

Be part of the nation's most exciting cranial, spine and nerve meeting, located at the beautiful Silvertree Hotel in Snowmass Village, Colorado.

Objectives

- Intended audience:** neurosurgeons, orthopaedic surgeons, neurosurgical residents, fellows, nurse practitioners and physician assistants
- After completing this educational activity participants should be able to:
- Summarize the minimalist approach to ordinary and extraordinary cranial and spinal surgery.
 - Review neurocritical care issues in cranial and spinal patients.
 - Examine the application of radiosurgery for the treatment of intracranial pathologies.
 - Discuss various treatment modalities for intracranial neoplasms including medical management, surgery and radiation.
 - Discuss the treatment options for lesions of the skull base including surgical techniques.
 - Assess the treatment of arteriovenous malformations of the brain.
 - Compare and contrast endovascular treatment of cerebrovascular lesions.
 - Review deep brain stimulation for the treatment of movement disorders as well as pain and psychiatric disorders.
 - Review transphenoidal endoscopic treatment for lesions of the sella and parasellar region
 - Assess and evaluate kyphoplasty and vertebroplasty.
 - Describe the latest technologies for cervical and lumbar arthroplasty.
 - Evaluate the treatment of spinal deformity and traumatic spinal injury.
 - Summarize and evaluate the treatment of minimally invasive spinal surgery.
 - Assess motion preservation techniques in spinal surgery.
 - Discuss and evaluate the treatment of peripheral nerve injuries and tumors.
 - Review and evaluate the treatment of degenerative spinal disease.

CME
This activity has been planned and implemented in accordance with the Essential and Standards of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the AANS and the Mayfield Clinic. The AANS is accredited by the ACCME to provide Continuing Medical Education for physicians.

The AANS designates this educational activity for a maximum of 25.5 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Monday, February 26, 2007

7:00 - 9:30am: Cerebrovascular

Moderator: Phillip V. Theodosopolous, MD

Surgical and Endovascular AVM Therapy
Robert H. Rosenwasser, MD, FACS, FA

Natural History and Treatment of AVMs
Andrew J. Ringer, MD

Imaging Characteristics of Vascular Malformations
Todd A. Abruzzo, MD

Current Techniques in AVM Embolization
Henry H. Woo, MD

Radiosurgery for Brain AVMs
Michael J. Link, MD

Surgery for Brain AVMs
Mario Zuccarello, MD & Troy D. Payner, MD

Endovascular Management of Dural AV Fistulae
Richard Klucznik, MD

Treatment of Cavernous Malformations
Gavin W. Britz, MD

Case Discussion

4:00 - 6:30pm: Functional/Neurocritical

Moderator: Jeffrey T. Keller, PhD

DBS for Movement Disorders
Richard K. Simpson, Jr, MD, PhD

DBS for Pain & Dystonia
Claudio A. Feler, MD & Dudley H. Davis, MD

DBS: Not Just for Movement Disorders
George T. Mandybur, MD, FACS

Pathophysiology of Deep Brain Stimulation
Kendall Lee, MD, PhD

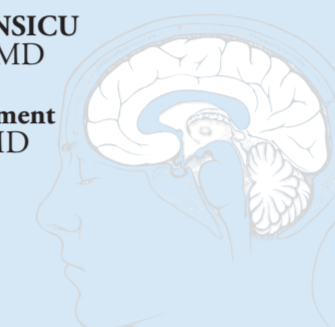
Use of Invasive Recordings in Epilepsy Surgery
William E. Bingaman, Jr, MD

Current Treatment of TBI
Lori A. Shutter, MD, PT and Raj K. Narayan, MD

Critical Issues in the NSICU
Michael DeGeorgia, MD

Intraop CPP Management
Lindsey A. Nelson, MD

Case Discussion



Tuesday, February 27, 2007

7:00 - 9:30am: Neuro-oncology

Moderator: Andrew J. Ringer, MD

Molecular Targets in Brain Tumor Treatment
Phil H. Gutin, MD

Brachytherapy for Metastases and GBM
Christopher M. McPherson, MD

Questionable Cancer Therapies: Review
Glen Stevens, DO, PhD

MRI Tractography for Tumor Surgery
Alice Patton, MD

Convection Therapy for GBM
Michael A. Vogelbaum, MD, PhD, FACS

Immunotherapy for Malignant Brain Tumors
David W. Andrews, MD

Childhood Medulloblastoma
Corey Raffel, MD, PhD

Case Discussion

4:00 - 6:30pm: Skull Base Surgery

Moderator: Christopher M. McPherson, MD

Skull Base Surgery: Heroes and Villains
Harry R. Van Loveren, MD

Endoscopic Transphenoidal Surgery - ioMRI
Phillip V. Theodosopolous, MD

Learning the Endoscopic Transphenoidal Approach
Jeremy D. Greenlee, MD

FTOZ vs Frontotemporal Approach
Sebastian Froelich, MD

Tentorial Alignment in CP Angle Surgery
Joung H. Lee, MD

Chiari I Malformation: Top Ten Issues
John J. Oro, MD

Venous Anatomy of the Skull Base
Jeffrey T. Keller, PhD

Strategies for the Uncoilable Basilar Aneurysm
Siviero Agazzi, MD

Case Discussion



Wednesday, February 28, 2007

7:00 - 10:00am: Legends in Neurosurgery

Moderator: Charles Kuntz, IV, MD

Introduction
Charles Kuntz, IV, MD

Evolution of Craniofacial Surgery
John A. Jane, Sr, MD, PhD

Anatomy and Approaches to the CP Angle
Glen Stevens, DO, PhD

Pathophysiology of Lumbar DDD
Charles D. Ray, MS, MD, FACS

Natural History of Cerebral Aneurysms
H. Richard Winn, MD

Evolution of Cervical Fusion and Fixation
Volker K. H. Sonntag, MD, FACS

Reflections on Peripheral Nerve Surgery
David G. Kline, MD

Treatment of Skull Base Meningiomas
John M. Tew, Jr, MD

4:00 - 6:30pm: Trauma / Deformity

Moderator: William D. Tobler, MD

Normal Adult Spinal Alignment
Charles Kuntz, IV, MD

Evaluation of Adult Deformity
Praveen V. Mummaneni, MD

Planning - Techniques for Correction
Stephen L. Ondra, MD

Spinal Deformity: Anatomy and Fixation
Robert J. Bohinski, MD, PhD

Teaching Spinal Surgery: Data
Andrew J. Losinieccki, MD

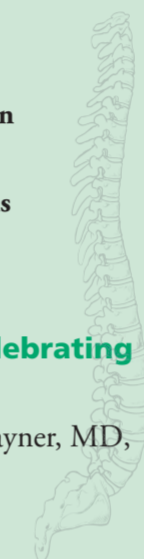
Computer Assisted Deformity Correction
Charles Kuntz, IV, MD

Spinopelvic Fixation and Fusion Options
Stephen L. Ondra, MD

Case Discussion

7:00 - 10:00: Winter Banquet Celebrating Dr. Tew's 70th

Roast: P. Colby Maher, MD, Troy D. Payner, MD, and Glenn Keiper, Jr, MD



Thursday, March 1, 2007

7:00 - 9:30am: Minimally Invasive Spine

Moderator: Robert J. Bohinski, MD, PhD

Minimally Invasive Decompression & Resection
Richard G. Fessler, MD, PhD

Minimally Invasive Fusion and Fixation
William D. Tobler, MD

Open Fusion and Fixation: A Better Option
Michael W. Groff, MD

Lumbar Microdiscectomy vs Sequestrectomy
Claudius F. C. Thomé, MD

Early Disk Recurrence after MIS
Douglas Chyatte, MD

Vertebroplasty at Mayo Clinic - 1000 Cases
P. Andrew Utter, MD

Mini-Open TLIF: Indications and Techniques
Praveen V. Mummaneni, MD

Case Discussion

4:00 - 6:30pm: Motion / Fusion

Moderator: Raj K. Narayan, MD

Cervical Arthroplasty: Review
William C. Welch, MD

Lumbar Fusion or Arthroplasty: Review
Richard G. Fessler, MD, PhD

Posterior Dynamic Stabilization: Review
Robert J. Bohinski, MD, PhD

Interspinous Distraction - Facet Replacement
Larry T. Khoo, MD

Cervical Multilevel Anterior Fusion
Rob G. Parrish, MD, PhD

Osteointegration of Implants
Edmund Frank, MD, FACS

Cervical: Anterior vs Posterior Decompression & Fusion
Mark Pichelmann, MD

Noninstrumented Fusion with BMP
Eric W. Nottmeier, MD

Case Discussion



Friday, March 2, 2007

7:00 - 9:30am: Peripheral Nerve

Moderator: Robert J. Spinner, MD

Resection of Brachial Plexus Tumors
David G. Kline, MD

Resection of Parascleral Tumors
John E. McGillicuddy, MD

Pathophysiology of Peripheral Nerve Injury
Eric L. Zager, MD

Nerve Entrapment: Outcomes
Robert J. Spinner, MD

Evaluation of Brachial Plexus Injuries
Bryan Tsao, MD

Brachial Plexus Injuries - Practical Facts
John E. McGillicuddy, MD

MRI of Peripheral Nerve
Robert J. Spinner, MD

Case Discussion

4:00 - 6:30pm: Degenerative Disease

Moderator: P. Colby Maher, MD

Spondylolisthesis - Primary Repair: Review
Atiq Durrani, MD

Spondylolisthesis - Fusion: Review
Michael W. Groff, MD

Spondylolisthesis - Fixation: Review
Daniel K. Resnick, MD

Treatment of Cervical Myelopathy
Bernard H. Guior, MD, FACS

Fusion for Low Back Pain
Daniel K. Resnick, MD

Presacral L5-S1 Intervertebral Fusion
William D. Tobler, MD

Complications of Cervical 360 Surgery
H. Gordon Deen, MD

Case Discussion



Lodging and Location

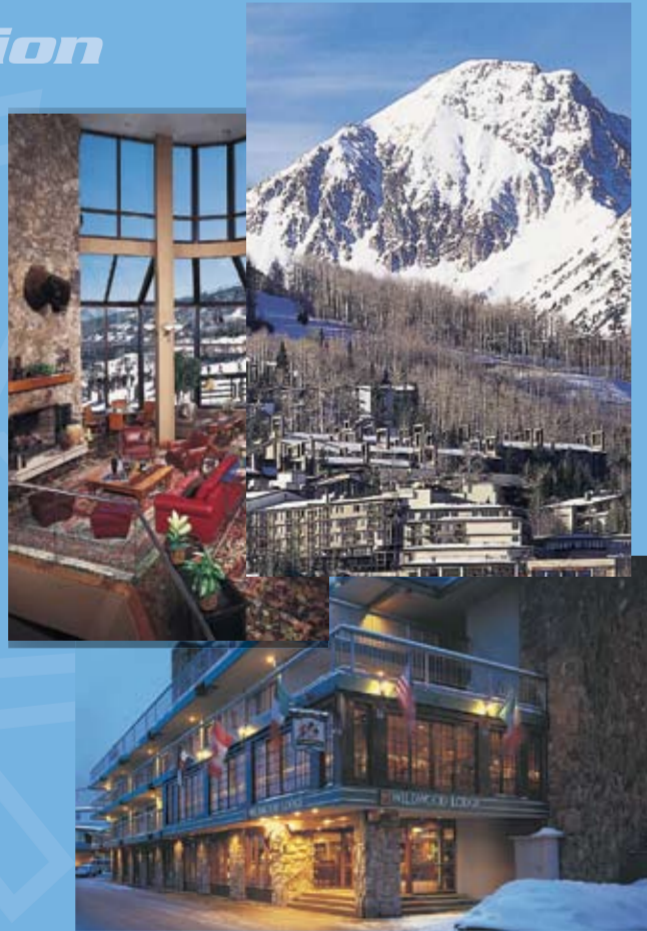
Snowmass Village is a beautiful resort area perfect for winter time fun. Nestled in the Colorado Rockies, Snowmass provides a serene backdrop for skiing, snowboarding, shopping, dining, and relaxing.

The Silvertree Hotel is the Village's only full-service, ski-in, ski-out hotel. Improvements this year include a remodel of all public areas of the hotel and the addition of high speed, wireless internet access throughout The Silvertree Hotel, Wildwood Lodge and the Snowmass Conference Center.

The Wildwood Lodge, offers the relaxed atmosphere and comfort of a mountain lodge. This year, the Wildwood Lodge staff is ready to welcome guests into the newly remodeled lobby and redecorated rooms.

Village Property Management Condominiums offers value-priced studios to spacious, private residences. Accommodations are available directly on the slopes or just a short shuttle ride away.

When you register, remember to make lodging reservations as well. Please call 800-525-9402. A limited number of rooms/condos have been reserved for those attending. The Winter Clinics. Reservations will be accepted based on availability.



Tuition	
Full Program	\$1300
Cranial Program Only (Feb. 26-27)	\$1100
Spinal Program Only (Feb. 28-Mar. 2)	\$1100
Residents/Fellows, Nurses, Physician Assistants (Full Program Only)	\$600

To register, visit www.winterclinics.com or call 1-800-325-7787. Registration deadline: February 10, 2007

Exhibitors*



Confluent Surgical • KLS-Martin, LP • Stryker

*as of December 5, 2006

Faculty

- Barrow Neurological Institute**
Volker K. H. Sonntag, MD, FACS
- Harborview Medical Center**
Gavin W. Britz, MD
- Harvard University**
Michael W. Groff, MD
- Indianapolis Neurosurgical Group**
Troy D. Payner, MD
- Louisiana State University**
David G. Kline, MD
- Mayo Clinic**
Dudley H. Davis, MD
H. Gordon Deen, MD
Kendall H. Lee, MD, PhD
Michael J. Link, MD
Eric W. Nottmeier, MD
Mark Pichelmann, MD
Corey Raffel, MD, PhD
Robert J. Spinner, MD
P. Andrew Utter, MD
Alice C. Patton, MD
- Memorial Sloan-Kettering Cancer Center**
Phil H. Gutin, MD
- Mount Sinai School of Medicine**
H. Richard Winn, MD
- Northwestern University**
Stephen L. Ondra, MD
- Oregon Health & Science University**
Edmund Frank, MD, FACS
- The Cleveland Clinic Foundation**
William E. Bingaman, Jr, MD
Michael De Georgia, MD
Joung H. Lee, MD
Glen H. J. Sireno, DO, PhD
Bryan Tsao, MD
Michael A. Vogelbaum, MD, PhD, FACS
Henry H. Woo, MD
- The Methodist Hospital**
Richard Klucznik, MD
Rob G. Parrish, MD, PhD
Richard K. Simpson, Jr, MD, PhD
- Thomas Jefferson University Hospital**
David W. Andrews, MD
Robert H. Rosenwasser, MD, FACS, FA
- University Hospital Mannheim**
Claudius F. C. Thomé, MD
- University of California, Los Angeles**
Larry T. Khoo, MD
- University of California, San Francisco**
Praveen V. Mummaneni, MD
- University of Chicago**
Richard G. Fessler, MD, PhD
- University of Cincinnati/Mayfield Clinic Cincinnati Children's Hospital Medical Center**
Todd A. Abruzzo, MD
Sebastian Froelich, MD
Andrew J. Losinieccki, MD
P. Colby Maher, MD
Lindsey A. Nelson, MD
Robert J. Bohinski, MD, PhD
Jeffrey T. Keller, PhD
Charles Kuntz, IV, MD
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- University of Michigan**
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- University of Missouri-Columbia**
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- University of Pittsburgh**
William C. Welch, MD
- University of South Florida**
Siviero Agazzi, MD
Bernard H. Guior, MD, FACS
Harry R. van Loveren, MD
- University of Tennessee**
Claudio A. Feler, MD
- University of Virginia**
John A. Jane, Sr, MD, PhD
- University of Wisconsin**
Daniel K. Resnick, MD
Douglas Chyatte, MD
Charles D. Ray, MS MD FACS

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Snowmass, Colorado
February 25 - March 2, 2007