

Exhibit Hours:

9:00 AM–3:30 PM

Lunch in the Exhibit Hall:

1:15–2:00 PM

BREAKFAST SEMINARS

7:30–9:30 AM

Cost: \$75 each

301

ABNS Board Preparation: What You Must Know

Moderator

M. Sean Grady, MD

Panelists

William T. Couldwell, MD, PhD; Tae Sung Park, MD

The panelists will describe the certification process from residency to certification.

Emphasis will be placed on strategies to prepare for the oral ABNS examination.

Learning Objectives

After completing this educational activity, participants should be able to:

- Discuss requirements for board certification
- Prepare for the ABNS oral examination

302

Multidisciplinary Management of Cerebral AVMs

R&F

Moderator

Neil A. Martin, MD

Panelists

Michael T. Lawton, MD; Bruce E. Pollock, MD; Robert H. Rosenwasser, MD, FACS; Gary K. Steinberg, MD, PhD

This will be a comprehensive discussion of the multidisciplinary management of

complex cerebral AVMs. The perspective of neurosurgeons, radiosurgeons and interventionalists will be presented.

Learning Objectives

After completing this educational activity, participants should be able to:

- Discuss indications for treatment of patients with AVMs

303

Suprasellar and Juxtassellar Tumors

Moderator

Michael W. McDermott, MD

Panelists

William T. Couldwell, MD, PhD; Theodore H. Schwartz, MD; Juraj Steno, MD, PhD; Harry R. van Loveren, MD

This seminar will concentrate on explaining the approaches and indications for surgical therapy of lesions in the suprasellar region in adults and children. Appropriate preoperative evaluation and surgical decision making will be discussed. Innovative surgical techniques will be presented. Management of the most common lesions arising in this area will be discussed.

Learning Objectives

After completing this educational activity, participants should be able to:

- Review the options for surgical approaches to tuberculoma sellae meningiomas
- Review the bifrontal extended frontal approach
- Review visual outcomes following surgery for tuberculoma sellae meningiomas
- Review outcomes for children after surgery for craniopharyngiomas
- Review outcomes after minimally invasive endoscopic approaches

304

Foraminal and Far Lateral Lumbar Disc Herniations

Moderator

John A. Jane, Sr., MD, PhD

Panelists

Benoit Goulet, MD, FRCS(C); Patrick W. Hitchon, MD; Paul D. Sawin, MD

The clinical and imaging characteristics of foraminal and far lateral lumbar disc herniations, as well as the surgical anatomy will be presented. The various surgical approaches—paramedian, transmuscular and endoscopic will be described and the indications will be discussed.

Learning Objectives

After completing this educational activity, participants should be able to:

- Recognize a foraminal and far lateral lumbar disc herniation
- Identify the surgical approaches for foraminal and lateral lumbar disc herniations
- Assess the prognosis of foraminal and lateral disc herniations

305

Lumbar Interbody Fusion

Moderator

Eric J. Woodard, MD

Panelists

Christopher Pearson Ames, MD; Catherine J. Gallo, MD; Nicholas Theodore, MD; Kenneth S. Yonemura, MD

This seminar will describe conditions amenable to lumbar interbody fusion and basic surgical approaches, instrumentation and complications of LIF (Lumbar Interbody Fusion).

Learning Objectives

After completing this educational activity, participants should be able to:

- Describe the indications for lumbar interbody fusion and the appropriate investigations to consider in the workup of patients
- Explain the advantages and disadvantages of various lumbar interbody fusion techniques, including minimally invasive options
- Explain approaches to minimize complications
- Discuss the relevant approach anatomy related to LIF surgery
- Discuss the latest technical advances related to LIF surgery

306

Surgical Treatment of Parkinson's Disease

Moderator

Philip A. Starr, MD, PhD

Panelists

Aviva Abosch, MD, PhD; P. Charles Garell, MD; Jaimie M. Henderson, MD

Participants will discuss current surgical targets for Parkinson's disease, a variety of technical approaches, and complications.

Learning Objectives

After completing this educational activity, participants should be able to:

- Identify potential brain targets for deep brain stimulation in Parkinson's disease
- Discuss technical alternative in placement of DBS electrodes
- Review complications of DBS for Parkinson's disease

307

Future Technology for Treating Hydrocephalus

Moderator

Mark G. Luciano, MD, PhD

Panelists

Jeffrey P. Blount, MD, FACS; Saadi Ghatan, MD; Abhaya Vivek Kulkarni, MD, FRCS; William E. Whitehead, MD

This seminar will review the physiology of hydrocephalus and how new shunt systems and sensor technology are likely to change our way of treating patients. The dynamic aspects of CSF flow and pressure gradients will be discussed, as well as what pressure sensors reveal about the causes of patient symptoms, and how a shunting system might be made using physiological data.

Learning Objectives

After completing this educational activity, participants should be able to:

- Identify CSF dynamics and how it changes with hydrocephalus
- Distinguish the relationship between clinical symptoms and CSF pressure measurements
- Recognize how this new approach might lead to a better shunt system based on physiological measurements

308

A History of Pre-Cushing Era Neurosurgery in North America

Moderator

James T. Goodrich, MD, PhD

Panelists

Peter W. Carmel, MD; Mark C. Preul, MD; James L. Stone, MD, FACS

This seminar will review some of the earlier personalities that contributed to American neurosurgery in the era just before Harvey Cushing. The purpose of this seminar is to evaluate some of the individuals that contributed to North American neurosurgery prior to Cushing and what influence this might have had on this era and perhaps on Harvey Cushing himself.

Learning Objectives

After completing this educational activity, participants should be able to:

- Discuss North American neurosurgery in the period just prior to Cushing
- Discuss other personalities that might have influenced early American neurosurgery
- Discuss the state-of-the-art of neurosurgery in the era just prior to Harvey Cushing
- Discuss contributions to neurosurgery by non-neurosurgeons in the era just before Harvey Cushing

309

Management of Vasospasm

Moderator

E. Sander Connolly, Jr., MD

Panelists

Peter David Le Roux, MD; R. Loch Macdonald, MD, PhD; Rafael J. Tamargo, MD; Erol Veznedaroglu, MD; H. Richard Winn, MD

This seminar will present the current status of treatment measures for vasospasm. There will be presentations of cases highlighting difficulties in the treatment of cerebral vasospasm.

Learning Objectives

After completing this educational activity, participants should be able to:

- Cite the treatments available for cerebral vasospasm and describe common indications for their use
- Cite levels of evidence upon which treatments for vasospasm are based
- Recognize experimental, clinical and laboratory assessments of treatments for vasospasm

310

N&PE

Management of Adult Scoliosis

Moderator

Christopher I. Shaffrey, MD

Panelists

Peter Douglas Angevine, MD; Robert F. Heary, MD; Stephen L. Ondra, MD

This seminar will discuss the strategies, evaluation and management of pediatric and adult spinal deformity. Special emphasis will be placed on the association of spinal deformity with conditions commonly treated by neurosurgeons.

Learning Objectives

After completing this educational activity, participants should be able to:

- Identify conditions associated with congenital and neuromuscular scoliosis
- Discuss diagnoses of the various types of pediatric and adult deformities
- Identify patients requiring bracing or surgical intervention

311

Intramedullary Spinal Cord Tumors

Moderator

Paul C. McCormick, MD

Panelists

Albino P. Bricolo, MD; Volker K. H. Sonntag, MD

This seminar will focus on the clinical evaluation and the current surgical management of intramedullary focus of the spinal cord.

Learning Objectives

After completing this educational activity, participants should be able to:

- Evaluate methods and strategies to reduce peri-operative complications
- Identify operative techniques to optimize safe achievement of optimal outcome

312

Building a Comprehensive Spine Center

Moderator

Craig Andrew Van Der Veer, MD

Panelists

Mark H. Camel, MD; Kevin T. Foley, MD; Thomas A. Kopitnik, Jr., MD; Richard N. Wohns, MD

This seminar instructs participants how to develop a multidisciplinary spine center within their hospital and community setting.

Learning Objectives

After completing this educational activity, participants should be able to:

- Recognize the core components to build an effective spine center
- Discuss interventional options and design treatment protocols for spine
- Apply strategies for developing an effective spine program in your practice

313

Syringomyelia: Pathophysiology and Treatment Approaches

Moderator

Edward H. Oldfield, MD

Panelists

Nicholas M. Barbaro, MD; Ulrich Batzdorf, MD; Karin M. Muraszko, MD

This seminar reviews the biology and pathophysiology of syringomyelia as a basis for diagnosis and treatment. Participants will be able to discuss the indications for surgery, the pros and cons of different operative approaches, and current opinion concerning treatments.

Learning Objectives

After completing this educational activity, participants should be able to:

- Discuss the indications for and selection of surgical approach to syringomyelia
- Discuss the pros and cons of different operative approaches for syringomyelia
- Discuss current options concerning optimal surgical techniques for syringomyelia
- Discuss the pathophysiology underlying syringomyelia

314

Management of Asymptomatic Vascular Lesion

Moderator

Warren R. Selman, MD

Panelists

David Chalif, MD, FACS; Richard Kerr, MD; Michael T. Lawton, MD; Robert H. Rosenwasser, MD, FACS

This seminar will address decision making and surgical technique for asymptomatic AVMs, aneurysms, carotid disease and intracerebral stenosis/occlusion.

Learning Objectives

After completing this educational activity, participants should be able to:

- Formulate treatment plans for silent AVMs
- Formulate treatment plans for unruptured aneurysms
- Formulate treatment plans for asymptomatic vascular occlusive disease

315

Neurosurgical Management of Intractable Pain

Moderator

Oren Sagher, MD

Panelists

Giovanni Broggi, MD; Kim J. Burchiel, MD, FACS; Robert M. Levy, MD, PhD; Richard K. Osenbach, MD

This seminar will review indications, techniques, and outcomes of contemporary neurosurgical procedures for the treatment of intractable pain. Attention will be directed toward practical applications of therapies that can be used in a general neurosurgical practice.

Learning Objectives

After completing this educational activity, participants should be able to:

- Compare the relative roles of noninvasive and invasive therapies for pain treatment
- Contrast the common indications for stimulation and drug delivery therapies for pain management
- Describe outcomes of neuromodulation therapies for pain management

316

Low-Grade Gliomas

Moderator

Joseph M. Piepmeier, MD

Panelists

Mitchel S. Berger, MD, FACS; Hugues Duffau, MD; Linda M. Liau, MD, PhD

This seminar will provide an update on current evaluation and management of low-grade gliomas. The panel will address the variety of tumors and compare outcomes from different treatment strategies.

Learning Objectives

After completing this educational activity, participants should be able to:

- Describe the range of pathologies included in low-grade gliomas
- Distinguish between different management strategies for low-grade gliomas

317

Spinal Surgical Challenges

Moderator

Edward C. Benzel, MD

Panelists

Regis W. Haid, Jr., MD; Volker K. H. Sonntag, MD; Vincent C. Traynelis, MD

This seminar portrays the surgical challenges of the expert panel. Each panelist will describe a challenge, followed by active discussion with the remaining panelists and audience.

Learning Objectives

After completing this educational activity, participants should be able to:

- Describe the nuances of complex surgical decision making
- Formulate individual decision making paradigms
- Practice critical thinking techniques

318

Management of Pediatric Spinal Column Disorders

Moderator

Douglas L. Brockmeyer, MD

Panelists

Richard C. E. Anderson, MD; Hugh J. L. Garton, MD, MHSc; Dachling Pang, MD

This seminar will cover the most common congenital, traumatic and neoplastic disorders of the pediatric spinal column, along with their management. Emphasis will be placed on explaining basic biomechanical principles of the pediatric spine.

Learning Objectives

After completing this educational activity, participants should be able to:

- Describe indications for surgery in pediatric spinal problems
- Review basic biomechanical principles of the pediatric spine

319

Cerebral Trauma State-of-the-Art Treatment

Moderator

Alex B. Valadka, MD

Panelists

Austin R. Colohan, MD, FACS; Geoffrey T. Manley, MD, PhD; David O. Okonkwo, MD, PhD; Jamie S. Ullman, MD

This seminar will review current and future treatment options for patients with traumatic brain injury.

Learning Objectives

After completing this educational activity, participants should be able to:

- Discuss optimal management strategies for patients with traumatic brain injury
- Describe therapies that may become clinically available in the near future

320

The Spectrum of Adjuvant Therapy for Brain Tumors

Moderator

Raymond Sawaya, MD

Panelists

Jeffrey N. Bruce, MD, FACS; Amy B. Heimberger, MD; Randy Lynn Jensen, MD, PhD; James M. Markert, Jr., MD

This seminar will provide a state-of-the-art review of the different treatment options available for patients with malignant brain tumors. These treatment options influence radiation therapy, including radiosurgery and chemotherapy.

Learning Objectives

After completing this educational activity, participants should be able to:

- Describe current scientific advances used to diagnose and treat brain tumors
- Discuss current problems with the design of effective therapies and recommend appropriate treatment options
- Design the best treatment programs based on current data for patients with brain tumors

321

Microvascular Anatomy as a Guide to Better Surgery

Moderator

Evandro De Oliveira, MD, PhD

Panelists

Eliseu Paglioli, MD, Prof; Albert L. Rhoton, Jr., MD; Ugur Ture, MD

This seminar will review the anatomy, pathology and operative approaches to vascular, neoplastic and compressive lesions involving the intracranial vascular structures.

Learning Objectives

After completing this educational activity, participants should be able to:

- Describe the microsurgical anatomy of the vascular system in the cranium and skull base
- Diagnose pathologic lesions involving the vascular system
- Select operative approaches to vascular lesions of the brain, skull base and Circle of Willis

322

Management of Subacute and Chronic Treatment of Traumatic Spinal Cord Injury

N&PE

Moderator

Michael G. Fehlings, MD, PhD

Panelists

Barth A. Green, MD, FACS; Geoffrey T. Manley, MD, PhD; Daniel K. Resnick, MD; Scott A. Shapiro, MD

The treatment of patients with spinal cord injuries after the initial 72 hours will be discussed with a focus on clinical trials, novel approaches to rehabilitation, management of delayed complications of spinal cord injury including post-traumatic deformity and syringomyelia/tethering.

Learning Objectives

After completing this educational activity, participants should be able to:

- Discuss the relevant pathophysiology of acute spinal cord injury

- Explain the best medical treatment options for acute spinal cord injury
- Explain the role and timing of surgical intervention for acute spinal cord injury
- Explain the management of post traumatic syringomyelia and spinal cord tethering
- Discuss the latest advances in clinically relevant spinal cord research including stem cell therapies and clinical trials

323

New and Evolving Technologies for Minimally Invasive Surgery of the Lumbar Disc

Moderator

Richard G. Fessler, MD, PhD

Panelists

Charles L. Branch, Jr., MD; Dean Chou, MD; Larry T. Khoo, MD; Maurice M. Smith, MD

This seminar will focus on the techniques of lumbar disc surgery and lumbar interbody fusion. Competing technologies will be evaluated on a side-by-side basis.

Learning Objectives

- After completing this educational activity, participants should be able to:
- Review current techniques of surgery on the lumbar disc
 - Compare benefits and problems between these techniques
 - Compare potential risks of each of these techniques

324

N&PE

Neurosurgical Patient Assessment Scales: Critique and Practice Integration

Moderator

Christina M. Stewart-Amidei, MSN RN, CCRN

Panelists

Susan Bell, RN, MS, CNRN; Kathleen Redelman, RN, CNRN; Nancy Eleanor Villanueva, ANP-C

Assessment scales developed for research have been incorporated over time into clinical practice. This session serves as a review of commonly used patient assessment tools, including tool development,

reliability and validity testing, and clinical applications, as well as limitations in use.

Learning Objectives

- After completing this educational activity, participants should be able to:
- Critically analyze commonly used patient assessment scales in neurosurgical research and clinical practice
 - Appropriately incorporate patient assessment scales into clinical practice

PLENARY SESSION III

9:45 AM–1:00 PM

Moderators

Matthew A. Howard, III, MD; Vincent C. Traynelis, MD

800

9:45–9:59 AM

Twenty-Three-Year Experience of a Single Neurosurgeon in Transphenoidal Pituitary Surgery for Cushing's Disease in Children and Adolescents

Authors

Mohammed Awad, MBBS, BSc; Jonathan A. Hyam, MBBS, FRCS; Shabin Joshi, MBBS, FRCS; Helen L. Storr, MBBS, BSc; Ashley B. Grossman, MD; Martin O. Savage, MD; Fary Afshar, FRCS

801

10:00–10:14 AM

Efficacy and Risks Associated with Adjustable Valves in the Treatment of Idiopathic Normal Pressure Hydrocephalus

Authors

Raqeeb Haque, MD; Jason A. Ellis, MA; Christopher P. Kellner, BA; Amanda J. Silverman, BS; Guy M. McKhann, II, MD; Robert R. Goodman, MD, PhD

802

10:15–10:29 AM

National Complications and Outcomes After Posterior Lumbar Fusion for Degenerative Spondylolisthesis

Authors

Paul Kalanithi, MD; Chirag Patil, MD; Shivanand P. Lad, MD, PhD; Maxwell Boakye, MD

803

10:30–10:44 AM

Factors Associated with Aspirin and Clopidogrel Resistance in Endovascular Neurosurgery Procedures

Authors

John F. Reavey-Cantwell, MD, MS; W. Christopher Fox, MD; Brett D. Reichwage, MD; Gregory L. Fautheree, MD; Gregory J. Velat, MD; Jobyna H. Whiting, MD; Christopher S. Firment, MD; Brian L. Hoh, MD

804

10:45–10:59 AM

Third Ventriculostomy for Treatment of Hydrocephalus: Results of 301 Procedures

Authors

Joachim M. Oertel, DR; Henry WS Schroeder, DR; Michael R. Gaab, DR

805

11:00–11:14 AM

Significant Reduction in Neurosurgical Hardware Infection with Use of Local Antibiotics

Authors

Jonathan P. Miller, MD; Feridun Acar, MD; Kim Burchiel, MD

RHON FAMILY LECTURE

11:15–11:50 AM

Introduction

Jon H. Robertson, MD

Speaker

Mrs. Lee Woodruff

THEODORE KURZE LECTURE

11:51 AM–12:25 PM

Introduction

Jon H. Robertson, MD

Speaker

Michael L.J. Apuzzo, MD

HUMANITARIAN AWARD

12:26–12:28 PM

Introduction

Jon H. Robertson, MD

Recipient

Robert J. Dempsey, MD

VAN WAGENEN FELLOW PRESENTATION

12:29–12:31 PM

Introduction

Jon H. Robertson, MD

Recipient

TBD

VAN WAGENEN LECTURE

12:32–1:00 PM

Speaker

Rodolfo Llinas, MD, PhD

LUNCH IN THE EXHIBIT HALL

1:15 – 2:00 PM

POSTER VIEWING IN THE EXHIBIT HALL

2:00–2:45 PM

AANS/CNS SECTION ON PAIN

2:45–5:30 PM

Moderator

Joshua M. Rosenow, MD

809

2:45–2:56 PM

William Sweet Award

Unmasking A Novel Brainstem Compensatory Mechanism in Neuropathic Pain

Authors

Jonathan D. Carlson, MD, PhD; Jennifer Maire; Mary Heinricher, PhD

810

2:57–3:08 PM

Nerve Root Stimulation for Neuropathic Pain. A Preliminary Report on Outcomes

Authors

Alan T. Villavicencio, MD; Sigita Burneikiene, MD

811

3:09–3:20 PM

Tailored Deep Brain Stimulation Targets for Chronic Pain Syndromes

Authors

Jean-Philippe Langevin, MD; Antonio A. De Salles, MD, PhD; Alessandra Gorgulho, MD; Sandi Lam, MD; Jackie King, MS

812

3:21–3:32 PM

Glia-Specific Connexin-43 in Rat Sensory Ganglia Plays a Critical Role in the Modulation of Pain

Authors

Luc Jasmin, MD, PhD; Jean-Philippe Vit, PhD; Aditi Bhargava, PhD; Peter T. Ohara, PhD

813

3:33–3:44 PM

Microvascular Decompression for Glossopharyngeal Neuralgia: A Long-Term Retrospective Review of the Milan-Bologna Experience in 31 Consecutive Cases

Authors

Paolo Ferroli; Antonio Fioravanti; Marco Paolo Schiariti; Giovanni U. Tringali; Angelo Franzini; Fabio Calbucci; Giovanni Broggi

814

3:45–3:56 PM

Radiographic Evaluation of Trigeminal Neurovascular Compression in Patients With and Without Trigeminal Neuralgia

Authors

Jonathan P. Miller, MD; Feridun Acar, MD; Bronwyn Hamilton, MD; Kim Burchiel, MD

815

3:57–4:08 PM

Cranial Peripheral Nerve Stimulation for Intractable Headache: Prospective Two Year Follow-Up Results

Authors

Robert M. Levy, MD, PhD; Janna L. Silverstein, BA

816

4:09–4:20 PM

Dysesthetic Pain in Patients with Syringomyelia and Chiari Type I Malformation

Authors

Kazutoshi Hida, MD, PhD; Shunsuke Yano, MD, PhD; Yoshinobu Iwasaki, MD, PhD

3RD ANNUAL JOHN LOESER LECTURE

4:21–5:05 PM

Speaker

TBD

SYMPOSIUM

Functional Imaging of Pain

5:06–5:30 PM

Speaker

A. Vania Apkarian, PhD

AANS/CNS SECTION ON TUMOR II

2:45–5:30 PM

Moderators

Jeffrey N. Bruce, MD, FACS; Antonio Chiocca, MD, PhD

SYMPOSIUM

2:45–3:30 PM

An Expert Panel Discussion on “Stem Cells in Brain Tumors”

Learning Objectives

- After completing this educational activity, participants should be able to:
- Discuss the existence of human brain stem cells and their location in the subventricular zone
 - Explain potential utilization of human neural stem cells in the diagnosis and treatment of CNS diseases
 - Explain the directed differentiation of human embryonic stem cells into specific cell types, with emphasis on the central nervous system
 - Discuss the potential use of human embryonic stem cells as replacement tools in the CNS disorders
 - Discuss the current status of somatic cell nuclear transfer and reprogramming
 - Explain the hypothesis of cancer stem cells and how it applies to human brain tumors and mouse models of brain tumors

Human Neural Stem Cells:

Current Evidence

2:45–2:59 PM

Speaker

Alfredo Quinones-Hinojosa, MD

Human Embryonic Stem Cells

3:00–3:14 PM

Speaker

Viviane S. Tabar, MD

Cancer Stem Cells in Brain Tumors of Mice and Man

3:15–3:29 PM

Speaker

Peter B. Dirks, MD

PANEL DISCUSSION

3:30–4:00 PM

825 4:01–4:10 PM

Temozolomide Enhances Efficacy of EGFRvIII Vaccine (CDX-110) in Patients with Newly-diagnosed GBM

Author

John H. Sampson, MD

826 4:11–4:20 PM

Ronald L. Bittner Award

Extent of Surgical Resection is Independently Associated with Survival in Patients with Malignant and Low-Grade Brain Astrocytoma

Authors

Matthew J. McGirt, MD; Frank Attenello, MS; Muraya Gathinji, MS; Khoi Than, MD; Kaisorn L. Chaichana, BS; Ghazala Dato, BS; Alessandro Olivi, MD; Jon D. Weingart, MD; Henry Brem, MD; Alfredo Quinones-Hinojosa, MD

827 4:21–4:30 PM

Development of a Mouse Model of Malignant Glioma Through the Overexpression of Platelet Derived Growth Factor in White Matter Progenitor Cells

Authors

Christopher E. Mandigo, MD; Monique Vanaman, BS; Marcela Assanah, PhD; Peter Canoll, PhD; Richard CE Anderson, MD; Jeffrey N. Bruce, MD

828 4:31–4:40 PM

Integra Foundation Award

Operative Outcome Following Meningioma Surgery: A Single Surgeon's Experience with 600 Cases

Authors

Joung H. Lee, MD; Burak Sade, MD

829 4:41–4:50 PM

BrainLAB Community Neurosurgery Award

Survival Following Stereotactic Radiosurgery for Newly Diagnosed and Recurrent Glioblastoma Multiforme

Authors

Alan T. Villavicencio, MD; Sigita Burneikiene, MD; Pantaleo Romanelli, MD; Lee McNeely, MD; John Lipani, MD; Laura Fariselli, MD; Steven D. Chang, MD; Melinda McIntyre, RN; Giovanni Broggi, MD; Jeffrey J. Thramann, MD; John Addler, MD

830 4:51–5:00 PM

Microarray Analysis of Paired Initial and Recurrent High Grade Gliomas

Authors

Peter D. Kim, MD, PhD; Jennifer S. Jennings, MD; Frank A. Middleton, PhD; Gregory W. Canute, MD; Walter A. Hall, MD, MBA

831 5:01–5:10 PM

Myxopapillary Ependymomas of the Filum: A Single Center Retrospective Review

Authors

Nicholas C. Bambakidis, MD; Elisa Beres, MD; Robert Spetzler, MD

832 5:11–5:20 PM

Delayed Extrusion of Hydroxyapatite (HA) After Transpetrosal Reconstruction

Authors

Robert G. Kerr, MD; Mathew J. Hearst, MD; Ravi N. Samy, MD, FACS; Philip V. Theodosopoulos, MD; John M. Tew, Jr., MD; Myles L. Pensak, MD, FACS

833 5:21–5:30 PM

Stereoscopic 3-Dimensional Endoscopic Pituitary Surgery

Authors

Theodore H. Schwartz, MD; Seth Brown, MD, MBA; Vijay K. Anand, MD, FACS

AANS/CNS SECTION ON PERIPHERAL NERVE

2:45–5:30 PM

Moderator

Allen H. Maniker, MD

KLINE LECTURESHIP

Introduction

2:45–3:00 PM

Robert J. Spinner, MD, FACS

3:01–3:45 PM

Recipient

Professor Rolf Birch

Sponsored by Integra

806 3:46–3:55 PM

Patient Satisfaction after Brachial Plexus Surgery

Authors

Thomas Kretschmer, MD, PhD; Sarah Ihle; Gregor Antoniadis, MD, PhD; Julia Seidel, MD; Christian Heinen, MD; Wolfgang Barm, MD, PhD; Hans-Peter Richter, MD, PhD; Ralph Kanig, MD

807 3:56–4:05 PM

Tissue-Engineered Nerve Grafts with a Capillary-Like Network

Authors

Marie-Noëlle Hébert-Blouin, MD; René Caissie, MD; Line Jacques, MD; François Berthod, PhD

808 4:06–4:15 PM

Carpal Tunnel Syndrome: Avoid Complications

Author

Iñaki Arroategui

SYMPOSIUM—CONTROVERSIAL CASES

Birth Palsy, Nerve Tumor and Entrapment Syndromes

4:16–5:30

Moderator

Allen Maniker, MD

Panel:

Allan J. Belzberg, MD; Robert J. Spinner, MD, FACS; Raj Midha, MD, MS, FRCS

AANS/CNS SECTION ON PEDIATRIC NEUROLOGICAL SURGERY

2:45–5:30 PM

Moderator

Sarah J. Gaskill, MD, FACS

SHULMAN AWARD PRESENTATION

2:45–3:00 PM

Recipient

Jeffrey P. Greenfield, MD, PhD

HYDROCEPHALUS AWARD PRESENTATION

3:01–3:15

MATSON LECTURE

3:16–3:54 PM

Speaker

Marion L. Walker, MD

834

3:55–4:06 PM

Cerebrovascular Physiology in Neonates with Congenital Hydrocephalus

Authors

William C. Hanigan, MD; Jean C.
Aldag, PhD

835

4:07–4:18 PM

Role of Rac1-Mediated Signaling in Medulloblastoma Invasion

Authors

Salvatore M. Zavarella, BS; Salvatore
Coniglio, PhD; Shawn Belverud, DO;
Mark Mittler, MD; Steven Schneider, MD;
Mark Symons, PhD

836

4:19–4:30 PM

Seizure Reduction and Effect on Antiepileptic and Behavioral Medications After Vagus Nerve Stimulator Placement

Authors

Rohan R. Lall, BS; David M. Frim, MD,
PhD; Michael Kohrman, MD

837

4:31–4:42 PM

Outcomes After Surgery for Focal Epilepsy in Children

Authors

Peter Kan, MD; Colin Van Orman, MD;
John RW Kestle, MD

838

4:43–4:54 PM

Congenital Hydrocephalus Still Beats the Shunt Technology: Programmable Shunts Did Not Change the Scenario of Revisions

Authors

Christina Notarianni, MD; Papireddy
Bollam, MD; Prasad Vannemreddy, MD;
Gloria Caldito, MD; Esther Wylen, MD;
Brian Willis, MD; Anil Nanda, MD

839

4:55–5:06 PM

Correlation of Cognitive Deficits and Noninvasive Measurement of ICP and CBF in Hydrocephalus

Authors

Roberta P. Glick, MD; Terry Lichtor, MD,
PhD; Aaron Lee, BS; Noam Alperin, PhD

840

5:07–5:18 PM

Evaluation of CSF Drainage by Subcutaneous Ventricular Reservoir and Permanent Diversion Procedures in the Management of Posthemorrhagic Hydrocephalus in Premature Infants

Authors

Vijayakumar Javalkar, MD; Prasad
Vannemreddy, MD; Gloria Caldito, MD;
Anil Nanda, MD

841

5:19–5:30 PM

Parent Assessment on the BRIEF Correlates with Executive Performance of Children with Shunted Hydrocephalus

Authors

Maureen A. Lacy, PhD; Emily Atria, BS;
Christina Lee; David Frim, MD, PhD;
Scott Hunter, PhD; Martin Oliveria, PhD;
Kristen Kasza, PhD

AANS SECTION ON HISTORY

2:45–5:30 PM

Moderator

Samuel H. Greenblatt, MD; Charles J.
Prestigiacomo, MD, FACS

SYMPOSIUM

History of Psychosurgery

2:45–4:00 PM

Egaz Moniz and Early Beginnings of Lobotomy

2:45–3:05 PM

Speaker

Joao (John) Lobo Antunes, MD, PhD

Rise and Decline of Lobotomy in the United States

3:06–3:25 PM

Speaker

Elliot S. Valenstein, PhD

European Experience in Lobotomy

3:26–3:45 PM

Speaker

Gerhard M. Friehs, MD

DISCUSSION

3:45–4:00 PM

PRESENTATION OF THE VESALIUS AWARD

4:01–4:05 PM

Introduction

Setti S. Rengachary, MD

Recipient

Chaim B. Colen, MD, PhD

817

4:06–4:15 PM

Victor Horsley's Operations at Queen Square in the 19th Century

Author

Michael Powell, MD

818 4:16–4:25 PM

The Genesis of the Use of Corticosteroids in the Treatment and Prevention of Brain Edema

Authors

Shearwood McClelland, III, MD; Donlin M. Long, MD, PhD

819 4:26–4:35 PM

Vesalius Award

Charles-Édouard Brown-Séquard: An Eccentric Genius”

Author

Chaim B. Colen, MD, PhD

820 4:36–4:45 PM

Abnormal Muscle Response in Microvascular Decompression for the Hemifacial Spasm

Authors

Tetsuya Goto, MD, PhD; Kazuhiro Hongo, MD; Kunihiro Kodama, MD; Yuichiro Tanaka, MD

821 4:46–4:54 PM

Neurosurgery’s First Technology: Paul Broca and Craniocerebral Topography

Authors

Tejas Sankar, MD; Mark C. Preul, MD

822 4:55–5:04 PM

The Hemorrhage That Changed History: The Death of American Revolutionary War Hero Nathaniel Greene

Authors

Christopher M. Owen, MD; Mark E. Linskey, MD

823 5:05–5:14 PM

The Influence of Peripheral Nerve Injuries (PNI) During World War I (WWI) on the Development of Neurosurgical Specialism

Author

William C. Hanigan, MD

824 5:15–5:24 PM

Centennial of Pituitary Tumor Surgery: Origins in Chicago

Authors

James L. Stone, MD, FACS; Edward R. Laws, MD, FACS

QUESTION AND ANSWER

5:25–5:30 PM

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