SEPARATE REGISTRATION REQUIRED

THURSDAY, APRIL 11 AND FRIDAY, APRIL 12
The Benzel Symposium: State-of-the-art in Complex Spine Surgery, A Scientific Tribute and Global Celebration (Separate Registration Required)
AANS Neurosurgeon Member: $500
Neurosurgeon Non-member: $625
Resident and APP Member: $350
Resident and APP Non-member: $450

Benzel Gala and Roast: $200 per person

THURSDAY, APRIL 11 AND FRIDAY, APRIL 12
The Evandro de Oliveira Symposium: Mastery and Legacy in Neuroanatomy and the Surgery of Cerebrovascular Lesions, Complex Brain Tumors and Epilepsy, A Scientific Tribute and Career Celebration (Separate Registration Required)
AANS Neurosurgeon Member: $500
Neurosurgeon Non-member: $625
Resident and APP Member: $350
Resident and APP Non-member: $450

Gala Dinner: $200 per person

SUNDAY, APRIL 14
The NeuroPoint Alliance, Inc. (NPA) and Your Practice: Using Registries to Enhance Quality, Reimbursement, Certification and Clinical Research (Separate Registration Required)
Participating in NPA Project
Physician: $250
APP and Office Administrator/Staff: $150
Fellow, Resident and Medical Student: $50

Not Participating in NPA Project
Physician: $650
APP and Office Administrator/Staff: $450
Fellow, Resident and Medical Student: $150

PRACTICAL CLINICS
Fees are listed after the course title.

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

SATURDAY, APRIL 13
8 a.m.-5 p.m.
Full-day Practical Clinics

NEW
002 Bedside Biostatistics: How to Find and Use Evidence to Take Care of Patients
Fee: $600
APP Fee: $420
C&MS Fee: $130

003 You Are Never Too Old for Surgery: Spine Management in an Aging Population
Fee: $600
APP Fee: $420
C&MS Fee: $130

NEW
006 The Art and Science of Leadership: How to Maximize Personal and Team Success
Fee: $600
APP Fee: $420
C&MS Fee: $130

007 Endovascular Neurosurgery: Understanding the Procedure - Pre and Post Care Management
Fee: $450
APP Fee: $315
C&MS Fee: $65

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

NEW
009 Update on Techniques and Equipment for Neurosurgical Patient Positioning
Fee: $650
APP Fee: $455
C&MS Fee: $65

010 Laser Thermocoagulation (LITT) - How, When and Why
Fee: $450
C&MS Fee: $65

011 Fundamentals in Spinal Stabilization
Advanced Practice Providers/Medical Students/Residents
Fee: $650
APP Fee: $455
C&MS Fee: $65

1-5 p.m.
Afternoon Practical Clinics

NEW
012 Spinal Cord Stimulation-Integrating Pain Management into Your Neurosurgical Practice
Fee: $450
APP Fee: $315
C&MS Fee: $65

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

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

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

NEW
017 Complex Wound Management
Fee: $650
APP Fee: $455
C&MS Fee: $65

018 Cranio-cervical and C1C2 Stabilization Techniques, Surgical Approaches
Fee: $850
APP Fee: $655
C&MS Fee: $265
Meeting Reference Sheet

019 Deep Brain Stimulation (DBS): Update and New Directions
Fee: $450

NEW
020 Robotics in Neurosurgery: Neurmodulatory Surgeries for Epilepsy and Beyond
Fee: $650
APP Fee: $455
C&MS Fee: $65

NEW
021 Latest Breakthroughs for Meningiomas: Surgery vs. Radiosurgery
Fee: $450
C&MS Fee: $65

SUNDAY, APRIL 14
7:30 a.m.-4:30 p.m.
Full-day Practical Clinics

024 CPT Coding Update with ICD-10 for Neurosurgeons: Coding Concepts by Case Example
Fee: $600
APP Fee: $420
C&MS Fee: $130

025 Introduction to Cerebrovascular Neurosurgery for Residents
Non-CME Event
C&MS Fee: $130

NEW
027 Global Neurosurgical Practice
Fee: $900
APP Fee: $630
C&MS Fee: $130

028 Case-based Management of Traumatic Brain Injury
Fee: $600
APP Fee: $420

7:30-11:30 a.m.
Morning Practical Clinics

030 How to Apply to Residency
Fee: $450
C&MS Fee: $65

NEW
031 Complications Avoidance in Intracranial Surgery
Fee: $450
APP Fee: $315
C&MS Fee: $65

NEW
032 Cerebral Bypass Surgery: Indications, Techniques, New Directions
Fee: $650
APP Fee: $455
C&MS Fee: $65

033 Controversies, Complications, Indications and Advances in MIS Spine Surgery
Fee: $450
C&MS Fee: $65

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

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

NEW
035 Neurosurgery Around the World: Education and Other Opportunities
Fee: $450
APP Fee: $315
C&MS Fee: $65

NEW
036 Pearls and Pitfalls of Open vs. Endoscopic Transphenoidal Surgery
Fee: $450
APP Fee: $315
C&MS Fee: $65

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

038 Spinal Alignment: Cervical to Pelvis... What EVERY Surgeon Needs to Know; With Case Discussions
Fee: $450
APP Fee: $315

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

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

MONDAY, APRIL 15
SUNRISE SESSIONS
Sunrise Session Fees
Fee: $105
C&MS Fee: $20

7-9 a.m.
118 Global Neurosurgery
119 Attaining a Solid Fusion: Evidence Review and Suggestions for Success

BREAKFAST SEMINARS
Breakfast Seminar Fees
Fee: $150
C&MS Fee: $65

7-9 a.m.
NEW
100 Enhancing Neurosurgeons Productivity

NEW
101 Spinal Cord Tumors

NEW
102 New Neurons: The Future of Regenerative Therapy

NEW
104 ICH Trial Update

NEW
105 3D Simulation and Navigation for Advanced Practice Providers: A Team Based Approach

NEW
106 Sherrington’s Influence on Neurosurgery and the Incorporation of Neurophysiology into the Neurosurgical Research Paradigm: A Seminar

NEW
107 Brain Metastases 2.0: Expert Management Strategies and Challenging Cases

NEW
108 My Worst Mistakes in my First Year of Practice - Lessons Learned for Senior Residents and Recent Graduates

109 Pediatric Neurosurgery for General Neurosurgeons

110 Management of Adult Scoliosis
### 7:30-9 a.m.

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<tr>
<td>150</td>
<td>AANS/CNS Section on Women in Neurosurgery (WINS) Breakfast</td>
<td>$100</td>
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<tr>
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### 1:40-2:30 p.m.

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<td>175</td>
<td>Neurosurgery “In Press”: Latest Results of Clinical Trials in Neurosurgery and Allied Fields</td>
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### 1:45-3:15 p.m.

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<td>178</td>
<td>Advanced Practice Providers Luncheon: The Science of Practice: Gaining the Trust of the Pediatric Neurosurgical Patient and Family - How to Dance Your Way into Their Hearts!</td>
<td>$25</td>
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### 6:30-9 p.m.

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<td>Transvenous AVM Embolization</td>
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<td>C&amp;MS Fee: $10</td>
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### 7-9 p.m.

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<tr>
<td>151</td>
<td>AANS Section on the History of Neurological Surgery Annual Dinner</td>
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<td>Non-CME Event</td>
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### TUESDAY, APRIL 16

#### SUNRISE SESSIONS

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<td>218</td>
<td>Common Pitfalls and Artifacts on Brain CT and MRI Imaging</td>
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### 1:45-3:15 p.m.

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### 1:45-3:30 p.m.

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<tr>
<td>278</td>
<td>Mentorship: Lessons in Resiliency</td>
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# Meeting Reference Sheet

## 2:30-6 p.m.

275 Advancements in Neurotrauma Care  
Fee: $100  
APP Fee: $100  
C&MS Fee: $100

## 7-9 p.m.

**DINNER SYMPOSIA**

276 Ripped from the Headlines - Doctors in Medico-legal Crosshairs: Lessons Learned to Keep Lawyers and Regulators Away  
Fee: $195

**NEW**

277 Time for Change: The Future of Neurosciences Delivery and Integration  
Fee: $195

## 7-9 a.m.

### SUNRISE SESSIONS

Sunrise Session Fees  
Fee: $105  
C&MS Fee: $20

### BREAKFAST SEMINARS

Breakfast Seminar Fees  
Fee: $150  
C&MS Fee: $65

## 7-9 a.m.

**NEW**

300 Past, Present and Future of Carotid Stenosis

301 Contemporary Management of Spinal Fractures


303 Cervical Spondylotic Myelopathy

304 Management of Cranial Incidental Imaging Findings

305 The Spectrum of Adjuvant Therapy for Brain Tumors