:
 Edward H. Oldfield, MD (United States)

Video Sessions 1630 - 1730

Five concurrent video sessions will cover the entire technical spectrum of Operative Neurosurgery in traditional eight minute video format. Topics and presenters to be determined.

**THURSDAY,
 SEPTEMBER 3, 2009**

Breakfast Sessions 0700 - 0835

Cost: \$75.00 Per Person

401 ACOUSTIC NEUROMAS: SURGICAL APPROACHES AND LONG TERM RESULTS **NO**

Moderator:
 Robert L. Martuza, MD (United States)
Speakers:
 Paul Joseph Camarata, MD
 (United States)
 Atul Goel, MD (India)
 Fernando Knezevich, MD (Argentina)
 Madjid Samii, MD, PhD (Germany)
 Eduard Zverina, MD (Czech Republic)

402 INTRAOPERATIVE IMAGING AND GUIDANCE **NO**

Moderator:
 Rudolph Faibilbusch, MD, PhD
 (Germany)

Speakers:
 Oliver Bozinov, MD (Switzerland)
 Christopher Nimsky, MD, PhD
 (Germany)
 Walter Stummer, MD (Germany)
 Jeffrey S. Weinberg, MD (United States)
 Fumio Yamaguchi, MD, PhD (Japan)

403 CONVEXITY MENINGIOMAS **NO**

Moderator:
 Giovanni Broggi, MD (Italy)

Speakers:
 Benedicto Oscar Colli, MD (Brazil)
 Vinko Dolenc, MD, PhD (Slovenia)
 Muhammad Raji Mahmud, MD
 (Nigeria)
 Elie Samaha, MD (Lebanon)
 Marc P. Sindou, MD, DSc (France)

404 PITUITARY ADENOMAS: DRUGS, RADIOSURGERY OR SURGERY? WHEN AND HOW? **NE**

Moderator:
 Paul B. Nelson, MD (United States)

Speakers:
 Engelbert Knosp, MD (Austria)
 Cheng-Loong Liang, MD (Taiwan ROC)
 Koshiro Nishikuni, MD (Brazil)
 Michael Powell, MD (United Kingdom)
 Patrick Semple, MD (South Africa)

The program and speakers are subject to change.

405 **CONTROVERSIES IN THE MANAGEMENT OF PEDIATRIC SPINE ANOMALIES**

PED

Moderator:

Douglas L. Brockmeyer, MD
(United States)

Speakers:

Joong Uhn Choi, MD (South Korea)
Andrew H. Jea, MD (United States)
A. K. Mahapatra, MD (India)
Paul Steinbok, MD (Canada)
Michel Zerah, MD (France)

406 **CONTROVERSIES IN THE MANAGEMENT OF PEDIATRIC ARACHNOID CYSTS**

PED

Moderator:

Harold Louis Rekaté, MD (United States)

Speakers:

Sergio Cavalheiro, MD (Brazil)
Shizuo Oi, MD (Japan)
John Ragheb, MD, FACS (United States)
Charles Teo, MD (Australia)
Sergio Valenzuela Abasolo, MD (Chile)

407 **RADIOSURGERY FOR VASCULAR MALFORMATIONS**

RS

Moderator:

William A. Friedman, MD, FACS
(United States)

Speakers:

Julio Antico, PhD (Argentina)
K. Ganapathy, MD, FACS (India)
Bruce E. Pollock, MD (United States)
Michael Louis Schwartz, MD (Canada)
Gyorgy T. Szeifert, MD, PhD (Hungary)

408 **MOTOR CORTEX STIMULATION FOR CENTRAL PAIN**

NM

Moderator:

Yves R. Lazorthes, MD (France)

Speakers:

Yoichi Katayama, MD (Japan)
Jean-Paul Nguyen-Buu, MD (France)
Benoit JM Pirotte, MD (Belgium)
Ahmed M. Raslan, MD (United States)
Claudio G. Yampolsky, MD (Argentina)

409 **NEUROREHABILITATION AND NEUROSURGERY**

NR

Moderator:

Klaus R.H. von Wild, MD (Germany)

Speakers:

Jafri Malin Abdullah, MD, PhD
(Malaysia)
Vladimir Jovanovic, MD
(Serbia and Montenegro)
Kazadi Kalanngu, MD (Zimbabwe)
Jean-Rodolphe Vignes, MD (France)
Takamitsu Yamamoto, MD (Japan)

410 **PETROCLIVAL MENINGIOMAS: SKULL BASE OR CONVENTIONAL APPROACHES?**

SB

Moderator:

Takeshi Kawase, MD (Japan)

Speakers:

Hee-Won Jung, MD (South Korea)
Zainal Muttaqin, MD (Indonesia)
Ibrahim Sbeih, MD (Jordan)
Marcos S. Tatagiba, MD (Germany)
Harry R. van Loveren, MD
(United States)

411 **FORAMEN MAGNUM TUMORS**

SB

Moderator:

Bernard George, MD (France)

Speakers:

Pablo Marcelo Ajler, MD (Argentina)
Miguel Angel Arraez Sanchez, MD
(Spain)
Helmut Bertalanffy, MD (Switzerland)
Michael Bruneau, MD (Belgium)
Chandranath Sen, MD (United States)

412 **SURGICAL TREATMENT OF EPILEPSY**

SF

Moderator:

Johannes Schramm, MD, Prof (Germany)

Panelists:

William Harkness, MD (United Kingdom)
Tomokatsu Hori, MD (Japan)
Andre Olivier, MD, PhD (Canada)
Eiju Watanabe, MD (Japan)
Robert E. Wharen Jr., MD
(United States)

413 **VIRTUAL REALITY AND ROBOTICS IN NEUROSURGERY**

OTH

Moderator:

Alim L. Benabid, MD, PhD (France)

Speakers:

Saleem I. Abdulrauf, MD (United States)
Kazuhiro Hongo, MD (Japan)
Gerald Michael Lemole Jr., MD
(United States)
Garnette Roy Sutherland, MD, FRCS(C)
(Canada)
Toshiki Yoshimine, MD, PhD (Japan)

414 **SPINE SURGERY TRAINING: WHAT THE FUTURE HOLDS**

SP

Moderator:

H. Alan Crockard, DSc, FRCS
(United Kingdom)

Speakers:

Deborah L. Benzil, MD (United States)
Kevin T. Foley, MD (United States)
Phyo Kim, MD, PhD (Japan)
Richard P. Schlenk, MD (United States)
Jorge Shilton, MD (Argentina)

415 **LUMBAR SPONDYLOSIS**

SP

Moderator:

Zoher Ghogawala, MD (United States)

Speakers:

Remberito Burgos, MD (Colombia)
Gilbert Dechambenoit, MD
(Cote d'Ivoire)
Arthur L. Jenkins III, MD
(United States)
Juergen C.W. Kiwit, MD (Germany)
Antoine K. Nachanakian, MD (Lebanon)

416 **SURGERY OF CONGENITAL CRANIO-CERVICAL JUNCTION ANOMALIES**

SP

Moderator:

Gustavo Adolpho de Carvalho, MD
(Brazil)

Speakers:

Sunil Kumar Gupta, MD (India)
R. John Hurlbert, MD, PhD (Canada)
Arnold H. Menezes, MD (United States)
Sait Naderi, MD (Turkey)
V. Radchenko, MD (Ukraine)

417
CHRONIC SPINAL PAIN SP

Moderator:

Miguel Giudicissi-Filho, MD (Brazil)

Panelists:

Marcos Baabor Aqueveque, MD (Chile)

Giancarlo Barolat, MD (United States)

Jaimie M. Henderson, MD
(United States)

Andre Guelman Machado, MD, PhD
(United States)

Richard B. North, MD (United States)

418
TRAUMATIC BRAIN INJURY IN SPORTS: WHEN CAN THE ATHLETE RETURN TO PLAY? NT

Moderator:

Joseph Charles Maroon, MD
(United States)

Speakers:

R. Leigh Atkinson, MD (Australia)

Julian E. Bailes Jr., MD (United States)

Franco Benech, MD (Italy)

Robert C. Cantu, MD, FACS
(United States)

Thomas A. Gennarelli, MD
(United States)

419
MANAGEMENT OF VASOSPASM FOLLOWING ANEURYSMAL SUBARACHNOID HEMORRHAGE CV

Moderator:

R. Loch Macdonald, MD, PhD
(Canada)

Speakers:

Alexander A. Andreou, MD (Greece)

Dae Hee Han, MD, PhD (South Korea)

Stephen B. Lewis, MD, FRCS
(United States)

Warren R. Selman, MD (United States)
Peter Vajkoczy, MD (Germany)

420
INTRACEREBRAL HEMORRHAGE: MANAGEMENT IN 2009 CV

Moderator:

Sherif Ezzat, MD (Egypt)

Speakers:

Issam A. Awad, MD (United States)

Neil D. Kitchen, MD, FRCS
(United Kingdom)

Alexander David Mendelow, FRCS,
PhD (United Kingdom)

Michiyasu Suzuki, MD, PhD (Japan)

Mario Zuccarello, MD (United States)

Topic Sessions **0845 - 0950**

040 CONVECTION ENHANCED DELIVERY: PROMISES AND LIMITATIONS NO

Moderator:

Edward H. Oldfield, MD (United States)

Speakers:

Randy Lynn Jensen, MD, PhD
(United States)

John H. Sampson, MD, PhD
(United States)

Mark M. Souweidane, MD
(United States)

041 PEDIATRIC NEURAL TUBE DEFECTS: CLINICAL MANIFESTATIONS AND TREATMENT PED

Moderator:

Spyridon Sgouros, MD, FRCS (Greece)

Speakers:

Bermans J. Iskandar, MD (United States)

Enrique C. Ventureyra, MD (Canada)

Seow Wan Tew, MD (Singapore)

042 NEUROSURGICAL APPROACHES TO INTRACTABLE HEADACHE NM

Moderator:

Laurence Watkins, FRCS (England)

Speakers:

Giancarlo Barolat, MD (United States)

Konstantin V. Slavin, MD (United States)

Richard L. Weiner, MD (United States)

043 PETROCLIVAL MENINGIOMAS: THE ART OF ACHIEVING QUALITY OF LIFE SB

Moderator:

Ossama Al-Mefty, MD (United States)

Speakers:

Sang-Won Lee, MD (South Korea)

Kenji Ohata, MD, DMSc (Japan)

Volker Seifert, MD, PhD (Germany)

044 NEW HORIZONS IN STEREOTACTIC AND FUNCTIONAL NEUROSURGERY SF

Moderator:

Alim L. Benabid, MD, PhD (France)

Speakers:

Giovanni Broggi, MD (Italy)

Jin Woo Chang, MD (South Korea)

Ali R. Rezai, MD (United States)

045 CAROTID STENOSIS IN 2009: STENT OR ENDARTERECTOMY? CV

Moderator:

Christopher M. Loftus, MD, FACS
(United States)

Speakers:

Nagata Izumi, MD (Japan)

Vladimir Priban, MD (Czech Republic)

Akira Takahashi, MD (Japan)

046 ACUTE ISCHEMIC STROKE: SURGICAL INDICATIONS AND TECHNIQUES CV

Moderator:

Robert M. Friedlander, MD
(United States)

Speakers:

Jay Max Findlay, MD, PhD (Canada)

Christopher S. Ogilvy, MD
(United States)

B. Gregory Thompson Jr., MD
(United States)

047 TECHNOLOGY AND TELEMEDICINE IN NEUROSURGERY OTH

Moderator:

K. Ganapathy, MS, FACS (India)

Speakers:

Tetsuo Kanno, MD (Japan)

Neil A. Martin, MD (United States)

Franco Servadei, MD (Italy)

048 SPINAL CORD INJURY RESEARCH SP

Moderator:

Barth A. Green, MD, FACS
(United States)

Speakers:

Matthew McDonald, MD (Australia)

Scott A. Shapiro, MD (United States)

Michael Patrick Steinmetz, MD
(United States)

**049 SPINAL ALIGNMENT:
SAGITTAL AND CORONAL BALANCE**

SP

Moderator:

Praveen V. Mummaneni, MD
(United States)

Speakers:

Izumi Koyanagi, MD (Japan)
Stephen L. Ondra, MD (United States)
Katherine Whitcome, PhD (United States)

**1030 - 1230
PLENARY SESSION IV**

Presiding Officer:

A. John Popp, MD (United States)

Moderator:

Peter M. Black, MD, PhD
(United States)

Speakers:

**Surgery for Brainstem Lesions: No
More No Man's Land**
Albino P. Bricolo, MD (Italy)

**Toward the Design and Synthesis of
an Artificial Cell**

Jack W. Szostak, PhD (United States)

**Intraoperative Visualization of Brain
Tumors: Advantages of Functional
Navigation and Intraoperative MRI**

Rudolph Fahlbusch, MD, PhD
(Germany)

**Worldwide Trends and New
Developments in Traumatic Brain
Injury**

M. Ross Bullock, MD, PhD
(United States)

Luncheon Symposia 1245 - 1415

**704 WFNS SPINE COMMITTEE
SYMPOSIUM—EMERGING
TECHNOLOGY IN THE MANAGEMENT
OF LUMBAR INSTABILITY**

SP

**Cost: No charge; please indicate
participation on registration form**

Director:

George J. Dohrmann, MD
(United States)

Co-Directors:

Miguel Giudicissi-Filho, MD (Brazil)
Mehmet Zileli, MD (Turkey)

Speakers:

Posterior Lumbar Interbody Fusion
Motio Shoda, MD (Japan)

**Posterior Dynamic Stabilization with
Dynesys**

Chun-Kun Park, MD, PhD
(South Korea)

**Results of PLIF Procedure with PEEK
Cage in the Lumbar Spine**

Francois Porchet, MD (Switzerland)

**Minimally Invasive PLIF with Disc-O-
Tech B-Twin Expandable Cages**

Premanand S. Ramani, MD (India)

Lumbar Fusion with PEEK Rods

Vincent C. Traynelis, MD
(United States)

**Options in Posterior Lumbar Dynamic
Stabilization**

Patrick W. Hitchon, MD (United States)

**Percutaneous Pedicle Screw Stabilization
of Unstable Lumbar Spine**

Deepak Awasthi, MD, FACS
(United States)

**Facet Replacement and XLIF in
Lumbar Instability**

Luiz Henrique de Mattos Pimenta,
MD, PhD (Brazil)

**Use of Robots in the Management of
Lumbar Instability**

Devanand A. Dominique, MD
(United States)

**The Use of Biopolymer in the
Treatment of Spine Instability**

Marcos Masini, MD (Brazil)

**705 WOMEN IN NEUROSURGERY
(WIN): A SAMPLING OF THEIR BEST
SCIENCE**

OTH

**Cost: No charge; please indicate
participation on registration form**

Director:

Yoko Kato, MD (Japan)

Faculty:

Topics TBA

Lucia Benvenuti, MD (Italy)

Najia Elabbadi Bendahane, MD,
(Morocco)

Ling Feng, MD

(People's Republic of China)

Junko Matsuyama, MD (Japan)

Aurora Martinez-Rodrigo, MD (Spain)

Carolina Martins, MD, PhD (Brazil)

Gail L. Rosseau, MD (United States)

Gabriele Schackert, MD (Germany)

Tze-Ching Tan, MBBS, FRCS

(Hong Kong)

Oral Paper Sessions 1400 - 1600

Ten concurrent sessions will take place
with papers being presented by topic.

Interactive Sessions 1630 - 1730

**816 CAN/SHOULD ONE
NEUROSURGEON TRAIN AND
PRACTICE IN BOTH MICROVASCULAR
AND ENDOVASCULAR SURGERY?
AN INTERNATIONAL ROUND TABLE**

CV

Moderator:

Howard A. Riina, MD (United States)

Panelists:

Microsurgery Only:

Steven L. Giannotta, MD, FACS
(United States)

Juha Hernesniemi, MD, PhD (Finland)

Endovascular Only:

Cameron G. McDougall, MD
(United States)

Makoto Sonobe, MD (Japan)

Both:

Erik Fosse, MD (Norway)

Yuichi Murayama, MD (United States)

**Interventional Neuroradiologist's
Perspective:**

Alejandro Berenstein, MD (United States)

Jacques Moret, MD (France)

**817 CASE PRESENTATIONS WITH
COMPLEX SKULL BASE PATHOLOGY:
ASK THE EXPERTS**

SB

Moderator:

Anil Nanda, MD, FACS (United States)

Panelists:

Massimo Giovanelli, MD (Italy)

Hae-Dong Jho, MD, PhD (United States)

Ali Liu, MD (People's Republic of China)

Chandranath Sen, MD (United States)

Felix Umansky, MD (Israel)

Kahdar Wiriadisastra, MD, PhD
(Indonesia)

818 CONTROVERSIAL CASES IN NEURO-ONCOLOGY: ASK THE EXPERTS

NO

Moderator:

Alejandra Teresa Rabadan, MD
(Argentina)

Panelists:

Yong-Gu Chung, MD, PhD
(South Korea)

Ricardo Diez Valle, MD (Spain)

Francesco DiMeco, MD (Italy)

Andrew H. Kaye, MD (Australia)

Bal Krishna Thapa, MD (Nepal)

819 PITUITARY MACROADENOMAS ROUND TABLE: RADICAL RESECTION VS. CONSERVATIVE RESECTION WITH POSTOPERATIVE RADIATION VS. RADIOSURGERY

NE

Moderator:

John A. Jane, Jr., MD (United States)

Panelists:

John R. Adler, Jr., MD (United States)

Rudolph Fablbusch, MD, PhD
(Germany)

Pietro Mortini, MD (Italy)

Michael Powell, MD (United Kingdom)

Xiang Zhang, MD

(People's Republic of China)

820 SPINAL DISORDERS: HOW ARE THEY HANDLED DIFFERENTLY IN SIX CONTINENTS? ASK THE EXPERTS

NO

Moderator:

Edward C. Benzel, MD (United States)

Panelists:

Upendra P. Devkota, MD, FRCS (Nepal)

Moncef Khaldi, MD (Tunisia)

Abraham Krivoy, MD (Venezuela)

Quentin J. Malone, MD, MBA
(Australia)

Paul C. McCormick, MD
(United States)

Alexander Petkov, MD, PhD (Bulgaria)

Video Sessions 1630 - 1730

Five concurrent video sessions will cover the entire technical spectrum of Operative Neurosurgery in traditional eight minute video format. Topics and presenters to be determined.

FRIDAY, SEPTEMBER 4, 2009

Breakfast Sessions 0700 - 0835

COST \$75.00 PER PERSON

501 BIOLOGY OF MALIGNANT GLIOMAS: NEW DISCOVERIES

NO

Moderator:

Philip H. Gutin, MD (United States)

Speakers:

Amy B. Heimberger, MD (United States)

Yuichi Hirose, MD, DMSc (Japan)

Mark D. Johnson, MD (United States)

Kaoru Kurisu, MD (Japan)

Takao Watanabe, MD (Japan)

502 SPINAL CORD AND SACRAL TUMORS

NO

Moderator:

Jacques Brotchi, MD, PhD (Belgium)

Speakers:

Hildo R. C. Azevedo-Filho, MD (Brazil)

Piero Conti, MD (Italy)

Laurence D. Rhines, MD (United States)

Christopher I. Shaffrey, MD (United States)

Mehmet Zileli, MD (Turkey)

503 CUSHING'S DISEASE

NE

Moderator:

Edward H. Oldfield, MD
(United States)

Speakers:

Imaduddin Kanaan, MD, FACS
(Saudi Arabia)

D. Luedecke, MD (Germany)

Jorge D. Oviedo, MD (Argentina)

Zvi Ram, MD (Israel)

Brooke Swearingen, MD (United States)

504 PEDIATRIC PINEAL REGION TUMORS

PED

Moderator:

J. Gordon McComb, MD (United States)

Speakers:

Paul D. Chumas, FRCS
(United Kingdom)

Richard G. Ellenbogen, MD FACS
(United States)

Seung-Ki Kim, MD (South Korea)

Aurelia Peraud, MD (Germany)
Graciela N. Zuccaro, MD (Argentina)

505 FUNCTIONAL RADIOSURGERY

RS

Moderator:

Andras A. Kemeny, MD
(United Kingdom)

Speakers:

Alain C. J. de Lotbiniere, MD, FRCS(C)
(United States)

Antonio A. F. De Salles, MD, PhD
(United States)

Marc Levivier, MD, PhD (Switzerland)

Francois-Xavier Roux, MD (France)

506 EARLY REHABILITATION OF HIGHER CORTICAL BRAIN FUNCTION

NR

Moderator:

Alexandru Vladimir Ciurea, MD
(Romania)

Speakers:

Takahiro Maeda, MD (Japan)

Hideki Oshima, MD (Japan)

Wai S. Poon, CRNA (Hong Kong)

Kaoru Sakatani, MD, DMSc

(People's Republic of China)

Klaus R.H. von Wild, MD (Germany)

507 CLIVAL CHORDOMAS: MULTIDISCIPLINARY APPROACHES

SB

Moderator:

Murali Guthikonda, MD, FACS
(United States)

Speakers:

Franco De Monte, MD FACS
(United States)

Bernard George, MD (France)

Bruce E. Pollock, MD (United States)

Laligam N. Sekhar, MD, FACS
(United States)

Charles Teo, MD (Australia)

508 CAVERNOUS SINUS MENINGIOMAS: RESECTION OR RADIOSURGERY?

SB

Moderator:

Ossama Al-Mefty, MD (United States)

The program and speakers are subject to change.

Speakers:

Chun Siang Chen, MD (United States)
Atul Goel, MD (India)
Jacques Philippon, MD (France)
Wolf Ingo Steudel, MD (Germany)
Masaaki Yamamoto, MD (Japan)

509 **SB** INVASIVE PITUITARY ADENOMAS

Moderator:

Moshe Hadani, MD (Israel)

Speaker:

Masahiko Kitano, MD (Japan)
Jose Alberto Landeiro, MD (Brazil)
Edward R. Laws Jr., MD
(United States)
Nelson M. Oyesiku, MD, PhD
(United States)
Tuncalp Ozgen, MD (Turkey)

510 **SF** PSYCHOSURGERY

Moderator:

G. Rees Cosgrove, MD, FRCS(C)
(United States)

Speakers:

Jin Woo Chang, MD (South Korea)
Kelly Douglas Foote, MD (United States)
Brian H. Kopell, MD (United States)
Damianos E. Sakas, MD (Greece)
Volker Sturm, MD (Germany)

511 **SF** NEW HORIZONS IN STEREOTACTIC AND FUNCTIONAL NEUROSURGERY

Moderator:

Tipu Z. Aziz, MD (United Kingdom)

Speakers:

Gerhard M. Friehs, MD (United States)
Theodoros Kombos, MD (Germany)
Paolo Mazzone, MD (Italy)
Ali R. Rezai, MD (United States)
Francisco Velasco-Campos, MD, PhD
(Mexico)

512 **OTH** HISTORY OF NEUROSURGERY

Moderator:

Eugene S. Flamm, MD (United States)

Speakers:

Armando Basso, MD (Argentina)

Philip L. Gildenberg, MD, PhD
(United States)

Fuad Sami Haddad, MD (Lebanon)
Tetsuo Kanno, MD (Japan)
Uldarico Rocca, MD, PhD (Peru)

513 **SP** TETHERED CORD SYNDROME IN THE US: PREVALENCE, PATHOPHYSIOLOGY AND CONTROVERSIES IN MANAGEMENT

Moderator:

Shokei Yamada, MD (United States)

Speakers:

Barth A. Green, MD, FACS
(United States)
Mark G. Luciano, MD, PhD
(United States)
David Gordon McLone, MD, PhD
(United States)
Karin M. Muraszko, MD (United States)
Leslie N. Sutton, MD (United States)

514 **SP** LUMBAR STENOSIS: LAMINECTOMY, FUSION, OR INSTRUMENTATION?

Moderator:

Moon-Jun Sohn, MD (South Korea)

Speakers:

Phyo Kim, MD, PhD (Japan)
Andrzej Radek, MD (Poland)
Volker K. H. Sonntag, MD
(United States)
Nikitas Vodos, MD (Australia)
Patricio Yokota Beuret, MD (Chile)

515 **SP** BIOLOGICAL MATERIALS IN SPINE SURGERY: WHAT'S NEW AND HOW MUCH WILL IT COST?

Moderator:

Gilles Perrin, MD (France)

Speakers:

Patricio Bustos, MD (Chile)
Mark N. Hadley, MD, FACS
(United States)
Larry T. Khoo, MD (United States)
Bernard Meyer, MD (Germany)
Vincent C. Traynelis, MD (United States)

516 **NT** TRANSPLANTATION AND OTHER REGENERATION STRATEGIES FOR TREATMENT OF SPINAL CORD INJURY IN HUMANS

Moderator:

James D. Guest, MD, PhD
(United States)

Speakers:

Henrich Cheng, MD, PhD
(Taiwan ROC)
Nachshon Knoller, MD (Israel)
Hyung-Chun Park, MD, PhD
(South Korea)
Scott A. Shapiro, MD (United States)
Charles H. Tator, MD, PhD, MA
(Canada)

517 **CV** MANAGEMENT OF VEIN OF GALEN AND OTHER NEONATAL/EARLY INFANCY ARTERIOVENOUS SHUNTS

Moderator:

Edward Robert Smith, MD
(United States)

Panelists:

Felipe C. Albuquerque, MD
(United States)
Alejandro Berenstein, MD
(United States)
Mohammed Ali Aziz-Sultan, MD
(United States)
Abraham Krivoy, MD (Venezuela)
Charles Joseph Prestigiacomo, MD, FACS
(United States)

518 **CV** MANAGEMENT OF SPINAL VASCULAR MALFORMATIONS

Moderator:

Robert F. Spetzler, MD (United States)

Panelists:

Michel Eli Frudit, MD (Brazil)
Michael K. Morgan, MD (Australia)
Hans-Jakob Steiger, MD (Germany)
Teiji Tominaga, MD (Japan)
Marco Zenteno, MD (Mexico)

519

COMPLEX CRANIAL AVMS (LARGE, ELOQUENT, DEEP): TREATMENT OPTIONS AND OUTCOMES



Moderator:

Roberto C. Heros, MD (United States)

Speakers:

Vladimir Benes Jr., MD, PhD (Czech Republic)
 Paulo Andrade de Mello, MD (Brazil)
 Francois Nataf, MD (France)
 Mika Niemela, MD, PhD (Finland)
 Yong-Kwang Tu, MD (Taiwan ROC)

520

INTERNATIONAL VOLUNTEERISM IN NEUROSURGERY: CHALLENGES AND OPPORTUNITIES



Moderator:

Merwyn Bagan, MD, MPH (United States)

Speakers:

Jonathan G. Bull, MRCS (United Kingdom)
 Karim Mukhida, MD (Canada)
 Gail L. Rosseau, MD (United States)
 Ashwin Viswanathan, MD (United States)
 Benjamin C. Warf, MD (United States)

Topic Sessions 0845 - 0950

050 COLLOID CYST MANAGEMENT: ENDOSCOPY VS. MICROSURGERY

Moderator:

Alan R. Cohen, MD, FACS (United States)



Speakers:

Mark G. Hamilton, MD (Canada)
 Vedantam Rajshekhar, MD (India)
 Ravi Ramamurthi, MD (India)

051 BRAIN TUMORS AND STEM CELLS: ONCOGENESIS AND THERAPY



Moderator:

Manfred Westphal, PhD, MD (Germany)

Speakers:

Francesco DiMeco, MD (Italy)
 Isabelle M. Germano, MD, FACS (United States)
 Florence F. Lefranc, MD, PhD (Belgium)

052 HYDROCEPHALUS IN CHILDREN: CHALLENGES, SHUNTS AND ALTERNATIVES



Moderator:

Abhaya Vivek Kulkarni, MD, FRCS (Canada)

Speaker:

Mohamed Achouri, MD (Morocco)
 Benicio Oton de Lima, MD (Brazil)
 M. Tayo Shokunbi, MD (Nigeria)

053 ADULT CRANIOPHARYNGIOMAS: STRATEGY FOR LONG TERM QUALITY OF LIFE



Moderator:

Andrew H. Kaye, MD (Australia)

Speakers:

Enrico De Divitiis, MD (Italy)
 Edward R. Laws Jr., MD (United States)
 Amro Ahmed Mancy, MD (Egypt)

054 CLIVAL CHORDOMAS AND CHONDROSARCOMAS: HOW DEEP SHOULD YOU GO?



Moderator:

Takeshi Kawase, MD (Japan)

Speakers:

Yutaka Mine, MD (Japan)
 Amir Samii, MD, PhD (Germany)
 Fotios Tzortzidis, MD (Greece)

055 THE UNRUPTURED INTRACRANIAL ANEURYSM: CLIP, COIL OR NEITHER?



Moderator:

Arthur L. Day, MD, FACS (United States)

Speakers:

Pedro Lylyk, MD (Argentina)
 Felix Hendrik Pahl, MD (Brazil)
 Hirotoshi Sano, MD (Japan)

056 CONDUCTING CLINICAL TRIALS

Moderator:

John Douglas Pickard, MD (United Kingdom)



Speakers:

Allan H. Friedman, MD, FACS (United States)
 Robert E. Harbaugh, MD, FACS (United States)
 Richard S.C. Kerr, MD (United Kingdom)

057 CERVICAL SPINE DEFORMITY



Moderator:

Richard P. Schlenk, MD (United States)

Speakers:

Haynes Louis Harkey III, MD (United States)
 Surachai Khaoroptham, MD (Thailand)
 Ioannis Polythodorakis, MD (Greece)

058 SYRINGOMYELIA



Moderator:

Remberto Burgos, MD (Colombia)

Speakers:

Ulrich Batzdorf, MD (United States)
 Ajit A. Krishnaney, MD (United States)
 Frank Van Calenbergh, MD (Belgium)

059 DECOMPRESSIVE CRANIOTOMY IN TRAUMATIC BRAIN INJURY: WHEN, HOW AND WHY?



Moderator:

Shelly D. Timmons, MD, PhD (United States)

Speakers:

Peter John Hutchinson, MD, FRCS (United Kingdom)
 Jonathan R. Jagid, MD (United States)
 Jeffrey V. Rosenfeld, MD (Australia)

Closing Ceremonies 1100 - 1200

*The XIV World Congress of Neurological Surgery of the
World Federation of Neurosurgical Societies gratefully acknowledges
the educational grant provided by*

TITANIUM LEVEL SPONSORS



Through their continued support and generosity
the Codman/DePuy Spine, Inc. Neurosurgeon Traveling Fellowship
was established to assist international residents and young neurosurgeons
attend the XIV World Congress.

**FOR DETAILS REGARDING THE
CODMAN/DEPUY SPINE, INC. NEUROSURGEON TRAVELING FELLOWSHIP
PLEASE SEE PAGE 30**

Be sure to visit the XIV World Congress exhibit hall

**Codman - Booth #2004
DePuy Spine, Inc. - Booth #2014**



Application Process for Codman/DePuy Spine Inc. Neurosurgeon Traveling Fellowship

For young neurosurgeons and neurosurgeons in training in developing countries

Would you like to be reimbursed for some of your expenses to attend the XIV World Congress of Neurological Surgery of the World Federation of Neurosurgical Societies? Codman and DePuy Spine Inc. are providing a traveling fellowship for 160 qualified young neurosurgeons in developing countries who register for the XIV World Congress meeting.

If you are interested in receiving a travel reimbursement of \$1,500 to support your meeting attendance, review the requirements below and see if you qualify.

Requirements

- 1) All applicants must be:
 - o A neurosurgeon or neurosurgeon in training.
Residents and surgeons in training must provide a letter from their program director or senior neurosurgeon.
 - o 40 years of age or less, as confirmed by their passports.
Applicants must submit a photocopy of the page of their passport that includes the citizenship and date of birth.
 - o In training or practicing in a developing country.
“Developing countries” are determined by the World Bank’s data and statistics of countries listed in their “low-income economies” or “lower-middle income economies” categories. Eligible countries are listed on page 31.
- 2) All applicants must have their applications submitted by February 2, 2009, by 2359 Central Standard Time (CST).

How to Apply

The American Association of Neurological Surgeons is hosting the XIV World Congress, and is accepting applications online. Visit www.MyAANS.org to make sure you are registered. If you need to register, follow the instructions provided.

- 1) Once registered, log in to www.myAANS.com with your username and password, and select “grants/scholarship applications” from the options on the left.
- 2) Select “Create new application” and choose Codman/DePuy Spine, Inc. Neurosurgeon Traveling Fellowship from the drop down box.
- 3) Complete the application and click on “submit.” Passport copies and program director letters should be emailed to Kathy Szott at kms@aans.org.

Don't delay in submitting your application for the Codman/DePuy Spine Inc. Neurosurgeon Traveling Fellowship by going to the XIV World Congress Web site at <http://www.aans.org/wfns2009>. The deadline for submitting an application is February 2, 2009, 2359 CST. Applicants will be notified of the status of their application no later than March 2, 2009. The XIV World Congress Web site also features information on obtaining visas, if needed.

If you are awarded one of these fellowships, you will receive \$1,500 US dollars at the XIV World Congress Meeting in Boston, MA. If you have any questions, please contact Kathi Szott at kms@aans.org.



Eligible Countries based on World Bank Categories

Afghanistan	Honduras	Pitcairn
Albania	India	Rwanda
Algeria	Indonesia	Samoa
Angola	Iran	Sao Tome and Principe
Armenia	Iraq	Senegal
Azerbaijan	Ivory Coast	Sierra Leone
Bangladesh	<i>see Cote d'Ivoire</i>	Solomon Islands
Benin	Jamaica	Somalia
Bhutan	Jordan	Sri Lanka
Bolivia	Kenya	St. Helena
Bosnia and Herzegovina	Kirghizstan	Sudan
Burkina Faso	Kiribati	Suriname
Burundi	Kosovo	Swaziland
Cambodia	Kyrgyzstan	Syria
Cameroon	Laos	Taiwan ROC
Cape Verde	Lesotho	Tajikistan
Central African Republic	Liberia	Tanzania
Chad	Macedonia	Thailand
Colombia	Madagascar	Timor-Leste
Comoros	Malawi	Togo
Congo, Democratic Republic of the (Zaire)	Maldives	Tonga
Congo, Republic of	Mali	Tunisia
Cook Islands	Marshall Islands	Turkmenistan
Cote d'Ivoire	Martinique	Turks & Caicos
Djibouti	Mauritania	Tuvalu
Dominican Republic	Micronesia	Uganda
Ecuador	Moldova	Ukraine
Egypt	Mongolia	Uzbekistan
El Salvador	Montserrat	Vanuatu
Eritrea	Morocco	Viet Nam
Ethiopia	Mozambique	West Bank and Gaza
Falkland Islands (Malvinas)	Myanmar (Burma)	Yemen
Fiji	Namibia	Zambia
Gambia	Nauru	Zimbabwe
Georgia	Nepal	
Ghana	Nicaragua	
Guadeloupe	Niger	
Guatemala	Nigeria	
Guinea	North Korea, Dem People's Rep	
Guinea - Bissau	Pakistan	
Guyana	Papua New Guinea	
Haiti	Paraguay	
	People's Rep of China	
	Peru	
	Philippine Islands	
	Philippines	



Young Neurosurgeons Award

The World Federation of Neurosurgical Societies invites all young neurosurgeons to submit original, unpublished work related to basic science or clinical work in neurosurgery for consideration of the Young Neurosurgeons Award. The conditions of the awards are as follows:

- The applicant should be applying within 10 years of having obtained his/her neurosurgical qualification. Students, interns and residents do not qualify for this award.
- The award consists of an honorarium of \$1,500.00 U.S. dollars, a certificate and a complete waiver of registration fees and lodging expenses at the XIV World Congress in Boston.
- The papers will be judged by an ad hoc committee nominated by the WFNS President, Dr. Jacques Brotchi.
- The applicant should submit via email a copy of the manuscript, not more than ten (10) double-spaced typewritten pages (exclusive of figures and tables) no later than February 28, 2009 to the Secretary of the WFNS, Dr. Richard Perrin, at richard.perrin@utoronto.ca.
- The submission should be accompanied by a supporting letter from the Head of the candidate's Neurosurgical Department.
- Five awards are available. The awards will be presented to the five awardees at the Opening Ceremony of the WFNS World Congress on Sunday evening, August 30, 2009, and the winners will have an opportunity to present their work during the Young Neurosurgeon's symposium during the meeting.

Attention WFNS Member Organization Officers:

Select a resident to receive

FREE REGISTRATION

to the XIV World Congress of Neurological Surgery of the WFNS

The American Association of Neurological Surgeons (AANS), as the host organization for the XIV World Congress, will fund the meeting registration fee for one resident selected from each member society of the World Federation of Neurosurgical Societies.

The AANS commitment covers this resident's registration at the AANS' expense, outside of the general budget of the meeting. The spirit of this offer is to help needy neurosurgical residents from around the world attend the XIV World Congress. Accordingly, we hope that you select a resident based not only on merit, but also on the basis of financial need. Unfortunately, we will not be able to cover any other expenses, such as airfare or lodging.

Please notify the AANS of your selection via email to ktc@aans.org, or the address listed below, at your earliest convenience, but **no later than May 1, 2009**.

American Association of Neurological Surgeons
c/o Kathleen Craig
5550 Meadowbrook Drive
Rolling Meadows, IL 60008-3152 USA
001 (847) 378-0500
ktc@aans.org

Social Functions

Sunday

OPENING CEREMONY AND RECEPTION AT SYMPHONY HALL 1800-2130

The Opening Ceremony and Reception will take place at Boston's Symphony Hall, regarded as one of the finest concert halls in the world. The evening will begin with the Opening Ceremony, presenting the Boston Pops, honoring several awardees and official speeches. The Reception will follow immediately at Symphony Hall offering a variety of delicious buffets representing the different regions of the United States.

Cost: Included in registration fee.



Monday

PRESIDENT'S DINNER AT THE HARVARD CLUB

By invitation only

Wednesday

CLAM BAKE AT KENNEDY LIBRARY & MUSEUM 1830-2130

Experience authentic Boston as you gather for this festive event experiencing one of this country's oldest traditions...the clam bake.

Just as the Kennedys hosted with warmth, hospitality and grace, join your fellow attendees for this festive event while reflecting back on the life of one of the world's beloved U.S. presidents. With panoramic views of Boston Harbor and the Boston skyline, share in the legacy that was JFK.

Cost: Included in registration fee.



Thursday

GALA DINNER AT BOSTON MARRIOTT COPLEY PLACE, GRAND BALLROOM COCKTAIL RECEPTION 1900 DINNER 2000

This multi-course dinner and spectacular entertainment will provide an unforgettable evening you will not want to miss.

Cost: \$100 per person.

This is a ticketed event that is separate from registration fees.



EXHIBITS OF PRODUCTS AND SERVICES

The technical exhibits hall at the XIV World Congress of Neurological Surgery accommodates physicians' hectic schedules by providing a convenient venue where they can visit displays of cutting-edge technology in the field of neurological surgery.

More than 90 companies, filling more than 400 booths, will showcase their products and services, several of them newly released, many tried and true and all valuable to the life of a neurosurgical practice. Booths will be conveniently located in John B. Hynes Veterans Memorial Convention Center.

An online interactive exhibiting tool is now available. This software provides real-time viewing of the exhibit floor and denotes locations of exhibiting partners. Busy neurosurgeons can pre-plan their valuable time by searching exhibitor locations by company name, booth number and product in advance. To view the interactive exhibit hall, visit <http://www.aans.org/wfns2009/exhibits.asp>. The live, interactive floor plan link is located in the center of the page.

Vendor participation in the exhibit hall provides attendees an opportunity to view, discuss and evaluate the most current tools and devices in the industry. Personnel are available at a moment's notice to answer questions, provide specifications and conduct demonstrations to address specific requirements.

Whatever your position in the industry, the XIV World Congress is an ideal place to bring your questions and concerns regarding equipment, tools, products or services!

EXHIBIT HOURS

Monday, August 31 0900 - 1630

Tuesday, September 1 0900 - 1630

Wednesday, September 2 0900 - 1630

Thursday, September 3 0900 - 1430

Beverage Breaks

Monday, August 31 thru 0950 - 1030
Thursday, September 3 and 1600 - 1630

Friday, September 4 0950 - 1030



List of Exhibitors

2013 WFNS World Congress in Seoul, Korea
2017 WFNS World Congress Bid in London, England
Acra-Cut, Inc.
Ad-Tech Medical Instrument Corporation
Aesculap AG
ALOKA Ultrasound
American Association of Neurological Surgeons
Anspach Companies
Aspen Medical Products
Biomet MicroFixation
BrainLAB
Carl Zeiss Meditec, Inc.
Codman, a Johnson & Johnson company
Congress of Neurological Surgeons
Cosman Medical
Covidien
DePuy Spine, a Johnson & Johnson company
Designs for Vision, Inc.
DS Hitech Inc.
Elekta
Elliquence, formerly Ellman Innovations
IMRIS
Integra LifeSciences
Invivo
Journal of Neurosurgery
Karl Storz GmbH & Co. KG
Keeler Instruments, Inc.
Kirwan Surgical Products, Inc.
Lanx, Inc.
Leica Microsystems
Life Instrument Corp.
Medicon Instrumente
Micrus Endovascular Corp.
Mizuho America, Inc.
Moeller Medical GmbH and Co. KG
NuVasive, Inc.
Ono & Co. Ltd.
OsteoMed
PMT Corporation
ProMed Instruments, Inc.
Scanlan International, Inc.
SeaSpine
Sonowand AS
Sontec Instruments
Sophysa
Söring GmbH
Stryker Spine
Sunoptic Technologies
SurgiTel/General Scientific Corporation
Synergetics, Inc. Synthes
Tecres Spa
Thieme Medical Publishers
ThinkFirst National Injury Prevention Foundation
TrueVision Systems
VertiFlex
Zimmer Spine

Exhibitors as of 12/26/08

Bold text denotes Commercial Supporters of the XIV World Congress of Neurological Surgery of the World Federation of Neurosurgical Societies.



XIV WORLD CONGRESS MEETING MISSION

This five day conference provides a forum that presents the latest in scientific work related to neurosurgery. More than 1,000 abstract presentations and lectures will be featured. Presentations will be made by leading neurosurgeons from around the world and will cover state-of-the-art concepts, recent advances and emerging trends in neurosurgery.

WFNS Learning Objectives

Upon completion of this educational activity, participants should be able to:

- Discuss current practice patterns with regards to the symptomatology, diagnosis, treatment methods and complication avoidance with respect to the entire spectrum of neurosurgical conditions and allied specialties in the clinical and basic neurosciences.
- Discuss real clinical cases and specific treatment methods that are justified and explained by recognized world leaders in the field.
- Describe the most recent and future trends in neurosurgery around the world.
- Discuss effective program innovations and models from experts around the world.

Continuing Medical Education

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 World Federation of Neurosurgical Societies. The AANS is accredited by the ACCME to provide continuing medical education for physicians.

The AANS designates this educational activity for a maximum of 46.5 *AMA PRA Category 1 Credit(s)*[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

CME Credit for Breakfast Sessions

Attendees will receive a maximum of 1.5 *AMA PRA Category 1 Credits*[™] for each breakfast session they attend. Physicians should only claim credit commensurate with the extent of their participation in the activity.

CME Credit for Practical Courses

Attendees will receive a maximum of 4 *AMA PRA Category 1 Credits*[™] for all eligible half-day courses and 8 *AMA PRA Category 1 Credits*[™] for all eligible full-day courses. Physicians should only claim credit commensurate with the extent of their participation in the activity. Practical course fees vary, so please check the specific course listing.

CME Credit for Posters

Physicians may claim *AMA PRA Category 1 Credit*[™] directly from the AMA for preparing a poster presentation, which is also included in the published abstracts. To obtain credit from the AMA for this, physicians can either claim them on their *AMA PRA* certificate application or apply directly to the AMA for an *AMA PRA Category 1 Credit* certificate.

Physicians may claim *AMA PRA Category 2 Credits*[™] for viewing scientific posters. Physicians should self claim credit to the AMA on their *AMA PRA* certificate application form.

Continuing Education for Allied Health Professionals

Included with the registration fee for neuroscience nurses, nurse practitioners and physician assistants is your choice of over 420 hours of educational programming (some of which will be eligible for nursing contact hours and all of which is eligible for CME) including topic sessions, plenary sessions, luncheon sessions, interactive sessions, oral abstract sessions and video sessions. For an additional fee, there is access to practical courses and breakfast sessions.

Additionally, two special three-hour programs are being designed just for neuroscience nurses, nurse practitioners and physician assistants on Tuesday, September 1, 2009 and Wednesday, September 2, 2009, from 1430 to 1730.

For physician assistants, the American Academy of Physician Assistants (AAPA) accepts certificates of participation for educational activities certified for AMA PRA Category 1 Credit.

For nurses, an application for approval of nursing contact hours on selected courses has been submitted to the Illinois Nurses Association Approver Unit. Please call AANS for more information about the contact hours or visit www.AANS.org/wfns2009 for up-to-date information.

Claim CME Credit the Easy Way

Congress attendees will self-report CME credit for the programs they attend by going online to MyAANS.org from any computer with internet service. Please have your MyAANS.org user name [email address] and password handy during and after the meeting for convenient completion and submission.

Do not self-report CME credit for optional events such as breakfast sessions and practical courses. By turning in your tickets on site, credit will automatically be added to your record in MyAANS.org. Please contact AANS if you are not in attendance for the full breakfast session or practical course so that your credit can be adjusted accordingly.

Disclosures

ACCME's Updated Standards for Commercial Support requires that anyone in a position to control the content of the education activity has disclosed all financial relationships with any commercial interest. Failure or refusal to disclose or the inability to satisfactorily resolve the identified conflict may result in the withdrawal of the invitation to participate in any education activities. The ACCME defines a commercial interest as any entity producing, marketing, re-selling, or distributing health care goods or services consumed by, or used on, patients. Disclosures will be published in the WFNS Program Guide and Scientific Program CD, which will be distributed to all registrants at the meeting.

Disclaimer

The material presented at the XIV World Congress of Neurological Surgery has been made available by the WFNS and AANS for educational purposes only. The material is not intended to represent the only, nor necessarily the best, method or procedure appropriate for the medical situations discussed, but rather it is intended to present an approach, view, statement, or opinion of the faculty, which may be helpful to others who face similar situations. Neither the content (whether written or oral) of any course, seminar or other presentation in the program, nor the use of a specific product in conjunction therewith, nor the exhibition of any materials by any parties coincident with the program, should be construed as indicating endorsement or approval of the views presented, the products used, or the material exhibited by the WFNS and AANS, or by its committees, commissions, or affiliates. The WFNS and AANS disclaim any and all liability for injury or damages resulting to any individual attending the Congress, and for all claims which may arise out of the use of the techniques demonstrated therein by such individuals, whether these claims shall be asserted by physicians or any other person. There may be, on occasion, changes in faculty and program content.

Visitor Facts & General Information

With a mix of colonial charm and urban sophistication, Boston is a great place to visit and a city made for meetings. It is a city rich in history, academic excellence and diversity. Known as "America's Walking City," it is easy to see the many sights Boston has to offer.

People come to Boston because of its major role in creating the America of today. Boston's most famous attraction, The Freedom Trail, takes visitors on a historical journey through the American Revolution, highlighting 16 historical figures and events of America's fight for independence.

Boston is also a city rich in arts and entertainment, fine dining and great shopping. Shop on upscale Newbury Street, the Prudential Center, Copley Place or go to trendy Back Bay for smaller galleries and boutiques. Eat at many restaurants featuring cuisine from around the world. Take in a play or a concert at one of the many theatres or explore the many bars and clubs Boston has to offer.

Getting to the city is easy and convenient. Logan International Airport is served by more than 50 airlines and it is two miles outside the city center. There are plenty of ways to get around the city, including public transportation, taxi cabs, walking or buses.

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.

Language

The official language of the XIV World Congress is English. However interpreters will be available at the Information Desk to answer conference questions in French and Spanish.

Accessibility

The Hynes Convention Center is committed to accommodating the needs of individuals with disabilities in accordance with the Americans with Disabilities Act. There are many elevators around the Hynes Convention Center. There is designated parking and services for the sight and hearing impaired. Wheelchairs and scooters are available for a fee and can be reserved prior to your arrival by contacting Belmont Medical at 001-617-484-3888 or visit their Web site at www.belmontmedical.com. Daily and weekly rates are available and include delivery and pickup to and from your hotel or from the Hynes Convention Center.

Religious Services

For those interested in attending a religious service, listed below are area churches, synagogues and mosques. For more information for an individual service, please call the phone number listed.

Baptist

First Baptist Church of Boston
110 Commonwealth Avenue
Boston, MA 02116
617-267-3148

Tremont Temple Baptist Church
88 Tremont Street
Boston, MA 02108
617-523-7320

New Hope Baptist Church
740 Tremont Street
Boston, MA 02116
617-536-9332

Twelfth Baptist Church
160 Warren Street
Roxbury, MA 02119
617-442-7855

Concord Baptist Church
190 Warren Avenue
Boston, MA 02116
617-266-8062

People's Baptist Church
830 Tremont Street
Roxbury, MA 02118
617-427-4551

Catholic

St. Anthony's Shrine
100 Arch Street
Boston, MA 02107
617-542-6440

Holy Cross Cathedral
1400 Washington Street
Boston, MA 02111
617-542-5682

Mission Church
1545 Tremont Street
Boston, MA 02110
617-266-2635



Paulist Center & Chapel
5 Park Street
Boston, MA 02108
617-742-4460

St. Ann's Church
68 St. Stephen Street
Boston, MA 02115
617-266-2635

St. Francis Chapel
800 Boylston Street, #21
Boston, MA 02199
617-437-7117

St. Brendan's Catholic Church
15 Rita Road
Dorchester, MA 02124
617-436-0310

St. Cecilia's
30 St. Ceciliast Street
Boston, MA 02115
617-536-4548

Congregational
Old South Church
645 Boylston Street
Boston, MA 02116
617-536-1970

Park Street Church
One Park Street
Boston, MA 02108
617-523-3383

Episcopal
Cathedral Church of St. Paul
138 Tremont Street
Boston, MA 02111
617-482-5800

Trinity Church
Copley Square
Boston, MA 02116
617-536-0944

The Church of Advent
30 Brimmer Street
Boston, MA 02108
617-523-2377

Emmanuel Church of Boston
15 Newbury Street
Boston, MA 02116
617-536-3355

Eastern Orthodox
Boston Orthodox Cathedral
Of Boston and New England
514 Parker Street
Boston, MA 02120
617-427-4500

Holy Trinity Orthodox Cathedral
165 Park Drive
Boston, MA 02120
617-262-9490

Jewish
Jewish Religious Information
Service
177 Tremont Street
Boston, MA 02108
617-426-2139

Temple Israel
260 Riverway Park
Entrance on Plymouth Street
Boston, MA 02215
617-566-3960

Charles River Park Synagogue
55 Martha Road
Boston, MA 02114
617-523-0453

Zyhiller Beis Medrash
15 School Street
Boston, MA 02108
617-227-8200

Lutheran
299 Berkeley Street
Boston, MA 02116
617-536-8851

Resurrection Lutheran Church
94 Warren Street
Roxbury, MA 02119
617-427-2066

Methodist
Charles Street AME Church
551 Warren Street
Roxbury, MA 02119
617-427-1298

Old West Church-Government
Center
131 Cambridge Street
Boston, MA 02114
617-227-5088

Columbus Avenue AME Zion
Church
600 Columbus Avenue
Boston, MA 02118
617-266-2758

Greenwood Memorial United
Methodist Church
378A Washington Street
Dorchester, MA 02124
617-288-8410

Union United Methodist Church
485 Columbus Avenue
Boston, MA 02118
617-536-0872

Non-Denominational
Grace Church of All Nations
451 Washington Street
Dorchester, MA 02124
617-825-6757

Jubilee Christian Church
1500 Blue Hill Avenue
Mattapan, MA 02126
617-296-5683

Pentecostal
Greater Love Tabernacle Church
101 Nightingale Street
Dorchester, MA 02124
617-740-9480

Holy Tabernacle Church
70 Washington Street
Dorchester, MA 02124
617-740-9480

Presbyterian

Church of Covenant
67 Newbury Street
Boston, MA 02116
617-266-7480

New Covenant Presbyterian Church
88 Tremont Street
Boston, MA 02108
617-725-3344

Unitarian Universalist

Arlington Street Church
351 Boylston Street
Boston, MA 02116
617-536-7050

First & Second Church
66 Marlboro Street
Boston, MA 02116
617-267-6730

Additional Religious Facilities

Berea Seventh Day Adventist Church
108 Seaver Street
Dorchester, MA 02121
617-427-2201

Islamic Society of Boston
204 Prospect Street
Cambridge, MA
617-864-0761
www.isboston.org

Islamic Society of Boston Cultural Center
Tremont Street and Malcolm X Blvd.
Roxbury, MA
617-876-3546
www.isbcc.org

Morning Star Baptist Church
1257 Blue Hill Avenue
Boston, MA 02126
617-298-0278

St. Paul AME Church (Cambridge)
85 Bishop Richard Allen Drive
Cambridge, MA 02139
617-661-0837

International Travel Information

Letter of Invitation for Visa Applications

Individuals requiring an official letter of invitation in order to obtain a visa and authorization to attend the World Congress will find it in the back of this publication. Attendees may also visit the Web site at www.AANS.org/wfns2009. The letter of invitation does not financially obligate the World Congress organizers in any way. All expenses incurred in relation to the Congress are the sole responsibility of the attendee.

Visitors/Non-Immigrants—Traveling to Boston

Many citizens from other countries are required to obtain a visa to enter the United States. For the most up-to-date information and step-by-step guide visit: www.unitedstatesvisas.gov/obtainingvisa/index.html.

- **Apply early for your visa.** It is recommended that you apply for a visa six to nine months prior to the meeting.
- **Yes I need a visa. How do I apply?** Visit www.travel.state.gov/visa.
- **What is the status of my visa application of more than 20 days after interview date?** Visit www7.nationalacademies.org/visas and select questionnaire button.

Visa Waiver Program (http://travel.state.gov/visa/temp/without/without_1990.html)

All Visa Waiver Program travelers, regardless of age or type of passport used, must present machine-readable passports. In addition, depending when Visa Waiver Program travelers' passports were issued, other passport requirements will apply:

- Machine-readable passports issued before 10/25/05 – no further requirements
- Machine-readable passports issued between 10/26/05 and 10/25/06 – requires digital photograph printed on the data page or integrated chip with information from the data page
- Machine-readable passports issued on or after 10/26/06 – requires integrated chip with information from the data page (e-passport).

Tips for Successful Visa Applications. Visa applicants are expected to provide evidence that they are intending to return to their country of residence. Therefore, applicants should provide proof of “binding” or sufficient ties to their home country or permanent residence abroad.

This may include documentation of the following:

- Family ties in home country or country of legal permanent residence
- Property ownership
- Bank accounts
- Employment contract or statement from employer stating that the position will continue when the employee returns

Visa applications are more likely to be successful if done in a visitor's home country rather than in a third country.

- Applicants should present their entire trip itinerary, including travel to any countries other than the United States, at the time of their visa application.
- Include a letter of invitation from the meeting organizer or the U.S. host, specifying the subject, location and dates of the activity. A letter is included on page 58.
- Provide specifics on how travel and local expenses will be covered.
- If travel plans will depend on early approval of the visa application, specify this at the time of the application.
- Provide proof of professional scientific and/or educational status (students should provide a university transcript).

Currency

There are currency exchanges in Boston. Most banks exchange currency as well as travel centers. It is best to have U.S. currency or traveler's checks. ATMs are readily available throughout Boston.

Credit Cards/Travelers Checks

Most businesses accept most credit cards and U.S. dollar traveler's checks. There are limited places that *only* accept cash. Have the proper identification with you before cashing traveler's checks.

No Smoking Policy

Smoking is not permitted at any official WFNS event. In addition, no smoking is permitted at the Hynes Convention Center.



At the WFNS Congress in Marrakech, I was able to meet up with so many former fellows who had trained at my institution from countries such as Israel, Japan, Turkey, Brazil, Korea, England, Italy, and France. It was a wonderful opportunity to catch up with them and their practices of neurosurgery, and to learn more about neurosurgery in their countries. It was particularly enjoyable to spend time with them at one of the many social functions in Marrakech.

Boston is a great, historic city in which to celebrate the WFNS Congress.

There is so much to do there aside from the stellar scientific programming and varied social events. The meeting will bring together neurosurgeons from all over the globe. It is a great chance for neurosurgeons, irrespective of their countries of origin, to present work from their institutions to a diverse audience. And it is a great venue for North American neurosurgeons to discover the status of neurosurgery in other continents and countries around the world. We share so many similar circumstances and have so much to learn from each other.

James T. Rutka, MD, PhD, FRCS, Canada



Tour Program

SUNDAY, AUGUST 30 OR TUESDAY,
SEPTEMBER 1 / 0900 - 1700

The Gilded Age Newport Mansions Tour

Cost: \$150.00 per person

Experience the grandiose Newport "cottages" built at the apex of the Gilded Ages spurred by the Industrial Revolution. Home to spectacular coastal scenery, awe-inspiring architecture, a thriving waterfront downtown and welcoming hospitality, Newport, Rhode Island is considered by many to be a shining gem in the coastal crown of New England.

The grandest of Newport Mansions, the Breakers, is your first stop. Railroad industrialist Commodore Cornelius Vanderbilt built this estate as a symbol of the family's social and financial preeminence. All 70 rooms covering 138,000 square-feet abound with Robert Morris Hunt's architecture and furnishings inspired by the 16th century Italian Renaissance palazzos. To this day, the Breakers remain one of the most extravagant indications of the Vanderbilt family's fortune.

Afterwards, relax with lunch at The Mooring Seafood Kitchen and Bar located on the waterfront at Sayer's Wharf, directly off America's Cup Avenue in downtown Newport. The meal will include a cup of New England Clam Chowder, choice of Entrée, Dessert and Beverage. One of the waterfront's finest restaurants, The Mooring is the perfect location for a break during this enchanting day.

As the restaurant is within easy walking distance from many of the local shops and attractions, guests will have about an hour to peruse the various boutiques along the waters edge.

Your final visit will be the magnificent Marble House. The Marble House was built between 1888 and 1892 for Mr. and Mrs. William K. Vanderbilt, a summer house, or "cottage," as Newporters called them in remembrance of the modest houses of the early 19th century. However Marble House was much more; it was a social and architectural landmark that set the

pace for Newport's subsequent transformation from a quiet summer colony of wooden houses to the legendary resort of opulent stone.

This Tour Includes:

- Round trip transportation via deluxe mini coach or motor coach
- Guided Tour of Two Newport Mansions
- Catered lunch at The Mooring
- Alcoholic beverages are not included
- Uniformed Conventures, Inc. guide
- All applicable taxes and gratuities

SUNDAY, AUGUST 30 / 0945 - 1400
WEDNESDAY, SEPTEMBER 2 / 0900 - 1330
FRIDAY, SEPTEMBER 4 / 0900 - 1330

Whale Watching Excursion

Cost: \$95.00 per person

Venture out on the water for an exiting day of Humpback whale watching!

Cruise out to sea on a comfortable high-speed catamaran that will provide you with more viewing time and less travel time. You will travel aboard a pristine vessel complete with climate controlled cabins, three viewing decks, restrooms and a full service snack bar.

You will find Humpback whales are an amazing species to watch. 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. Humpbacks are also known for their "singing" that can put Pavarotti to shame.

On board you will enjoy a professional researcher from the Whale Center of New England to narrate your tour.

This Tour Includes:

- Round trip transportation via deluxe motor coach
- Whale watching excursion
- Uniformed Conventures, Inc. guide
- All applicable taxes and gratuities

SUNDAY, AUGUST 30 / 0900 - 1330

Neighborhoods of Boston

Cost: \$42.00 per person

Boston is a city rich in American history, neighborhoods and education. To many, Boston is known as “Beantown” where we “pahk the caah”. It is our nation's oldest major city with world famous medical centers, industry and finance at our fingertips endless faith in the beloved Red Sox. A city of seasons makes the snow-covered rooftops of Beacon Hill or the flower-filled public gardens something to see for any season.

Begin your trip with the Back Bay, an area rich in Victorian architecture as well as modern marvels such as the Prudential Center and Hancock tower. Drive by the Boston Public Library, the Trinity Church, the Boston Common and the Public gardens on the way to Beacon Hill.

Beacon Hill impresses locals and tourists alike with its charming streets, brick sidewalks lined with antique gas lamps, hidden houses, unique doors, doorknockers, and detailed iron balconies. This 19th century neighborhood is rich in history, elegant architecture and Victorian homes.

From Beacon Hill to the Freedom Trail, see King's Chapel and Burying Ground, Granary Burying Ground, the Old Corner Bookstore, the Old South Meeting House, the Old State House, the site of the Boston Massacre and Faneuil Hall. Find out why Boston is so rich in history.

From Faneuil Hall, Quincy Market and the statue of Samuel Adams move to Boston's North End. The area today is largely populated by those of Italian decent, whose many cafes, delis and restaurants make it one of the city's most distinct communities! Hanover and Salem Street are the main arteries of the area with the Old North Church at the top of Salem Street. Built in 1723, this is Boston's oldest religious building and famous for the part it played in Paul Revere's midnight ride. Just south is North Square, site of the Paul Revere House. From the North End look across the harbor and view “Old Ironsides,” the USS Constitution, and the Bunker Hill Monument, which is the last stop along the Freedom Trail.



This Tour Includes:

- o Round trip motor coach transportation
- o Uniformed Conventures, Inc. Guide
- o All applicable taxes and gratuities

This tour does involve a lot of walking and guests are advised to wear comfortable footwear and clothing.

MONDAY, AUGUST 31 / 0900 - 1300

Adams National Historic Park

Cost: \$56.00 per person

Your tour today takes you to the Adams National Historical Park which tells the story of four generations of the Adams family from 1720 to 1927.

The park is home to the Birthplaces of the 2nd U.S. President John Adams and the 6th U.S. President John Quincy Adams and Peacefield including the “Old House,” the home to four generations of the Adams family.

The Old House, built in 1731, became the residence of the Adams family for four generations from 1788 to 1927. It was home to President John Adams and John Quincy Adams; First Ladies Abigail and Louisa Catherine Adams. Utilized by both as their summer Whitehouse, the home contains some fine original furniture and art.

Enjoy the warmth and charm of this historical birthplace of two U.S. Presidents!

This Tour Includes:

- o Round trip transportation via deluxe mini coach or motor coach
- o Entrance and tour of the Adams National Historical Park
- o Uniformed Conventures, Inc. guide
- o All applicable taxes and gratuities

This tour does involve walking and guests are advised to wear comfortable footwear and clothing.

Tour Program

MONDAY, AUGUST 31 / 1300 - 1600

Newbury Street Gallery Tour & Shopping

Cost: \$50.00 per person

Anyone that likes Art and Shopping will enjoy a stroll down this urban street, which features eight blocks of upscale boutiques, shops, art galleries, cafes and restaurants. Historic buildings house a wide variety of galleries which include Art, Sculpture, Impressionists, Paintings, Photography, Prints, and Fine American 18th, 19th and 20th Century paintings. Enjoy a visit into 2 of these fine showrooms and meet the owners. Hear the stories of how they became Gallery Owners, their favorite artists and an inside look at the current collections hung on their gallery walls.

Afterwards, take a walk with your guide to do some shopping. She can point the way to whatever you're seeing on this fabulous day on Newbury Street!

As an added bonus, our host from the Newbury Street league has a goodie bag from some of the Merchants which may offer some wonderful discounts!

This Tour Includes:

- o Walking guided tour along Newbury Street
- o Gallery tours
- o Uniformed Conventures, Inc. Guide
- o All applicable taxes and gratuities

MONDAY, AUGUST 31 OR THURSDAY,
SEPTEMBER 3 / 1300 - 1600

Freedom Trail & Trolley Tour, North End

Cost: \$59.00 per person

Sit back and expert conductors will show you the best of Boston aboard the Old Town Trolley Tour!

Join them as they turn back the pages of history and relive the bustling seaport days of colonial Boston. Feel the drama of revolution in America!

Boston is the home to more sites that are directly related to the American Revolution than any other city. The most important of these sites have been linked together to create the Freedom Trail. This 2.5 mile walking route that is marked in red on the sidewalks and travels from Boston Common, where angry Colonists rallied against their British masters, to the Bunker Hill in Charlestown.

You will travel through the central part of the city where you will see the Street Church which dates back to 1810 and the adjacent Granery Burying Ground which is the final resting place of some of the patriots such as John Hancock and Paul Revere. Further along you will come to Kings Chapel that was the principle Anglican Church in Puritan Boston.

From there, you will travel into the heart of the city and see The Old South Meeting House which, as one of Boston's largest meeting halls during the revolution, heard many fiery speeches urging revolt against the British. Further along you will come upon the Old State House and the site of the Boston massacre. Guests will visit Faneuil Hall, known as the "Cradle of Liberty" for the historic speeches made in it's meeting hall.

Into the North End, you'll visit Paul Revere's home which is downtown Boston's oldest building and one of the few remaining from an early era in the history of colonial America. From there, you will go to the Old North Church, built in 1723, which is Boston's oldest church building. Two warning lanterns hung in the church steeple on April 15, 1775. Henry Wadsworth Longfellow's poem, The Midnight Ride of Paul Revere, published during the Civil War, made both Revere and Old North Church internationally known icons of freedom.

Over the bridge and into Charlestown, you'll see the USS Constitution, better known as "Old Ironsides" named for the resilience of her live oak hull against cannon fire. From there you will travel to the conclusion of the freedom trail at the Bunker Hill Monument where a monument stands to commemorate the battle of June 17, 1775, the first large scale battle of the revolution.

This Tour Includes:

- o Guided tour along the Freedom Trail
- o Trolley tour and conductor
- o Uniformed Conventures, Inc. Guide
- o All applicable taxes and gratuities

This tour does involve lots of walking and guests are advised to wear comfortable footwear and clothing.





TUESDAY, SEPTEMBER 1 / 0900 - 1300
WEDNESDAY, SEPTEMBER 2 / 1300 - 1700
OR THURSDAY SEPTEMBER 3 / 0900 - 1300

Duck and Museum of Science Tour

Cost: \$117.00 per person

Journey off into Boston like you never have before! The fun begins as soon as you board your "DUCK", and authentic, renovated World War II amphibious landing vehicle. Cruise by all the places that make Boston the birthplace of Freedom and a City of Firsts! See the golden-domed State House, Bunker Hill, TD Banknorth Garden, Boston Common, Copley Square, Government Center, fashionable Newbury Street, Quincy Market, the Prudential Tower, and more! The best of Boston will unfold before your eyes. Your Conducktor will give you lost of little known facts and interesting insights into what make Boston the best city in America.

After your duck tour you will be dropped off at the Museum of Science. Indulge your scientific curiosity with over 550 interactive exhibits, live animal shows, science demonstrations, ever-changing exhibits, the breathtaking Theater of Electricity and more. Science comes alive at Boston's Museum of Science!

As you touch these amazing interactive exhibits, you will expand your knowledge of astronomy, astrophysics, anthropology, progress in medicine computers, the organic and inorganic earth sciences, and more. You will get to touch a lizard or watch a chicken hatch!

Explore the Butterfly Garden and surround yourself with a rich assortment of free flying butterflies and flowering plants. Visit the Planetarium for a departure to outer space or take in one of the various shows at the Omni Theater of electricity that contains one of the world's largest Van de Graaff generators, designed by Dr. Robert J. Van de Graaff himself donated by MIT in 1956. The Current Science & Technology

Centers keep up with the cutting edge of science and technology developments.

The Museum of Science is truly an amazing adventure through the wonders of science and technology.

This Tour Includes:

- o One-way transportation via motor coach
- o The Famous Boston Duck Tour with pick up from the convention center
- o Admission to the Museum of Science
- o Uniformed Conventures, Inc. guide
- o All applicable taxes and gratuities

TUESDAY, SEPTEMBER 1 / 1400 - 1700

Museum of Fine Arts

Cost: \$95.00 per person

Calling all art connoisseurs and beginners alike, we invite you to bring a keen eye as you experience the mastery of the Museum of Fine Arts.

Join us on a guided tour of the museums many exhibits. This two hour long tour will take you from the ancient relics of the Roman Empire and Greece to contemporary masterpieces by Andy Warhol and Cindy Sherman. Next, explore the special featured exhibit that will be sure to spark your interest. No precious knowledge required, as you travel through time and around the world to observe these stunning pieces.

This Tour Includes:

- o Round trip transportation via deluxe motor coach
- o Guided MFA docent tour
- o Entry into special exhibit
- o Uniformed Conventures, Inc. guide
- o All applicable taxes and gratuities



Tour Program

TUESDAY, SEPTEMBER 1 / 1700 - 1900

Boat Dinner Cruise

Cost: \$95.00 per person

Rich in maritime heritage, Boston's waterways provide the perfect backdrop for Harbor Cruise.

Your fully narrated tour of Boston's inner and outer harbor offers a fun and informative look at its many historic and contemporary landmarks. You will learn about the past, present and future of this historic harbor including tales of famous revolutionary battles, the history of Boston as a working industrial port as well as the high price of waterfront living.

You will see the Nation's oldest continuously manned lighthouse, the island of the outer harbor, Old North Church, The Bunker Hill Monument and perhaps the most treasured of all Boston's landmarks, the USS Constitution. Get up close and personal with "Old Ironsides" at her home in the Charlestown Navy Yard.

Your vessel offers a unique setting with distinctive teakwood interiors, handsome carpeting and antique brass fixtures. The talented culinary team will provide some stationary Cheese and Crudite displays and a cash bar.

Cruise and experience the relaxing and fun atmosphere on the water surrounding Boston!

This Tour Includes:

- o Two Hour Cruise with Narrated Tour of Boston Harbor
- o Estimated Cheese and Crudité Stations
- o Cash Bar
- o Uniformed Conventures, Inc. guide
- o All applicable taxes and gratuities

WEDNESDAY, SEPTEMBER 2 / 1000 - 1300

Beacon Hill

Cost: \$95.00 per person

Beacon Hill, a neighborhood of Federal-style rowhouses, gas-lit streets and beautiful brick sidewalks, is one of the most desirable and expensive neighborhoods in the country. Visit elegant townhouses, sophisticated city apartments and wonderful hidden gardens in this home tour of Beacon Hill. The homes reveal the personal style of each owner and many have been restored to the 18th - 19th century roots with furnishings and fabrics indicative of the period.

Guides from the Beacon Hill Circle for Charity escort you on personal tours of 2 to 3 private homes that have been made available to their organization. The Beacon Hill Circle donates proceeds to recognized charities that support women and children in the City of Boston.

After viewing these private homes the tour guide will provide a walking tour including Beacon House and Boston Common. Find out how it got the name Beacon Hill and who once owned it.

The tour will end with sometime to shop in this historical area. Charles Street runs along the base of Beacon Hill and has businesses, markets, shops, antiques and quaint little restaurants.

This Tour Includes:

- o Round trip transportation via deluxe mini coach or motor coach
- o Guided Beacon Hill House tour
- o Uniformed Conventures, Inc. guide
- o All applicable taxes and gratuities

WEDNESDAY, SEPTEMBER 2 / 1300 - 1700

Isabella Stewart Gardner Museum & Skywalk Observatory

Cost: \$83.00 per person

The Isabella Stewart Gardner Museum is an intimate collection fine and decorative art and a vibrant, innovative venue for contemporary artists, musicians and scholars. Housed in a stunning 15th-century Venetian-style palace with three stories of galleries surround a sun and flower-

filled courtyard, the Museum provides an unusual backdrop for the viewing of art.

Isabella Stewart Gardner was one of the foremost female patrons of the arts. She was a patron and friend of leading artists and writers of her time, including John Singer Sargent, James McNeil Whistler and Henry James. Isabella Stewart Gardner was also the visionary creator of what remains one of the most remarkable and intimate collections of art in the world today and a dynamic supporter of artists of her time, encouraging music, literature, dance and creative thinking across artistic disciplines.

The Isabella Stewart Gardner Museum's preeminent collection contains more than 2,500 paintings, sculptures, tapestries, furniture, manuscripts, rare books and decorative arts.

The spirit of the architecture, the personal character of the arrangements and the artistic display of the enchanting courtyard in full bloom all create an atmosphere that distinguishes the Isabella Stewart Gardner Museum as an intimate and culturally-rich treasure.

After the beautiful Isabella Stewart Gardner Museum guests will be taken to the Prudential Center and Skywalk. The Skywalk is the only 360-degree serial observatory in Boston and at its location near the top of Boylston Street Hill provides striking views of downtown and the Waterfront. Upon entering, guests will see the east side of the city including the John Hancock Tower. Views of the Boston Common, the Public Garden, Fenway Park and the JFK Library are some of the sights that will be the backdrop for your event. The Skywalk also offers informative and interactive exhibits that educate on Boston's famous Historical Landmarks, Artists and Athletes.

This Tour Includes:

- o Round trip transportation via deluxe mini coach or motor coach
- o Guided tour of Gardner Museum
- o Admission to the Skywalk Observatory
- o Uniformed Conventures, Inc. guide
- o All applicable taxes and gratuities



WEDNESDAY, SEPTEMBER 2 / 1000 - 1400

Fenway Park & Faneuil Hall

Cost: \$70.00 per person

Visit America's most beloved ballpark, Fenway Park, where the Boston Red Sox, 2004 and 2007 World Series Baseball Champions play ball!

Though generations have come and gone, Fenway Park remains, much like it did the day it opened on April 20, 1912. The home of the Red Sox resounds with echoes of the past from some of the great players like CY Young, Babe Ruth, Ted Williams, Carlton Fisk and Carl Yastrzemski to name a few.

This is the park where the Babe pitched, The Kid hit, Yaz dazzled and Ortiz still thrill young fans today. Soak up the rich history; hear the echoes of the past. Visit the Green Monster, imagine being one of the "Knights of the Keyboard" as you see the view from the Press Box, visit the State Street Pavilion Club before strolling around Fenway Park.

With the stories of all these legends that have played there for more than eight decades, Fenway remains an important link to Baseball's past.

After the tour, enjoy a walk around the most popular tour attraction in Boston, Faneuil Hall and Quincy Market. For over 250 years, this marketplace has played an important role in life of Boston's residents. The marketplace has more than 100 wonderful shops and carts and 17 restaurants and pubs including Cheers!

This Tour Includes:

- o Round trip transportation via deluxe mini or motor coach
- o Entrance and tour of Fenway Park
- o Tour of Faneuil Hall and free time
- o Uniformed Conventures, Inc. guide
- o All applicable taxes and gratuities

This tour does involve walking and guests are advised to wear comfortable footwear and clothing.

Tour Schedule |||

TIME/DAY	SUNDAY August 30	MONDAY August 31
0900 - 1700	Newport Mansion Tour	
0900 - 1300	Neighborhoods of Boston	Adams National Historic Park
0945 - 1400	Whale Watching	
1000 - 1300		
1000 - 1400		
1300 - 1600		Newbury Street Gallery Tour & Shopping Freedom Trail & Trolley Tour
1300 - 1700		
1400 - 1700		
1600 - 1700		
1700 - 1900		



TUESDAY
September 1

Newport
Mansion Tour

Duck and Museum
of Science Tour

Museum of Fine Arts

Boat Dinner Cruise

WEDNESDAY
September 2

Whale Watching

Beacon Hill

Fenway Park &
Faneuil Hall

Isabella Stewart
Gardner Museum &
Skywalk Observatory

Duck and Museum
of Science Tour

THURSDAY
September 3

Duck and Museum
of Science Tour

Freedom Trail
& Trolley Tour

FRIDAY
September 4

Whale Watching

HEADQUARTERS HOTEL

Sheraton Boston Hotel

39 Dalton Street
Boston, MA 02199
Phone: (617) 236-2000
www.starwoodhotels.com

Room rate: \$218 single; \$238 double

Nestled in the heart of historic Back Bay, the Sheraton Boston is the ideal hotel to explore all the city has to offer. Each guest room features the new Sheraton Sweet Sleeper™ bed, high-speed Internet access and ergonomic desk chairs and a newly updated safe lock card key system. The hotel offers an indoor connection to the Hynes Convention Center, Prudential Center and Copley Place Mall with over 200 shops to choose from. Unwind at the end of a long day at the hotel's Sidebar & Grille, the perfect place to grab your favorite cocktail.

OTHER OFFICIAL HOTELS

Boston Marriott Copley Place

110 Huntington Avenue
Boston, MA 02116
Phone: (617) 236-5800
www.marriott.com

Room rate: \$241 single/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, Starbuck's and 24 hour room service. This hotel offers numerous amenities such as valet parking, gift shop, car rental desk and tour desk.

NOTE: U.S. Country Code is 001



Westin Copley Place Hotel

10 Huntington Avenue
Boston, MA 02116
Phone: (617) 262-9600
www.starwoodshotels.com

Room rate: \$234 single; \$254 double

Winner of the AAA Four Diamond Award® in the heart of trendy Back Bay, The Westin Copley Place Hotel is linked to the Hynes Convention Center via skybridge and is only a stroll away from shopping at the area's boutiques and retail centers. All guest rooms feature the Heavenly® Bed with its plush mattress topper, high-speed Internet, 100% smoke free rooms and the marble Heavenly Bath® with dual showerheads. Stop by Bar 10 for some lighter fare food or Osushi for some of Boston's freshest fish.

Boston Park Plaza Hotel & Towers

64 Arlington Street
Boston, MA 02116
Phone: (617) 426-2000
www.bostonparkplaza.com

Room rate: \$201 single; \$221 double

With its pristine elegance and accommodating staff, The Boston Park Plaza Hotel & Towers ensures it will provide guests with an extraordinary experience. Guest room amenities include: high-speed Internet access, cordless telephones, state-of-the-art climate control system, health club, 24-hour room service, business center, voice mail, full service concierge and interactive video on demand. Enjoy first class restaurants such as Todd English's Bonfire Steakhouse, McCormick and Schmick's Seafood Restaurant and Rande Gerber's Whiskey Park. The

Boston Park Plaza Hotel & Towers is conveniently located in the historic Back Bay, one block from Newbury Street, adjacent to the Public Garden, Boston Common, Financial District and theatres.

Hilton Boston Back Bay

40 Dalton Street
Boston, MA 02115
Phone: (617) 236-1100
www.hilton.com

*Room rate: \$237 single; \$257 double;
\$277 triple; \$297 quad*

Hilton Boston Back Bay is in the heart of Boston's historic Back Bay district and across the street from the Hynes Convention Center. The hotel's ultra-modern rooms are decorated in dark-wood accents and Boston-inspired themes. Each guest room has elegant bathrooms with marble countertops, in-room coffeemaker, on-command movies, and cable television. They also offer high-speed Internet access and ergonomic work desk with chair. Use the complimentary fitness center and an on site ticket office. There is also an on site restaurant featuring casual dining.

The Colonnade Hotel

120 Huntington Avenue
Boston, MA 02116
Phone: (617) 424-7000
www.colonnadehotel.com

*Room rate: \$190 single/double; \$209 triple;
\$228 quad*

The Colonnade is in the heart of Back Bay adjacent to the Copley Place and the Prudential Center shopping centers and near the Hynes Convention Center. Guest rooms feature high-speed Internet access, three phone lines, terry cloth robes, umbrellas, in-room safes and daily newspaper delivery. The Colonnade Hotel is also home to Boston's most authentic brasserie, Brasserie JO, an award winning French restaurant.

Four Seasons

200 Boylston Street
Boston, MA 02116
Phone: (617) 338-4400
www.fourseasons.com/boston

Room rate: \$385 single/double

Four Seasons Hotel Boston is New England's only AAA Five Diamond, Mobil Five Star hotel. Located in the heart of the city across from the famed Public Garden and steps from the world-class shopping of Newbury Street, the hotel allows a visitor to see the historic city on foot. Four Seasons Hotel Boston offers 273 guest rooms, including 76 suites, and is conveniently located near the business and theatre districts. All guest rooms and suites are elegantly furnished and feature bay windows that open onto enticing views of the city. Amenities include oversized bath towels, down pillows, terry bathrobes, multi-line telephone and wireless high-speed Internet access.

Hostelling International Boston

12 Hemenway Street
Boston, MA 02115
Phone: (617) 536-9455
www.bostonhostel.org

Room rate: Prices vary from \$35-\$55 per person, per bed

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.

Note: All reservations and room assignments are subject to availability.

Hotel reservations should be made through the designated Housing bureau.

Hotel Grid |||||

	Distance to Convention Center	AANS Shuttle to Convention Center	Reservation Cancellation Policy	Restaurants/Lounge	Room Service
Sheraton Boston Hotel (Headquarters)	Indoor Connection	No	72 hours	2	6am-1am
Boston Marriott Copley Place	Indoor Connection	No	6pm day of arrival	3	24 hours
Westin Copley Place Hotel	Indoor Connection	No	24 hours	5	24 hours
Boston Park Plaza	1.29 miles (5 Blocks)	Yes	24 hours	7	24 hours
Hilton Boston Back Bay	Across Street	No	By or before 6pm day of arrival	2	Yes
The Colonnade Hotel	Across Street	No	72 hours	1	24 1am
Four Seasons	1 mile	Yes	24 hours	2	24 hours
Hostelling International Boston	4 Blocks	No	24 hours	1	N/A

Pool	Spa	Fitness Center	Parking	Concierge	Smoking	Business Center	High-Speed Internet Access
Y	N	Y	\$38/day (self) \$39/day (valet)	Y	Limited number room on request	Y	Y Fee for in room access
Y	Y	Y	\$34/day (self) \$39/day (valet)	Y	Non-smoking facility	Y	Y Fee for in room access
Y	Y	Y	\$40/day (valet)	Y	Non-smoking facility	Y	Y Fee for in room access
N	N	Y	\$28/day (self) \$38/day (valet)	Y	Limited number room on request	Y	Y Fee for in room access
Y	N	Y	\$35/day (self) \$39/day (valet)	Y	Limited number room on request	Y	Y Fee for in room access
Y	N	Y	\$36/day (self)	Y	Limited number room on request	Y	Y \$13.95/hour
Y	Y	Y	\$39/day (valet)	Y	Limited number room on request	Y	Y Fee for in room access
N/A	N/A	N/A	N/A	N/A		N/A	N/A

Housing

The housing deadline is Monday, July 27, 2009. After that date, room availability and special rates cannot be guaranteed.

The Sheraton Boston Hotel has been designated as the Headquarters Hotel for the Meeting. Additional housing is available at the hotels listed in the Hotel Information Grid (page 52-53); all are official hotels of the XIV World Congress of Neurological Surgery.

The WFNS Housing Bureau will process hotel reservations based on choice and availability. All reservation requests must be made through the WFNS Housing Bureau. Rooms will be assigned on a first-come, first-served, space-available basis.

The official hotels have been selected because they are in good locations, provide a variety of rates and have consistently shown a high level of product and service. All WFNS hotels, with the exception of the Boston Park Plaza and the Four Seasons Hotel, are within walking distance of the John B. Hynes Veterans Memorial Convention Center. The Boston Park Plaza and the Four Seasons Hotel will have continuous shuttle service to and from the Convention Center. Shuttle service to and from the Convention Center will not be provided from any other area hotel. Please review the detailed information for further details on each hotel.

MATCH PROGRAM / ROOM SHARING

If you are interested in sharing a hotel room with a colleague, please check the box indicated on the housing form. A customer service representative will contact you to discuss your options. Matching will only be available for the Colonnade Hotel. There is no guarantee that you will be matched. Two candidates must be of the same gender and have the same check in/check out dates. Separate confirmations will be sent to those who have been matched in a room and will be provided with the names of their share-with only. Both parties in a match must place their credit cards on file for guarantee. Thirty days prior to arrival, reservations will be charged to each card for your half of the duration of your stay and will be non-refundable. Cancellations and shortening stays after 30 days will forfeit part or all of pre-payment.

WAYS TO REGISTER

Visit www.AANS.org/wfns2009 and complete an online Housing Reservation Form using a credit card for payment. The WFNS online Housing Reservation Form is the most immediate and secure method of making your hotel reservation.

Fax a completed Housing Reservation Form with credit card information to (800) 713-0796 (U.S.) or (847) 297-5086 (International).

Mail a completed Housing Reservation Form with check or credit card information to:

WFNS Registration Department

c/o Conference Technology Enhancements, Inc. (CTE)
PO Box 783

Elk Grove Village, IL 60009-0783

You may guarantee your reservation with VISA, MasterCard or American Express.

A housing 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 registration. A portion of your room rate will be used to defray the cost of housing and registration services.

PLEASE NOTE: NO RESERVATIONS WILL BE ACCEPTED BY TELEPHONE.

Do not send your Housing Reservation Form to the WFNS Housing Bureau via Federal Express, UPS, Airborne or other international shipper. The only overnight service that will deliver to a PO Box address is the U.S. Postal Service.

CUT-OFF DATE

The cut-off date for receipt of your Housing Form is Monday, July 27, 2009. After this date, rooms will be assigned on a first come, first served, space-available basis.

CHANGES/CANCELLATIONS

To cancel or make changes to reservations, contact the WFNS housing Bureau in writing by fax at 800-438-3809 (U.S.) or 847-759-6950 (International) or you may e-mail your request to wfns2009@cteusa.com. Refer to the Hotel Information Grid on pages 52-53 for the cancellation policy at each hotel. Reservation changes and cancellations will not be accepted directly by the hotels.

Local Transportation & Meeting Registration

Airline Information



American Airlines, a member of the OneWorld Alliance, has been designated as the official airline of the XIV World Congress. A 5% discount off the lowest applicable published air fare will be offered when you or your travel agent book online at www.aa.com or by calling within the United States American's toll-free number 1-800-433-1790 (note - a \$10 USD ticketing charge will apply for tickets purchased via phone) and refer to the Meeting ID number A2189AA. A \$15 USD fee will apply for tickets purchased at the airport. Discounts apply for American and American Eagle flights only. International attendees must call their local reservations number and refer to the discount code. Please book early to take advantage of promotional fares that give you the greatest discount.

Taxi Service

Taxis are readily available at Boston's Logan Airport 24 hours a day. Fares are based on a zone; with a 12-mile radius of downtown Boston being charged a metered rate. Fares are based upon one to four passengers per taxi. There is a \$2 airport fee leaving Logan and a \$4.50 fee when you travel through the harbor tunnels.

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 sign. Tokens can be purchased at most stations.

Registration

General Registration is now open!

Early Registration Deadline is July 27, 2009—save money by registering by July 27, 2009!

The WFNS is accepting online and faxed registration forms with completed credit card information. Registering in advance expedites on-site check-in and increases your chances of receiving your first choices for Practical Courses and Breakfast Sessions.

WAYS TO REGISTER

- o Visit <http://www.aans.org/wfns2009> and complete an online Advance Registration Form using a credit card for payment. The XIV World Congress online registration form is the most immediate and secure method of registration.
- o Fax a completed Advance Registration Form with credit card information to (800) 438-3809 (U.S.) or (847) 759-6950 (International).
- o Mail a completed Advance Registration Form with check or credit card information to:

XIV World Congress Registration Department
c/o Conference Technology Enhancements, Inc.
(CTE)
PO Box 783
Elk Grove Village, IL 60009-0783

For wire transfers or questions regarding the XIV World Congress, call 001 (800) 431-8106 (U.S.) or 001 (847) 759-4250 (International).

To request additional meeting packets:

Call (847) 378-0500 ext. 529 or
(888) 566-AANS (2267) ext. 529
Fax (847) 378-0629
E-mail wfns2009@aans.org

IMPORTANT: Do not send forms to the XIV World Congress Registration Department or Housing Bureau via Federal Express, UPS, Airborne or DHL. The only overnight service that will deliver to a PO Box address is the U.S. Postal Service. A letter of 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 registration.

Local Transportation & Meeting Registration

You will receive a separate confirmation for your hotel reservation. All refunds will be processed and mailed following the XIV World Congress meeting. Refunds will be made in accordance with the following schedule:

- o Cancellation received on or before July 27, 2009 will receive a full refund less a \$50 processing fee.
- o Cancellations received between July 28 and August 28, 2009 will receive a full refund less a \$100 processing fee.
- o No refunds will be made for cancellations received after August 28, 2009 or no-shows.

ON-SITE REGISTRATION HOURS

Saturday, August 29	1700 - 1900
Sunday, August 30	0600 - 1730
Monday, August 31	0600 - 1600
Tuesday, September 1	0600 - 1600
Wednesday, September 2	0600 - 1600
Thursday, September 3	0600 - 1600
Friday, September 4	0600 - 1000

IMPORTANT NOTICE

XIV World Congress registrations will not be processed without a valid credit card or check. No practical courses or breakfast sessions tickets will be reserved without payment.

ATTENTION SPEAKERS

Complimentary registration will not be provided for one-day speakers. All speakers must register at the applicable registration rate. WFNS does not allow the reimbursement of travel expenses or registration fees to neurosurgeons speaking or presenting at the meeting.

RESIDENT REGISTRATION

In an effort to support resident attendance, particularly for residents in developing countries, the XIV World Congress of Neurological Surgery of the WFNS created three registration levels for Residents. Registration fees are based on where the resident lives/practices, and are based on the World Bank's classifications.

The registration fee for Residents from "Low-Income Economies" and "Lower-Middle Income Economies" (Tier 1) is waived. There is no fee. Fees for Tiers 2 & 3 are listed with each category.

REGISTRATION FEES

	On or Before 7/27/09	7/27/09 or Later
All Medical Attendees (901)	\$650	\$750
Allied Health Professionals* (902)	\$325	\$425
Resident/Fellow/Medical Student - Tier 1 (910)	\$0	\$0
Resident/Fellow/Medical Student - Tier 2 (909)	\$100	\$150
Resident/Fellow/Medical Student - Tier 3 (908)	\$300	\$400
Spouse** (950)	\$295	\$395
Guest** (951)	\$295	\$395
Children (17 and Under) (952)	\$150	\$250

* Includes nurses, medical assistants, physician assistants, and neurosurgery office staff.

**Spouses/Guests cannot earn CME credit nor can they attend any breakfast sessions and/or practical courses.

IMPORTANT DATES

July 27, 2009 Early Registration and Housing Deadline

August 21, 2009 Advanced Registration Deadline (After this date, plan to register onsite in Boston, MA)

Resident Registration Tiers

TIER 1 \$0 USD

*Low- or Lower-Middle
Income economies*

Afghanistan
Albania
Algeria
Angola
Armenia
Azerbaijan
Bangladesh
Benin
Bhutan
Bolivia
Bosnia and
Herzegovina
Burkina Faso
Burundi
Cambodia
Cameroon
Cape Verde
Central African
Republic
Chad
Colombia
Comoros
Congo, Democratic
Republic of the
(Zaire)
Congo, Republic of
Cook Islands
Cote d'Ivoire
Djibouti
Dominican Republic
Ecuador
Egypt
El Salvador
Eritrea
Ethiopia
Falkland Islands
(Malvinas)
Fiji
Gambia
Georgia
Ghana
Guadeloupe
Guatemala
Guinea
Guinea - Bissau
Guyana
Haiti
Honduras
India

Indonesia
Iran
Iraq
Ivory Coast
see Cote d'Ivoire
Jamaica
Jordan
Kenya
Kirghizstan
Kiribati
Kosovo
Kyrgyzstan
Laos
Lesotho
Liberia
Macedonia
Madagascar
Malawi
Maldives
Mali
Marshall Islands
Martinique
Mauritania
Micronesia
Moldova
Mongolia
Montserrat
Morocco
Mozambique
Myanmar (Burma)
Namibia
Nauru
Nepal
Nicaragua
Niger
Nigeria
North Korea,
Democratic People's
Republic of
Pakistan
Papua New Guinea
Paraguay
People's Rep of China
Peru
Philippine Islands
Philippines
Pitcairn
Rwanda
Samoa
Sao Tome and
Principe
Senegal
Sierra Leone
Solomon Islands

Somalia
Sri Lanka
St. Helena
Sudan
Suriname
Swaziland
Syria
Taiwan ROC
Tajikistan
Tanzania
Thailand
Timor-Leste
Togo
Tonga
Tunisia
Turkmenistan
Turks & Caicos
Tuvalu
Uganda
Ukraine
Uzbekistan
Vanuatu
Viet Nam
West Bank and Gaza
Yemen
Zambia
Zimbabwe

TIER 2 \$100 USD

*Upper-Middle
Income economies*

American Samoa
Anguilla
Antarctic Aus
Territory
Argentina
Ascension Island
Belarus
Belize
Botswana
Brazil
Bulgaria
Chile
Costa Rica
Croatia
Cuba
Dominica
Gabon
Grenada
Kazakhstan
Latvia

Lebanon
Libya
Lithuania
Malaysia
Mauritius
Mayotte
Mexico
Montenegro
Palau
Panama
Poland
Romania
Russia
Serbia
Seychelles
South Africa
St. Kitts and Nevis
St. Lucia
St. Vincent and the
Grenadines
Turkey
Uruguay
Venezuela
Vojvodina

TIER 3 \$300 USD

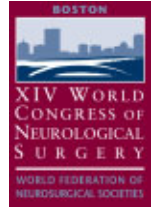
*High Income
economies*

Andorra
Antigua and Barbuda
Aruba
Australia
Austria
Azores
Bahamas
Bahrain
Barbados
Belgium
Bermuda
Brunei Darussalam
Canada
Cayman Islands
Channel Islands
Christmas Island
(Indian Ocean)
Cocos (Keeling) Islands
Cyprus
Czech Republic
Denmark
England
Equatorial Guinea

Estonia
Faeroe Islands
Finland
France
French Guiana
French Polynesia
Germany
Gibraltar
Great Britain
Greece
Greenland
Guam
Hong Kong
Hungary
Iceland
Ireland
Isle of Man
Israel
Italy
Japan
Kuwait
Liechtenstein
Luxembourg
Macao
Malta
Monaco
Netherlands
Netherlands Antilles
New Caledonia
New Zealand
Northern Mariana
Islands
Norway
Oman
Portugal
Qatar
San Marino
Saudi Arabia
Scotland
Singapore
Slovakia
Slovenia
South Korea
Spain
Sweden
Switzerland
Trinidad and Tobago
United Arab Emirates
United Kingdom
United States
Virgin Islands (UK)
Virgin Islands (US)
Wales



XIV World Congress of Neurological Surgery of the World Federation of Neurological Societies



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Hosted by:



Dear Colleague

This letter will serve to invite you to attend the XIV World Congress of Neurological Surgery of the World Federation of Neurological Societies at the John B. Hynes Memorial Convention Center in Boston, Massachusetts, August 30 – September 4, 2009.

The WFNS is a not-for-profit organization dedicated to promoting and developing the highest standards of neurological surgery in all its aspects by facilitating the personal association of neurosurgeons throughout the world, aid in the exchange and dissemination of knowledge and ideas in the field of neurosurgery and to encourage research and investigation in neurosurgery and allied sciences. More than 2500 medical professionals from around the world are expected to attend this quadrennial meeting which will offer exceptional educational opportunities. In addition, more than 200 technical exhibitors will display state-of-the-art technology and advances in the field of neurosurgery.

During your stay in the United States, you will not be remunerated by WFNS nor can you be engaged in any employment. You will be responsible for your own travel expenses that include airfare, ground transportation, hotel, meals and travel insurance. We understand that you may want to explore the Boston and/or the New England area or visit colleagues and friends before or after the meeting. Therefore, your travel to the United States will be approximately from August 26 – September 9, 2009.

The XIV World Congress of Neurological Surgery Meeting promises to be an exceptional educational experience. We look forward to your participation.

Sincerely,

Roberto C. Heros, MD

*President, XIV World Congress of
Neurological Surgery of the World
Federation of Neurological Societies*

XIV WORLD CONGRESS OF NEUROLOGICAL SURGERY OF THE WORLD FEDERATION OF NEUROLOGICAL SOCIETIES

Boston Massachusetts
August 30 - September 4, 2009

XIV World Congress Host:
American Association of Neurological Surgeons (AANS)
5550 Meadowbrook Drive
Rolling Meadows, IL 60008-3852

Phone: 001-847-378-0500 (International) or 800-566-AANS (2267) (US and Canada)

Web site: www.AANS.org/wfns2009

Email: wfns2009@aans.org

IMPORTANT DATES

Early Registration & Housing Deadline Date	Monday, July 27, 2009
Advance Registration Deadline Date <i>(after this date plan to register onsite in Boston, MA)</i>	Friday, August 21, 2009
Residents & Young Neurosurgeons Codman/DePuy Spine Inc. Neurosurgeon Traveling Fellowship Deadline Date	Monday, February 2, 2009 (2359 CST)
Young Neurosurgeons Award Application Deadline Date	Saturday, February 28, 2009

Note: Visa application should be made well in advance of the meeting

*The XIV World Congress of Neurological Surgery of the
World Federation of Neurosurgical Societies gratefully acknowledges
the educational grant provided by*

TITANIUM LEVEL SPONSORS



Be sure to visit the XIV World Congress exhibit hall

Codman - Booth #2004
DePuy Spine, Inc. - Booth #2014

2009 XIV WORLD CONGRESS OF NEUROLOGICAL SURGERY OF THE
WORLD FEDERATION OF NEUROSURGICAL SOCIETIES
August 30 – September 4, 2009

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