

7:30 – 9:30 AM

## Breakfast Seminars

101

### How I Do It: Acoustic Tumors

**Moderator:**

Madjid Samii

**Panelists:**

Kalmon D. Post

L. Dade Lunsford

Howard M. Eisenberg

The principles of selecting a suitable approach, techniques and tactics of removing brain tumors from their specific compartments will be described.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Identify the indications of operative treatment
- Apply technical details of acoustic tumor surgery
- Avoid complications and study the outcome of the surgery and radiosurgery

102

### Recent Clinical Developments in Endoscopic Surgery of the Spine

**Moderator:**

Kevin T. Foley

**Panelists:**

Tim E. Adamson

Mick J. Perez-Cruet

Daniel Rosenthal

This seminar will focus on endoscopic and minimally invasive techniques for cervical, thoracic and lumbar spine

surgery. Techniques for decompression and fusion will be discussed.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Describe various endoscopic and minimally invasive techniques for spinal surgery
- Discuss the indications, results and potential complications for these techniques

103

### Lumbar Spine Fusion: Indications, Patient Selection and Current Techniques

**Moderator:**

Joan Frances O'Shea

**Panelists:**

Andrew T. Dailey

Gerald E. Rodts

James G. Lindley

The seminar describes and discusses the issues of patient selection, surgical indication, and surgical techniques as they pertain to lumbar fusion. A global approach will be provided.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Identify the fundamentals of the surgical decision-making process
- Discuss factors involved with patient selection
- Distinguish the surgical strategies and their relative indications, as well as their pros and cons

104

### History of Neurosurgical Hemostasis

**Moderator:**

T. Forcht Dagi

**Panelists:**

James Goodrich

Setti Rengachany

**Learning Objectives:** TBA

105

### Treatment Dilemmas of Cavernous Malformations

**Moderator:**

Daniele Rigamonti

**Panelists:**

Helmut Bertalanffy

R. Michael Scott

Participants will review current concepts on phenotype and genotype spectrum of cavernous malformations and be able to articulate management paradigms for lesions with various clinical presentations.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Review the biology of these lesions
- Recommend treatment recommendations based on natural history
- Select appropriate treatment modalities

106

### Functional Mapping of the Cerebral Cortex: Advantages and Limitations

**Moderator:**

Isabelle M. Germano

**Panelists:**

G. Rees Cosgrove  
Randy Lynn Jensen  
George A. Ojemann

All aspects of methods of functional mapping for neurosurgery will be discussed including removal of brain tumors, vascular lesions and epilepsy for awake and asleep patients.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Identify and work within eloquent areas of the brain
- Discuss the technologies available to localize eloquent cortex, how this can enhance the safety of the surgery, and what are their limitations

## 107

### Chiari Malformations: Diagnosis Treatments, and Failures

**Moderator:**

David M. Frim

**Panelists:**

Harold J. Pikus  
Yoshinobu Iwasaki  
David Gordon McLone

This seminar will focus on the pathophysiology of Chiari malformations, the indications for treatment and the therapeutic options and the basis of their success and failure.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Describe the current concepts of the pathophysiology of Chiari malformations
- Recognize the indications for treatment of Chiari malformations
- Discuss the options for treatment of Chiari malformations

## 108

### Coil vs. Clip in Posterior Circulation Aneurysms

**Moderator:**

Arthur L. Day

**Panelists:**

Van V. Halbach  
Robert H. Rosenwasser  
Daniel L. Barrow

The seminar will highlight the current controversies surrounding the optional

management of ruptured and unruptured intracranial aneurysms. Experts in the field will present their perspectives, experience and ideas for future study.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Analyze individual patients and make more informed treatment recommendations
- Synthesize available data and determine their significance
- Assess treatment failures
- Assemble appropriate strategies for salvage

## 109

### Coil vs. Clip in Anterior Circulation Aneurysms

**Moderator:**

L. N. Hopkins, III

**Panelists:**

Ralph G. Dacey  
Robert E. Harbaugh  
Stanley L. Barnwell

This seminar will highlight the current controversies surrounding the optional management of ruptured and unruptured intracranial aneurysms. Experts in the field will present their perspectives, experience, and ideas for future study.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Analyze individual patients and make more informed treatment recommendations
- Synthesize available data and determine their significance
- Assess treatment failures
- Assemble appropriate strategies for salvage

## 110

### Treatment of Complex Regional Pain Syndrome and Hyperhidrosis

**Moderator:** J. Patrick Johnson**Panelists:**

Kim J. Burchiel  
Joshua Prager  
Vincente Vanaclocha

This seminar will present current management concepts and emerging state-of-the-art techniques and technology to treat symptomatically mediated

disorders that include complex regional pain syndrome and hyperhidrosis.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Recognize and diagnose complex regional pain syndrome
- Describe treatment options for complex regional pain syndrome
- Discuss current treatment of hyperhidrosis

## 111

### Improving Your Bottom Line in Today's Neurosurgical Practice

**Moderator:**

A. Lee Greiner

**Panelist:**

Mark Mason  
Bill Hamilton  
Susan Powell

This seminar will address why income in many practices is dropping due to poor reimbursement, the increasing number of uninsured, rising malpractice costs, increasing competition from orthopedic spine surgeons, and the rising cost of doing business.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Appraise techniques employed by managing partners of large neurosurgical practices to reduce overhead
- Manage personnel and develop innovative ways to increasing the bottom line

## 112

### Controversies in the Management of Intracerebral Hematomas

**Moderator:**

Julian T. Hoff

**Panelists:**

Henry W.S. Schroeder  
Mario Zuccarello  
Shigeaki Kobayashi

The pathophysiology of spontaneous intracerebral hemorrhage will be described as well as current treatment options. Recent ongoing clinical trials for treatment of ICH patients will be discussed.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Describe the pathophysiology of ICH

- Recognize current treatment options
- Choose the best treatment currently available for individual patients

## 113

### Advances in Carotid Disease: Surgery vs. Endovascular Therapy

#### Moderator:

Christopher M. Loftus

#### Panelists:

Shunro Endo

Joshua B. Bederson

This session will explore the risk/benefit ratio for high-risk carotid surgery.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Identify high-risk cases
- Recommend appropriate cases for surgery
- Discuss the limits of endovascular treatment

## 114

### Endoscopic Management of Intraventricular Lesions

#### Moderator:

David F. Jimenez

#### Panelists:

Paul A. Grabb

Charles Teo

John G. Frazee

The goals of this seminar are to present method and results of endoscopic techniques in the management of craniotomies and to discuss effective methods for treating older children with craniostylosis and management of complex syndromes cases.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Describe endoscopic approaches to craniostylosis management
- Discuss ways to treat older children with craniostylosis
- Describe approaches to syndromes craniostylosis

## 115

### Current Treatment Options for Pediatric Epilepsy

#### Moderator:

Glenn Morrison

#### Panelists:

James T. Rutka

Johannes Schramm

Frederick A. Boop  
Shenandoah Robinson

This seminar will integrate the basic workup of the patients with intractable epilepsy and the appropriate surgical procedure. An interactive discussion concerning technical approaches and complications will be presented.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Define intractable epilepsy in childhood and the therapeutic options available
- Discuss Video EEG, ictal-SPECT, PET, MEG
- Describe the non-surgical options: medications, ketogenic diet

## 116

### Cutting Edge Strategies for Spine Stabilization

#### Moderator:

Regis W. Haid, Jr.

#### Panelists:

Joseph T. Alexander

F. A. Porchet

Brian R. Subach

This seminar will focus on novel cutting edge strategies for spine stabilization. A talk will specifically focus on an update on artificial arthroplasty/disc replacement. The next topic will include the use of the absorbable and non-absorbable polymers for spine stabilization. Lastly, a current overview of BMP use for spinal fusion will be discussed. Current FDA issues of all of these items will also be considered.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Identify the indications of contra-indications for artificial disc implantation
- Describe the current use of absorbable and non-absorbable polymers for spinal stabilization
- Discuss the current use of BMP for spinal arthrodesis

## 117

### Anatomy, Surgical Treatments and Risks of Third Ventricle Tumors

#### Moderator:

Michael L. J. Apuzzo

#### Panelists:

Jeffrey N. Bruce

David F. Jimenez

Nicolas de Tribolet

This seminar will focus on posterior of third ventricle tumors with aspects of modern strategies for management.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Manage the issues attended to third ventricle tumors
- Discuss surgical issues
- Describe radiosurgical role

## 118

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

#### Moderator:

Richard G. Fessler

#### Panelists:

Robert E. Isaacs

Maurice M. Smith

Luiz Pimenta

This seminar will focus on 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 seminar, participants should be able to:

- Describe technologies available to the neurosurgeon
- Compare available technologies

N+PA

## 119

### Brain Attack: Revolutionary Strategies in the Prevention and Treatment of Strokes

#### Moderator:

Warren R. Selman

#### Panelists:

Fady T. Charbel

Robert A. Mericle

*AANS has applied for nursing contact hours.*

This seminar will provide didactic presentations on the pathophysiology, diagnosis and treatment of acute stroke or brain attack. An interactive format will foster discussion of both lecture material and case presentations between attendees and presenters

**Learning Objectives:** After completing this seminar, participants should be able to:

- Define a view of the disease “stroke” as a “brain attack”
- Describe the major types of brain attacks

## 120

### Contemporary Treatment Option of Cervical Disc Disease

**Moderator:**

Fremont P. Wirth

**Panelist:**

Hiroshi Nakagawa

This seminar will evaluate the surgical management options for herniated cervical discs. The rationale for selection of anterior and posterior approaches and available techniques will be explored.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Evaluate the various treatment options
- Compare and contrast the different surgical approaches
- Translate this information to their surgical practice

## 121

### Third Ventriculostomy: Indications, Techniques and Outcomes

**Moderator:**

Alan R. Cohen

**Panelists:**

Nakamasa Hayashi

Michael R. Gaab

Experienced panelists will discuss the indications for endoscopic third ventriculostomy and the techniques available for performing this procedure. Emphasis will be placed on complication avoidance and management.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Recognize the indications for endoscopic third ventriculostomy
- Assess the technical nuances in performing the procedure
- Identify operative pitfalls and how to avoid them

## 122

### Adult and Pediatric Surgical Treatments for Scoliosis and Risks

**Moderator:**

Christopher I. Shaffrey

**Panelists:**

Stephen L. Ondra

Robert F. Heary

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 seminar, 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

## 123

### Wireless Medical Record Imaging

**Moderators:**

Richard D. Bucholz

Neil A. Martin

**Panelists:** TBA

**Learning Objectives:** TBA

N+PA

## 124

### Malignant Brain Tumors: State-of-the-Art Treatment

**Moderator:**

Mitchel S. Berger

**Panelists:**

Andrew T. Parsa

Manfred Westphal

Matthew G. Ewend

*AANS has applied for Nursing Contact Hours.*

The seminar will describe the advances in the diagnosis and management of malignant brain tumors.

**Learning Objectives:** After completing this seminar, participants should be able to:

- Describe the pathway of malignant tumor growth

- Describe which therapeutic strategies are available for patients
- Discuss diagnostic tests for brain tumor patients

## 125

### Media Training

*Complimentary to AANS Members*

*CME Credit will not be given for this seminar.*

**Moderator:**

Patricia Clark

Journalists nationwide are turning to neurosurgeons now more than ever to comment on issues including medical liability reform, surgery for conjoined twins, the effects of roller coasters on the brain and even treatment options for low back pain, neck pain, carpal tunnel syndrome, epilepsy, hydrocephalus and more.

A seasoned media trainer will walk AANS neurosurgeon members through a two-hour media training session offering talking points and common tips for working with the media. Participants will learn how to develop, tailor and deliver their message to an audience just in time for their next print, radio or television interview.

9:45 AM – 1:00 PM

## Plenary Session I

**Moderators:** William T. Couldwell and Roberto C. Heros

### Welcome

9:45 – 9:50 AM

**Speaker:** William T. Couldwell

### Special Lecture I

**The Richard C. Schneider Lecture**

9:50 – 10:30 AM

**Introduced By:** A. John Popp

**Speaker:** Regis W. Haid, Jr.



Dr. Haid received his undergraduate degree in 1978 from the University of Notre Dame with majors in philosophy and theology, and a minor in classical literature. He

earned his MD at West Virginia University, where he also completed his internship and neurosurgical residency. In 1988-89 he was Clinical Instructor at the University of Florida, where he also completed a one-year Fellowship in spine surgery. He served in the United States Air Force at Wilford Hall Medical Center in San Antonio, Texas from 1989-93. He joined the faculty at Emory University, Atlanta, Georgia in 1993 as Associate Professor, and was promoted to Professor in 2001. During that time, he was Director of the Spinal Fellowship Program. In 2003, he was a founding partner of Atlanta Brain and Spine Care and is Medical Director of the Piedmont Spine Center, Atlanta, Georgia.

A renowned educator, Dr. Haid has been visiting professor at more than 20 universities worldwide. He has been a Course Director more than 60 times, lectured at over 90 Spinal Courses, and presented over 300 papers. As a widely published author, Dr. Haid has contributed over 100 scientific articles to peer-reviewed journals, is presently editing his seventh textbook, and has written more than 50 chapters on the treatment of spinal disorders.

Dr. Haid has served on the Editorial and Review Boards of several leading journals, including *Journal of Neurosurgery*, *The Journal of Neurosurgery-Spine*, *Neurosurgery*, *Spine*, *The Spine Journal*, *Journal of Spinal Disorders*, *Neuro-orthopaedics*, *Spinal Surgery*, *Surgical Neurology*, and *Clinical Neurosurgery*.

His research interests include spinal reconstruction techniques, with a number of patents and implants concerning such techniques as cervical lateral mass plating, anterior cervical plating, posterior and transforaminal lumbar interbody fusion techniques, and cervical arthroplasty.

Dr. Haid is also an active member and leader within several professional neurosurgical and spinal societies, including, the American Association of Neurological Surgeons, the Congress of Neurological Surgeons, the North American Spine

Society, the Neurosurgical Society of America, and the Cervical Spine Research Society. He is currently the Chairman of the Joint Section on Disorders of the Spine and Peripheral Nerve.

He has also served on the Board of Directors of the Think First Foundation, as well as the Foundation for International Education in Neurological Surgery (FIENS) and the International Meeting of Advanced Spine Techniques (Scoliosis Research Society).

## 701 10:30 – 10:45 AM

### Bone Marrow-Derived Stem Cells in the Treatment of Human Gliomas

**Author:** Frederick F. Lang, Jr.

**Discussant:** Mitchel S. Berger

## 702 10:45 – 11:00 AM

### Frame-Based Stereotactic Biopsy Remains in Important Diagnostic Tool with Distinct Advantages over Frameless Stereotactic Biopsy

**Authors:** Justin S. Smith, Alfredo Quinones-Hinojosa, Michael W. McDermott

**Discussant:** Mark Bernstein

## 703 11:00 – 11:15 AM

### Metastatic Spinal Cord Compression: A Randomized Trial of Direct Decompressive Surgical Resection Plus Radiotherapy vs. Radiotherapy Alone

**Authors:** Phillip A. Tibbs, William F. Regine, A. Byron Young, Steven Saris, Richard Payne, Richard J. Kryscio, Roy A. Patchell

**Discussant:** Ziya L. Gokaslan

### New Board-Certified Member Recognition 11:15 – 11:18 AM

**Presented By:** A. John Popp

### 14th World Congress of Neurological Surgery Introduction 11:18 – 11:26 AM

**Presented By:** A. John Popp

## Research Foundation Recipients Presentation

11:26 – 11:30 AM

**Presented By:** Julian T. Hoff

## 704 11:30 – 11:45 AM

### The Long Term Population-Based Survival Analysis of Ruptured Cerebral Aneurysms Treatment with Surgical Clipping in the State of Washington, During the Period 1987 – 2001

**Authors:** Gavin W. Britz, David Newell, Arthur Lamm, Joseph Eskridge, David Flum

**Discussant:** Bob S. Carter

## 705 11:45 AM – 12:00 PM

### Rathke Cleft Cysts – A Significant Challenge in Transsphenoidal Surgery – Review of 75 Patients

**Authors:** Adam S. Kanter, Alfa O. Diallo, Mary Lee Vance, Edward R. Laws, Jr.

**Discussant:** Martin H. Weiss

## 706 12:00 – 12:15 PM

### Evaluation of an Antimicrobial Impregnated Shunt System for the Treatment of Hydrocephalus

**Authors:** Narendra Nathoo, Soma T. Govender, Gene H. Barnett, James R. van Dellen

**Discussant:** David F. Jimenez

## Distinguished Service Award Presentation

12:15 – 12:20 PM

**Presented By:** A. John Popp



**Recipient:**  
John A. Kusske

Dr. Kusske is Professor of Clinical Neurosurgery at the University of California, Irvine, California. He graduated from

the medical school of the University of California, San Francisco in 1963. He completed a surgical internship at the UC

Hospitals in San Francisco as well as a year of surgical residency. He served two years in the medical corps of the U.S. Army. After completing Army service, Dr. Kusske completed a five-year neurosurgical residency at the University of Washington in Seattle. Dr. Arthur A. Ward was the program chairman. Dr. Kusske then joined the neurosurgical faculty at the just opened University of California, Irvine in July 1972. He was the program director for the neurosurgical residency at UCI from February 1980 throughout December 1984. He was named Professor of Surgery at UCI in July 1982. During that time, Dr. Kusske had an active research laboratory studying the neural networks that function in the spread of Epileptiform discharge in various experimental epilepsy models. In January 1985 he joined a private practice group in Orange County California. He returned to the University of California in April 1998 where is in now the chief of neurosurgery at UCIMC and Chairman of the Department of Neurological Surgery.

Over the last several years Dr. Kusske has developed an intense interest in the socioeconomic aspects of the practice of neurological surgery. He has written extensively about the managed care industry and its effects on the practice of neurological surgery. In addition, he has served for several years on the Washington Committee for Neurosurgery and has written about the various regulatory mechanisms that affect neurosurgeons including the EMTALA laws, Stark regulations and various aspects of fraud and abuse. Dr. Kusske has also served on the Board of Directors of the AANS and in 2001 served as Vice President of the organization. Dr. Kusske is presently the chairman of the External Review Entity Accreditation Committee of the Institute of Medical Quality. This is a pioneering effort and it represents the first entity in the United States that accredits external review organizations who review denials by HMO's for specific treatments for HMO patients.

## Presidential Address

**12:20 – 1:00 PM**

**Introduced By:** Robert A. Ratcheson



**Presented By:**  
A. John Popp

A. John Popp is a native of Perry, New York. His undergraduate work was completed at the University of Rochester. He received his M.D. from Albany Medical College. During medical school, he was awarded a fellowship that allowed him to spend three months in the Philippines studying parasitic illnesses and the delivery of medical care to the indigent. Interest in tropical diseases and the Orient led to an internship at the Queen's Hospital in Honolulu. Dr. Popp subsequently completed one year of general surgery residency training under Dr. Charles Eckert at the Albany Medical Center Hospital. Thereafter, he was commissioned captain in the U.S. Air Force and served as a surgeon at the Tachikawa Air Force Hospital, Japan. Upon completion of his military service, Dr. Popp returned to Albany Medical Center to undertake his neurosurgical residency training under the direction of Drs. Richard Lende and Robert Bourke.

After completing residency training, Dr. Popp was named assistant professor of surgery at Albany Medical College. At this time, he was also named head of neurosurgery at the Albany Veterans Administration Hospital. Dr. Popp was appointed to his current position as the first Henry and Sally Schaffer Chairman of the Department of Surgery in 1986. In addition to his position as department chairman, Dr. Popp is the director of the Neurosciences Institute at Albany Medical Center, the Program Director for Albany Medical Center's Neurosurgery Residency Training Program and he also serves as Surgeon-in-Chief of the Albany Medical Center Hospital.

Prior to assuming the presidency of the American Association of Neurological Surgeons (AANS) this year, Dr. Popp served the AANS as vice president, chair of the organization's Washington Committee and editor-in-chief of the AANS Bulletin. He is currently treasurer of the Society for Neurological Surgeons, president of the Hudson/Mohawk Clinical Neurosciences Society and serves on the certifying board for neurosurgery — the American Board of Neurological

Surgery. He is a member of the Steering Committee for a grant evaluating outcomes following carotid endarterectomy funded by the AHRQ.

Previously, he served as president of the New York State Neurological Society and as Chairman of the New York State Delegation to the Council of State Neurological Societies. He was an advisor for a National Science Foundation study on ethics and experimental design and the recipient of grants from the NIH for the study of neurogenic lung failure and traumatic injury to the central nervous system. He was the editor-in-chief of "A Guide to the Primary Care of Neurological Disorders" — a textbook designed to assist primary care physicians in managing patients with neurological disorders.

An active clinician, Dr. Popp specializes in microsurgery for the treatment of aneurysms, vascular malformations, and brain tumors. The A. John Popp Chair in Neurosurgery was recently established, in Dr. Popp's honor by an endowment from the Henry and Sally Schaffer Foundation.

**1:00 – 2:00 PM**

## Lunch in the Exhibit Hall

**1:00 – 2:45 PM**

## Young Neurosurgeons Luncheon Session

**Speakers:** A. Leland Albright and Nathaniel W. Zinsser

**A. Leland Albright will speak on:**  
*Living Outside the Neurosurgical Box*



Dr. Leland Albright is Chief of Pediatric Neurosurgery at Children's Hospital of Pittsburgh. He was appointed Assistant Professor of Neurological

Surgery at the University of Pittsburgh in 1981 after serving as a Visiting Neurosurgeon at the Wallace Memorial Baptist Hospital in Pusan, Korea, and Assistant Professor of Neurological Surgery at the University of Louisville Health Sciences Center in Kentucky.

Dr. Albright earned his MD degree in 1969 at Louisiana State University, where he previously had received a Bachelor of Science degree. He completed an internship in medicine at Vanderbilt University Hospital in Nashville. After three years as Clinical Associate in Neurosurgery at the National Institutes of Health in Bethesda, Maryland, he completed the residency program in neurosurgery and a fellowship in immunopathology at the University of Pittsburgh Medical Center.

Dr. Albright has been a board-certified neurosurgeon since 1981. Four times in the past five years, the residents in the Department of Neurological Surgery have chosen him to receive their annual faculty teaching award.

He has published approximately 127 papers in refereed journals, 25 book chapters, and has edited three textbooks.

**Nathaniel W. Zinsser will speak on:**  
*Psychological Considerations for Excellence in Surgery*



Nate Zinsser is currently the Director of the Performance Enhancement Program at the United States Military Academy's Center for Enhanced

Performance. He earned his PhD in sport psychology at the University of Virginia and has since become an AAASP Certified Consultant and member of the US Olympic Committee's Sport Psychology Registry. Dr Zinsser also provides sport psychology training for athletes in the US Army's World Class Athlete Program, and has conducted workshops in performance enhancement for neurosurgeons, musicians and management teams. He is the author of *Dear Dr. Psych*, a sport psychology guidebook for youth sport athletes which won an American Library Association award, three textbook chapters on cognitive techniques for enhancing confidence, and numerous articles on applied sport psychology in trade publications.

**2:00 – 2:45 PM**

## Poster Viewing

- Cerebrovascular
- Neurotrauma and Critical Care
- General Interest
- History

**2:45 – 5:15 PM**

## Scientific Session I

**Moderator:** Henry Brem

### Invited Lecturer

**2:45 – 3:15 PM**

#### The Ronald L. Bittner Lecture

**Title:** The Pathogenesis of Human Brain Tumors: Clues from Disordered Neuroembryogenesis

**Speaker:** James T. Rutka



Born in Toronto, and educated at Princeton University (1975-1977), and Queen's University Medical School (1977-1981), Dr. Rutka completed

an internship at McGill University (1981-1982) before entering the University of Toronto Neurosurgery Training Program in 1982. His training included a research fellowship at the Brain Tumor Research Centre, the University of California San Francisco where he obtained his PhD in Experimental Pathology (1984-1987). Upon conclusion of his neurosurgical residency 1989, Dr. Rutka did a post-doctoral research fellowship in molecular immunology at Juntendo University, Tokyo (1990).

Dr. Rutka assumed his appointment in the Department of Surgery, Division of Neurosurgery in 1990, and has been on the surgical staff at the Hospital for Sick Children in the Division of Pediatric Neurosurgery since that time. Dr. Rutka's primary research and clinical interests relate to the science and surgery of human brain

tumors. His laboratory interests lie in the molecular biology of human brain tumors — specifically in the determination of the mechanisms by which brain tumors grow and invade. He has over 150 peer review publications. He is on the editorial boards of the *Journal of Neurosurgery* and *Neurosurgery*. He is Professor of Neurosurgery at the University of Toronto. He was appointed as the first Director of the Arthur and Sonia Labatt Brain Tumor Research Centre at the University of Toronto in 1998. In 1999, he received a Scientist Award from the Medical Research Council of Canada. This same year, Dr. Rutka was appointed Chairman of the Division of Neurosurgery at the University of Toronto, and sits in the Dan Family Chair of Neurosurgery. In 2001 Dr. Rutka received the Lister Award in the Department of Neurosurgery for sustained contributions to surgical research at the University of Toronto.

In 2002, Dr. Rutka was listed by *Globe and Mail* as one of the Nation Builders in Canada, in the section of Science and Technology. This same year, he was appointed to the Board of Directors of the AANS. His recent clinical and research interests have centered on the surgical treatment of epilepsy in children. Dr. Rutka is recognized by families for his compassionate care and by his residents for his accessibility, concern and high standards of personal and professional bearing. He was instrumental in the formation of B.r.a.i.n.child, a support group for families with children with brain tumors.

**707 3:15 – 3:30 PM**

### Changes in Myogenic Transcranial Motor Evoked Potential Responses During Intramedullary Spine Cord Tumor Resection Predicts Severity of Postoperative Motor Function

**Bittner Award Winner**

**Authors:** Alfred Quinones-Hinojosa, Russ Lyon, Gabriel Zada, Kathleen Lamborn, Nalin Gupta, Michael McDermott, Philip Weinstein

**Discussant:** Paul C. McCormick

**708 3:30 – 3:45 PM**

### Craniofacial Resections in the Elderly: An Outcome Study

**Authors:** Remi Nader, Stephen J. Hentschel, Amer Dastgir, Dima Suki,

David Callender, Franco DeMonte

**Discussant:** Isabelle M. Germano

## 709 3:45 – 4:00 PM

### Vaccination of Patients with Malignant Glioma with Tumor Lysate-Pulsed Dendritic Cells Elicits Antigen-Specific Cytotoxicity

**Authors:** John S. Yu, Christopher J. Wheeler, Gentao Liu, Han Ying, William H. Yong, Asha Das, Keith Black

**Discussant:** Maciej S. Lesniak

## 710 4:00 – 4:15 PM

### Safety of Convection Enhanced Drug Delivery in Functional Human Tissue: Experience from Phase I Studies

**Authors:** Sandeep Kunwar, Michael Prados, Susan Chang, Mitchel S. Berger

**Discussant:** Peter McL. Black

## 711 4:15 – 4:30 PM

### Inducible Anti-Excitotoxic Adenoviral Gene Therapy Improves Survival in a Nude Mouse Intracranial Human Glioma Model

**Authors:** Kyle Weaver, Kaleb Yohay, Raqeeb Haque, David Johns, Betty Tyler, Jeffrey D. Rothstein, Henry Brem

**Discussant:** Frederick F. Lang

## 712 4:30 – 4:45 PM

### Endocrine-Inactivity Pituitary Adenomas: Long-Term Outcomes Following Transsphenoidal Surgery

**Authors:** Edward F. Chang, Gabriel Zada, Charles B. Wilson, Sandeep Kunwar

**Discussant:** Kalmon D. Post

## 713 4:45 – 5:00 PM

### Have We Made Any Progress in the Treatment of Glioblastoma Multiforme? The Brigham and Women's Hospital Experience 1987 – 2001

**Authors:** Peter McL. Black, Thomas Picht, Elizabeth Blood, Ronghui Xu

**Discussant:** Raymond Sawaya

## 714 5:00 – 5:15 PM

### Craniotomy for Meningiomas in the United States, 1988 – 2000: Decreasing Mortality and the Effect of Hospital Volume

**Authors:** William T. Curry, Michael W. McDermott, Bob S. Carter, Fred G. Barker

**Discussant:** Beverly C. Walters

## 2:45 – 5:15 PM

### Scientific Session II

**Moderator:** Gerald E. Rodts

## 715 2:45 – 3:00 PM

### Corticospinal Regeneration into Lumbar Spinal Cord Correlate with Locomotor Recovery after Complete Spinal Cord Transection and Repair with Peripheral Nerve Grafts

**Authors:** Eve C. Tsai, Andrei Krassioukov, Charles H. Tator

**Discussant:** Christopher B. Shields

## 716 3:00 – 3:15 PM

### Long-term Outcome of Translaminar Facet Screw vs. Pedicle Screw Fixation: A Prospective Study

**Authors:** Sagun K. Tuli, Jayshree Tuli, Marc Eichler, Eric Woodward

**Discussant:** Regis W. Haid, Jr.

### Invited Lecturer

3:15 – 3:45 PM

**Title:** Innovations in Spine Surgery: Perception vs. Reality

**Speaker:** Edward C. Benzel

## 717 3:45 – 4:00 PM

### Surgical Outcome in Lung Cancer Patients with Hematogenous Metastases to the Spine: A Series of 53 Patients

**Authors:** Remi Nader, Amer Dastgir, Dima Suki, Neal G. Haynes, Ziya L. Gokaslan, Laurence D. Rhines

**Discussant:** Ehud Mendel

## 718 4:00 – 4:15 PM

### Neuroprotection after Acute Spinal Cord Injury through Inhibition of the Fas Apoptotic Pathway

**Authors:** Alun D. Ackery, Michael G. Fehlings

**Discussant:** Allan D. Levi

## 719 4:15 – 4:30 PM

### Preliminary Report of Olfactory Ensheathing Cell Transplantation for Amyotrophic Lateral Sclerosis (ALS)

**Authors:** Hongyun Huang, Hongmei Wang, Zheng Gu, Ying Li, Lin Chen, Yinglun Song, Wei Hao, Jian Zhang, Feng Zang

**Discussant:** Richard G. Fessler

## 720 4:30 – 4:45 PM

### Percutaneous Vertebroplasty and Kyphoplasty for Painful Vertebral Compression Fractures in Patients with Multiple Myeloma

**Authors:** Kevin C. Yao, Steven J. Hentschel, Daryl R. Fourney, Michael L. H. Wang, Laurence D. Rhines, Allen W. Burton, Ehud Mendel

**Discussant:** Richard D. Fessler, II

## 721 4:45 – 5:00 PM

### Prospective Comparison of Surgical Outcomes after Laminectomy with or without Instrumented Fusion for Lumbar Stenosis with Grade I Spondylolisthesis

**Authors:** Zoher Ghogawala, Edward C. Benzel, Sepideh Amin-Hanjani, Fred G. Barker, Frederick Harrington, Jr., Subu N. Magge, John Strugars, Juan Bartolomei, Jean-Valery Coumans, Lawrence F. Borges

**Discussant:** Gerald E. Rodts

## 722 5:00 – 5:15 PM

### A Biomechanical Comparison of Anterior and Posterior Stabilization Methods in the Atlantoaxial Instability

**Authors:** Jesse Lim, Sung-Min Kim, Josemaria Paterno, Tae-Jin Hwang,

Kun-Woo Lee, Raju Balabhadra,  
Daniel Kim

**Discussant:** Vincent C. Traynelis

**2:45 – 5:15 PM**

## Scientific Session III

**Moderator:** Richard D. Penn

**723 2:45 – 3:00 PM**

### Control of Stimulation Induced After Discharges by an Implantable Responsive Neurostimulator

**Authors:** Michael Munz, Robert D. Sweazey, Jennifer R. Shuherk, David Greene

**Discussant:** Robert K. Erickson

**724 3:00 – 3:15 PM**

### Subthalamic Stimulation for Essential Tremor

**Author:** Puneet Plaha

**Discussant:** Andres M. Lozano

**725 3:15 – 3:30 PM**

### Radiosurgery for Arteriovenous Malformations of the Basal Ganglia, Thalamus and Brainstem

**Authors:** Bruce E. Pollock, Deborah A. Gorman, Paul D. Brown

**Discussant:** Gary K. Steinberg

### Invited Lecturer

**3:30 – 4:00 PM**

**Title:** Decision-Making for Neurosurgical Treatment of Neuropathic Pain

**Speaker:** Mark P. Sindou

**726 4:00 – 4:15 PM**

### Acoustic Neuroma Radiosurgery: Summary of Experience in 829 Cases

**Authors:** L. Dade Lunsford, Ajay Niranjana, John C. Flickinger, Ann Maitz, Douglas S. Kondziolka

**Discussant:** Albert L. Rhoton

**727 4:15 – 4:30 PM**

### Optical Imaging of Human Epileptiform Activity

**Authors:** Michael M. Haglund, Daryl W. Hochman

**Discussant:** Steven Neal Roper

**728 4:30 – 4:45 PM**

### Gamma Knife Radiosurgery for Benign Cavernous Sinus Tumors: Quantitative Analysis of Treatment Outcomes

**Authors:** John S. Kuo, Joseph C. T. Chen, Cheng Yu, Vladimir Zelman, Steven L. Giannotta, Zbigniew Petrovich, Michael L. J. Apuzzo

**Discussant:** Ossama Al-Mefty

**729 4:45 – 5:00 PM**

### Inclusion of MRI in Clinical Criteria for Creutzfeldt-Jakob Disease (CJD) can Decrease the Need for Brain Biopsy

**Authors:** Alexander M. Papanastassiou, Michael D. Geschwind, Jennifer Martindale, Stephen J. DeArmond, Paul A. Garcia, David A. Gaskin, Jane H. Uyehara-Lock, Nicholas M. Barbaro, Bruce L. Miller, Mitchel S. Berger

**Discussant:** Gene H. Barnett

**730 5:00 – 5:15 PM**

### Reduction of MR-Related Heating in DBS Systems through the Use of Small-Diameter Concentric Loops

**Authors:** Kenneth B. Baker, Jan A. Tkach, John Hall, Massud Turbay, Matthew Oberdier, Frank Shellock, Ali R. Rezai

**Discussant:** Richard D. Penn

**2:45 – 5:15 PM**

## Scientific Session IV

**Moderator:** David M. Frim

**731 2:45 – 3:00 PM**

### Pediatric Sub-Specialization within American Neurosurgery, 1988 – 2001: A Population Based Study

**Authors:** Edward R. Smith, William E. Butler, Fred G. Barker

**Discussant:** Dale M. Swift

**732 3:00 – 3:15 PM**

### Surgical Management of Pediatric Cushing's Disease — Outcomes in 30 Patients

**Authors:** Alfa Diallo, David O. Okonkwo, Alan D. Rogol, Tord Alden, Edward R. Laws, Jr.

**Discussant:** Marion L. Walker

**733 3:15 – 3:30 PM**

### Surgical Treatment of Myelomeningocele: Hospitalization, Outcome and Cost Analysis

**Authors:** Anthony H. Sin, Mahmoud Rashidi, Anil Nanda

**Discussant:** Mark S. Dias

**734 3:30 – 3:45 PM**

### Quantification of Ossification Patterns and Pediatric Cervical Spine Development

**Authors:** Andrew V. Neykovsky, Cheryl A. Muszynski, Narayan Yoganandan, Frank A. Pintar

**Discussant:** Dachling Pang

**735 3:45 – 4:00 PM**

### Complications of the Interhemispheric Transcallosal Approach in Children

**Authors:** Kevin Yoo, Burak M. Ozgur, Henry Aryan, Rahul Jandial, Hal S. Meltzer, Michael L. Levy

**Discussant:** Andre Olivier

## Invited Lecturer

4:00 – 4:30 PM

**Title:** The Contribution of Craniofacial Surgical Techniques to the Management of Complex Facial and Skull Base Tumors: Techniques, Approaches and Pitfalls

**Speaker:** James T. Goodrich

## 736 4:30 – 4:45 PM

### The Association Between Tumor Resection and Survival in Pediatric Anaplastic Astrocytomas

**Authors:** Chirag D. Gandhi, Mark D. Kreiger, Michael L. Chen, Anthony Kim, J. Gordon McComb

**Discussant:** Robert A. Sanford

## 737 4:45 – 5:00 PM

### Mutations in the Sonic Hedgehog Pathway Enhance Medulloblastoma Indication

**Authors:** Howard L. Weiner, Maria Pompeiano, Avinash Mohan, Daniel H. Turnbull, Alexandra L. Joyner

**Discussant:** James T. Rutka

## 738 5:00 – 5:15 PM

### Lack of Ventricular Response on Head CT in Pediatric Shunted Patients with Surgery Proven Hydrocephalus

**Authors:** Keun-Young A. R. Kim, Chirag Gandhi, David Hohuan, Mark Krieger, J. Gordon McComb

**Discussant:** James M. Drake

## 2:45 – 5:15 PM

### Scientific Session V

**Moderator:** TBA

## 739 2:45 – 3:00 PM

### Basilar Apex Aneurysms: Comparison of Treatments in 97 Consecutive Patients

**Author:** Armond L. Levy

**Discussant:** Duke S. Samson

## 740 3:00 – 3:15 PM

### Carotid Endarterectomy in Nonagerarians

**Authors:** Quentin J. Durward, Thorir S. Ragnarsson, Ralph F. Reeder, Christopher A. Hughes, James L. Case

**Discussant:** Arthur L. Day

## 741 3:15 – 3:30 PM

### Analysis of Morphologic Factors of Arteriovenous Malformations Predictive of Pre-Treatment of Post-Treatment Hemorrhage or Radiological Success after Radiosurgery

**Authors:** Gregory J. Zipfel, Frank J. Bova, Patrick Bradshaw, William A. Friedman

**Discussant:** Demetrius K. Lopes

## 742 3:30 – 3:45 PM

### Quantifying Therapeutic Infusion Following Middle Cerebral Artery Occlusion

**Authors:** Peter J. Haar, Shi-Jian Chen, Frank D. Corwin, George T. Gillies, Eric K. Oberlander, Panos S. Fatouros, William C. Broadus

**Discussant:** R. Loch Macdonald

## 743 3:45 – 4:00 PM

### Symptomatic Intracranial Stenosis: NBSP: Endovascular Treatment with Stents

**Authors:** Pedro Lylyk, Daniel Rufenacht, Carlos Miranda, Angel Ferrario, Boris Pabón

**Discussant:** Robert F. Spetzler

## 744 4:00 – 4:15 PM

### Clot Volume and Clearance Rate as Independent Predictors of Vasospasm after Aneurysmal Subarachnoid Hemorrhage

**Authors:** Christopher Reilly, Chris Amidei, Jocelyn Tolentino, Babak S. Jahromi, R. Loch Macdonald

**Discussant:** Joshua B. Bederson

## 745 4:15 – 4:30 PM

### Heparin-Induced Thrombocytopenia in Patients with Subarachnoid Hemorrhage

**Authors:** Brian L. Hoh, Johnny C. Pryor, James D. Rabinov, Joshua A. Hirsch, Bob S. Carter, Christopher S. Ogilvy

**Discussant:** Philip E. Stieg

## Invited Lecturer

4:30 – 5:00 PM

**Title:** Changing Personal Practice Patterns in Cerebrovascular Surgery as a Result of Knowledge, Technology and Bad Experiences

**Speaker:** Roberto C. Heros

## 746 5:00 – 5:15 PM

### The Size of Ruptured M1 Lenticulostriate Aneurysms is Smaller than MCA Bifurcation Aneurysms

**Authors:** G. Edward Vates, Dong Kim, Arthur L. Day

**Discussant:** Robert A. Solomon

## 2:45 – 5:15 PM

### Scientific Session VI

**Moderator:** Raj K. Narayan

## 747 2:45 – 3:00 PM

### Correlation Between Brain Tissue Oxygen Tension and Mean Transit Time on Dynamic CT Perfusion

**Authors:** J. Claude Hemphill, Wade S. Smith, Diane Morabito, Geoffrey T. Manley

**Discussant:** Jaime S. Ullman

## Invited Lecturer

3:00 – 3:30 PM

**Title:** TBA

**Speaker:** Andrew I. R. Maas

**748 3:30 – 3:45 PM****Normobaric Hyperoxia Treatment of Human Brain Injury Alters the Balance between Cerebral Aerobic and Anaerobic Metabolism, Especially in the Most Severely Injured Patients**

**Authors:** Christos M. Toliás, Charlotte Gilman, Ross M. Bullock

**Discussant:** Paul Vespa

**749 3:45 – 4:00 PM****High PEEP=Level Affect Intracranial Pressure and Cerebral Oxygen Metabolism in Neurotrauma Patients Without Lung Injury**

**Author:** Sylvia Bele

**Discussant:** Brian T. Andrews

**750 4:00 – 4:15 PM****Focal Traumatic Cerebral Contusions: The Role of Apoptosis in the Peri-Ischemic Zone**

**Authors:** Narendra Nathoo, Pradeep K. Narotam, Devendra K. Agrawal, Catherine A. Connolly, James R. van Dellen, Gene H. Barnett, Runjan Chetty

**Discussant:** Alex B. Valadka

**751 4:15 – 4:30 PM****The Neurosurgical Experience at an Echelon 5 Facility During Operation Iraqi Freedom**

**Authors:** Jonathan E. Martin, Randy Bell, William T. Monacci, Ross R. Moquin, James M. Ecklung, Geoff S. Ling

**Discussant:** Mick J. Perez-Cruet

**752 4:30 – 4:45 PM****Atorvastatin Promotes Repair of Cerebral Microvasculature and Improves Spatial Learning Function in Rats Subjected to Traumatic Brain Injury**

**Authors:** Asim Mahmood, Dunyue Lu, Anton Goussev, Michael Chopp

**Discussant:** Lawrence H. Pitts

**753 4:45 – 5:00 PM****Cyclosporin Safety in Adult Patients in Severe Traumatic Brain Injury**

**Authors:** Jimmi Hatton, Bonnie Rosbolt, Byron Young

**Discussant:** Christopher B. Shields

**754 5:00 – 5:15 PM****Evolution of Tissue Injury Underlying Acute Traumatic Subdural Hematoma**

**Authors:** Roman Hlatky, Maria Briones, Yavuz Silay, Alex B. Valadka, Claudia S. Robertson

**Discussant:** Kimberly A. Page

**AANS Business Meeting  
5:30 – 6:30 PM**

Ageless Airboat Tours

Orlando/Orange County Convention & Visitors Bureau, Inc.