### Thursday, April 20, and Friday, April 21

The Spetzler Symposium: State-of-the-art in Cerebrovascular, Skull Base, Craniovertebral Junction and Brain Tumor Surgery - A Scientific Tribute and Global Celebration  
*Separate Registration Required*  
AANS Member $500  
AANS Non-member $625  
Resident Member $350  
Resident Non-member $450  
Spouse/Guest Ticket for Friday, April 21 Dinner $155

### PRACTICAL CLINICS

Course fees identified after the course title.  
C&MS Fee indicates a reduced fee for Candidates (Residents or Fellows) and Medical Students.  
APP Fee indicates a reduced fee for Advanced Practice Providers (APPs), nurses, nurse practitioners (NPs) and physician assistants (PAs).

### Saturday, April 22

<table>
<thead>
<tr>
<th>Time</th>
<th>Course Title</th>
<th>Fee</th>
<th>C&amp;MS Fee</th>
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<tr>
<td>8 a.m.-5 p.m.</td>
<td>Full-day Practical Clinics</td>
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<tr>
<td>001</td>
<td>Introduction to Cerebrovascular Neurosurgery for Residents C&amp;MS Fee: $65 Non-CME Event</td>
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<td>002</td>
<td>Current Treatments and Controversies in Traumatic Brain Injury Fee: $600 APP Fee: $420</td>
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<td>003</td>
<td>St N Fe</td>
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| 8 a.m.-12 p.m. | Morning Practical Clinics  
| 004        | pancreaticc Cancelled                                                                                  | CANCELLED |          |
| 005        | Integrating Pain Management Into Your Neurosurgical Practice Fee: $1,500                              |     |          |
| 006        | Zen and the Art of Posterior Fossa Surgery Fee: $450 C&MS Fee: $65                                     |     |          |

### 6-8 p.m.

**Dinner Symposium**  
SE211 Advanced Practice Providers (APPs) Preventive Care: Planning Strategies for Your Long Term Retirement Goals  
Non-CME Event  
APP Fee: $75

### Sunday, April 23

<table>
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<th>Time</th>
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<th>Fee</th>
<th>C&amp;MS Fee</th>
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| 7 a.m.-4:30 p.m. | Special Programming  
| 017        | CPT Coding Update with ICD-10 for Neurosurgeons: Coding Concepts by Case Example Fee: $600 APP Fee: $420 C&MS Fee: $65 |
| 019        | You Are Never Too Old for Surgery: Spine Management in an Aging Population Fee: $600 APP Fee: $420 |

### 7:30-11:30 a.m.

**Morning Practical Clinics**

### 1-4 p.m.

**Special Programming**

SE133 Neurosurgeon-scientist Career Development Course Fee: $350 C&MS Fee: $65

### 1-5 p.m.

**Afternoon Practical Clinics**

010 Spinal Alignment: What Every Surgeon Needs to Know Fee: $450 APP Fee: $315

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012 RHOTON LECTURE SERIES: 3-D Anatomy and Approaches to the Supratentorial Area and Anterior Skull Base Fee: $450 C&MS Fee: $65

013 Brain Mapping and Awake Mapping Techniques Fee: $450 C&MS Fee: $65

014 Neurosurgical Care of Athletes - Concussion, Spine, Peripheral Nerve and Return-to-play Fee: $450 C&MS Fee: $65

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016 Microsurgical Management of Intracranial Aneurysms: Site-specific Surgical Anatomy, Operation Intervention and Complication Management Fee: $450 C&MS Fee: $65

007 Basics of Spinal Stabilization - Advanced Practice Providers (APPs)/Medical Students/Residents  
Fee: $650  
APP Fee: $455  
C&MS Fee: $65

008 Update on the Management of Spine and Spinal Cord Injury Fee: $450 APP Fee: $315

009 Emerging Technologies in Spine Surgery Fee: $650 APP Fee: $455 C&MS Fee: $65

### 7 a.m.-4:30 p.m.

**Full-day Practical Clinics**

017 CPT Coding Update with ICD-10 for Neurosurgeons: Coding Concepts by Case Example Fee: $600 APP Fee: $420 C&MS Fee: $65

019 You Are Never Too Old for Surgery: Spine Management in an Aging Population Fee: $600 APP Fee: $420

### 7:30-11:30 a.m.

**Morning Practical Clinics**

020 Endoscopic Lumbar Spinal Surgery: Cadaveric Hands-on Course Fee: $1,500

021 RHOTON LECTURE SERIES: 3-D Anatomy and Approaches to the Posterior Fossa and Posterior Skull Base Fee: $450 C&MS Fee: $65

022 Update on Tumors for the General Neurosurgeon I: Adult Gliomas and Metastases Fee: $450 C&MS Fee: $65

023 How to Launch a Career in Tumor Neurosurgery Fee: $450 C&MS Fee: $65

024 Negotiating Strategies in Neurosurgery Fee: $450

025 Laser Thermocoagulation - How, When and Why Fee: $450 APP Fee: $315 C&MS Fee: $65

Please keep this page for your records.
Sunday, April 23 (continued)

026 Deep Brain Stimulation: Update and New Directions
Fee: $450

027 Goodman Oral Board Review
Fee: $450
C&MS Fee: $65

12:30-4:30 p.m.
Afternoon Practical Clinics

028 CANCELLED

029 How to Tackle Difficult Cranial Cases: A Step-by-step, 3-D, Case-based Presentation
Fee: $450
C&MS Fee: $65

030 Update on Tumors for the General Neurosurgeon II: Skull Base, Pediatric and Spine Tumors
Fee: $450
APP Fee: $315
C&MS Fee: $65

031 Neurotrauma and Neurocritical Care for the Practicing Neurosurgeon: MOC Review and Update
Fee: $450
APP Fee: $315
C&MS Fee: $65

032 Practical and Technical Aspects of Transphenoidal Surgery
Fee: $450
C&MS Fee: $65

033 Alternatives to Transpedicular Approaches to Achieving Arthrodesis
Fee: $650
APP Fee: $455

034 Peripheral Nerve Injuries, Entrapments and Tumors: Examination and Evaluation
Fee: $450
APP Fee: $315
C&MS Fee: $65

035 Cranio-cervical and C1C2 Stabilization Techniques, Surgical Approaches
Fee: $650
APP Fee: $455
C&MS Fee: $65

BREAKEAST SEMINARS

Breakfast Seminar Fees
Fee: $100 per Seminar

Fee for Candidates (Residents or Fellows) and Medical Students: $65 per Seminar

Monday, April 24

7-9 a.m.
Breakfast Seminars

101 Practice Pearls for the Outpatient Neurosurgical Advanced Practice Provider

102 Skating to Where the Puck Will Be: Strategies for Neurosurgery Practices and Programs to Compete in Health Care’s Future

103 Surgical Approaches to the Lateral Skull Base

104 Challenging Spinal Cases: Pearls and Pitfalls

105 Cervical Spondylotic Myelopathy

106 Anticoagulation for the Neurosurgeon and Hemostasis in Neurosurgery

107 Return-to-play After Sports Injury I: Concussion

108 If I Could Do That Case Over Again: Discussion of Complications of Cranial Surgery

109 Resective Strategies for Epilepsy

110 Open vs. Endoscopic Approaches to the Anterior Skull Base

111 Peripheral Nerve Entrapment Syndromes

112 Adult Low-grade Gliomas

113 Complication Management and Avoidance in Vascular Neurosurgery

114 Fluorescence Technologies in Tumor Neurosurgery: Present and Future Directions

115 European Traditions in Neurosurgery: Origins, Differences, Similarities, Parallels and Interplay with American Neurosurgery

116 Neurosurgery Resident Wellness

117 CSNS – Adapting Your Practice for 2017 and Beyond

118 Advanced Lateral Transpsoas MIS Techniques: Expanding LLIF Indications

119 Emerging Indications in Neuromodulation Surgery

1:10-1:55 p.m.
Lunch-and-learn Seminars
Non-CME Events

SE201 How Expandable Technology Has Changed My Practice
Presented by Globus Medical

SE204 Endoscopic vs. Transcranial Approaches in Electrosurgery
Presented by Codman Neuro

SE205 PRESTIGE LP™ Cervical Disc Adjacent Two-Level Arthroplasty: Design Rationale, Surgical Technique and 7-Year Data Demonstrating Clinical Superiority
Presented by Medtronic

SE206 Advanced Techniques in Achieving Integrated Spinal Alignment
Presented by NuVasive, Inc.

SE207 Tritanium®: A Novel Highly Porous Titanium Alloy for Interbody Fusion Procedures
Presented by Stryker

1:10-2 p.m.

SE128 Neurosurgery In Press: Latest Results of Clinical Trials in Neurosurgery and Allied Fields

1:15-2:45 p.m.
Special Programming

SE126 Advanced Practice Providers (APPs) Luncheon
Fee: $25

6:30-8:30 p.m.
Dinner Symposium

SE129 Novel Techniques and Strategies to Treat Spine Disease in the Aging Population
Fee: $195

SE135 Surgical Microscopy: New Techniques and Technologies
Fee: $195

SE134 Advances in Wound Closure: Improving Patient Outcomes with New Products and Techniques
APP Fee: $85

6:30-9:30 p.m.

SE202 AANS Section on the History of Neurological Surgery Annual Dinner
Fee: $150
### Tuesday, April 25

**7-9 a.m.**

**Breakfast Seminars**

- **201** So I Want to Write a Neurosurgical Manuscript and Make Sure it Gets Published.
- **202** Return-to-play After Sports Injury II: Spine Injury
- **203** Chiari Malformations: Diagnosis, Treatments and Failures
- **204** Intracranial Endoscopy
- **205** Management of Acute Spinal Cord Injury
- **206** Pituitary Tumors
- **207** New Innovations in Epilepsy Surgery
- **208** Endovascular vs. Microsurgical Techniques for the Optimal Treatment of Intracranial Aneurysms
- **209** Cavernous Malformation: Current Controversies in Management
- **210** Minimally Invasive Spinal Neurosurgery: Indications, Techniques and Complications
- **211** Remove, Radiate or Just Observe: Acoustic Tumors
- **212** Controversies in the Management of Intracerebral Hematomas
- **213** Contemporary Management for Adult Hydrocephalus
- **214** Contemporary Management of Spinal Fractures
- **215** Attaining a Solid Fusion: Evidence Review and Suggestions for Success
- **216** Functional Mapping of the Cerebral Cortex: Advantages and Limitations
- **217** Malignant Brain Tumors: State-of-the-art Treatment
- **218** Measuring Outcomes and Safety in Neurosurgery
- **219** Global Neurosurgery
- **220** Management of Cranial Incidental Imaging Findings

**1:10-1:55 p.m.**

**Lunch-and-learn Seminars**

**Non-CME Events**

- **SE208** A Discussion on the Evolution of Neurosurgery: Multi-modality Imaging Technology and Its Impact on the Future of Tumor and Cerebrovascular Neurosurgery
  - *Presented by Carl Zeiss Meditec, Inc.*
- **SE209** Spinal Cord Stimulation - High Dose? Low Dose? Apply the Right Dose for the Right Patient
  - *Presented by Medtronic*
- **SE212** Advances in Deep Brain Stimulation (DBS)
  - *Presented by St. Jude Medical*

**1:15-2:45 p.m.**

**Special Programming**

- **SE127** Young Neurosurgeons Luncheon
  - Fee: $10
  - C&MS Fee: $10
  - Non-CME Event

**2-5:30 p.m.**

**Dinner Symposium**

- **SE130** Career Advancement to Health System Leadership
  - Fee: $195
- **SE131** New Solutions for Aneurysm Treatment
  - Fee: $195

### Wednesday, April 26

**7-9 a.m.**

**Breakfast Seminars**

- **301** ABNS Board Preparation: What You Must Know
- **302** Surgical Treatment of Parkinson’s Disease
- **303** Shoulder vs. Spine: Differentiating Shoulder and Cervical Spine Pathology
- **304** Management of Vasospasm
- **305** Management of Pediatric Epilepsy
- **306** Business of Neurosurgery II: Growth and Management of Neurosurgical Practices
- **307** Neurosurgical Management of Intractable Pain
- **308** Stem Cell Therapeutics in Neurosurgery
- **309** Controversies in Cerebrovascular and Endovascular Neurosurgery
- **310** The Spectrum of Adjuvant Therapy for Brain Tumors
- **311** Suprasellar and Juxtasellar Tumors: Complications and Avoidance
- **312** Management of Adult Scoliosis
- **313** New and Evolving Technologies for Minimally Invasive Lumbar Disc Surgery
- **314** Cerebral Trauma: State-of-the-art Treatment
- **315** Tumor-related Epilepsy
- **316** Lumbar Spine Fusion Indications and Complications
- **317** Selecting Anterior Approaches for Cerebrovascular Surgery: From Eyebrow to OZ – Pros and Cons of Minimally Invasive Keyhole Approaches for Cerebrovascular Surgery
- **318** The Use of Opioids in Neurosurgical Practice: How to be Safe, Effective and Compliant with New Prescribing Laws
- **319** The FDA: Investigational Device Exemptions, Regulatory Process and Moving Medical Devices to Patients

**7:30-9 a.m.**

- **SE203** AANS/CNS Section on Women in Neurosurgery (WINS) Breakfast With Meg Whitman
  - Fee: $100