Preliminary Scientific Program

31st Annual Meeting of the CNS/AANS Section on Disorders of the Spine and Peripheral Nerves presents

Spine Summit 2015

March 4-7, 2015 | JW Marriott Desert Ridge | Phoenix, Arizona

One Spine One World

SECTION ON DISORDERS OF THE SPINE AND PERIPHERAL NERVES
A Section of the Congress of Neurological Surgeons and American Association of Neurological Surgeons

Jointly provided by the Congress of Neurological Surgeons and the Section on Disorders of the Spine and Peripheral Nerves
DEAR COLLEAGUE,

We are excited to announce our first-ever Spine Summit, in collaboration with six other spine societies. Join us March 4-7, 2015 in Phoenix, Arizona for the 31st Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves. Engage with your fellow spine and peripheral nerve specialists as we explore our theme, One Spine, One World.

Offering lectures and courses on the latest surgical and non-surgical approaches to spine and peripheral nerve disorders, Spine Summit 2015 will change the way you practice with daily scientific sessions, case presentations and the most current original science on display. Our program also offers four David Cahill Memorial Controversies Sessions where you’ll hear the experts debate hot-button topics affecting our specialty today. Six Special Courses, three Luncheon Symposia, an all-new Dinner Seminar and a hands-on Cadaver Course will provide optional education to enhance your meeting experience.

The beautiful award-winning JW Marriott Desert Ridge offers breathtaking mountain and desert views, superior service, luxurious facilities, Revive Spa, excellent dining options and championship Wildfire Golf Club, home to the LPGA Founders Cup.

So, come to Phoenix for an outstanding educational program, exciting Exhibit Hall featuring the latest developments and technology and to network with colleagues.

Make your arrangements and register today at www.cns.org!

Michael Y. Wang, MD, FACS
Annual Meeting Chair

Zoher Ghogawala, MD, FACS
Scientific Program Chair

DATES TO REMEMBER

- **February 6**
  - Advance Registration and Housing Deadline

- **February 10**
  - Any changes to hotel reservations must be made directly with the hotel from this date forward

- **February 16**
  - $100 processing fee will be charged for written cancellations received by this date, regardless of cause
  - Special Course, Symposia and event tickets will be refunded in full until this date
  - Absolutely no refunds given after February 16, regardless of cause

MEETING HIGHLIGHTS

- Obtain up to 19 credits in Category 1 CME credit towards the AMA Physician’s Recognition Award (PRA). An additional 9.75 credits are available through optional programming
- Choice of six Special Courses and three Luncheon Symposia
- *New* Dinner Seminar
- Scientific Sessions and Special Courses presented by leading experts from both neurosurgery and orthopedic spinal and peripheral nerve surgery subspecialties
- Oral Presentations, Oral Poster and Digital Poster Abstracts
PROGRAM AT-A-GLANCE

WEDNESDAY, MARCH 4, 2015
11:00 AM – 6:00 PM
Registration
1:30 – 5:30 PM
- Special Course I – Spine Business and Compensation
- Special Course II – SRS – Spinal Deformity
- Special Course III – SMISS – Problem-Based Learning, Minimally Invasive Approaches
- Special Course IV – AO Course – Spine Trauma
- Special Course V – American College of Osteopathic Surgeons (ACOS) Neurosurgical Discipline Meeting
- Special Course VI – Mexican Spine Surgeon Symposium
6:30 – 8:00 PM
Opening Reception

THURSDAY, MARCH 5, 2015
6:00 AM – 6:00 PM
Registration
6:00 AM – 7:00 AM
Continental Breakfast
6:30 – 6:55 AM
Tales from the Front Lines: Case Presentations

FRIDAY, MARCH 6, 2015
6:00 AM – 6:00 PM
Registration
6:00 AM – 7:00 AM
Continental Breakfast
9:00 AM – 2:00 PM
Exhibits and Poster Viewing
6:30 – 6:55 AM
Tales from the Front Lines: Case Presentations

SATURDAY, MARCH 7, 2015
7:30 AM – 12:00 PM
Registration
7:30 AM – 8:00 AM
Continental Breakfast
8:00 – 9:00 AM
Scientific Session VIII Arthroplasty – ISASS and CSRS
9:00 – 9:30 AM
Coffee Break
9:30 – 10:30 AM
Cahill Controversies Session
10:30 AM – 12:10 PM
Oral Presentations V
1:30 – 5:30 PM
Special Course III – SMISS – Problem-Based Learning, Minimally Invasive Approaches
$250 includes lunch
Course Directors: William Taylor, Langston Holly
Faculty: Mike Wang, Anthony Frempong Boadu, Jean Pierre Mobasser, Juan Uribe, Adam Kanter, John O'Toole, Steven Ludwig, Neel Anand
Course Description: This course will utilize a problem based learning format to explore minimally invasive spine approaches to a variety of cases. The discussion will focus on the impact of common problems that arise from these approaches.
Learning Objectives: Upon completion of this course, participants will be able to:
- Discuss the potential utility and limitations of minimally invasive approaches to surgery
- Relate approaches to commonly presented problems in spinal surgery

1:30 – 5:30 PM
Special Course IV – AO Course – Spine Trauma
$250 includes lunch
Course Directors: Paul Arnold, Mike Steinmetz
Faculty: Paul Anderson, Jim Harrop, Bizhan Aarabi, Michael Fehlings, Darrel Brodke, Tom Mroz, Carlo Bellabarba, Paul Arnold
Course Description: This course will discuss the current surgical management of spinal trauma. The management of cervical, thoracic, and lumbar spinal trauma will be reviewed. Approaches to spinal regeneration will also be discussed.
Learning Objectives: Upon completion of this course, participants will be able to:
- Discuss the management of a dislocated cervical facet
- Discuss the role of minimally invasive techniques for spinal reconstruction
- Recognize the appropriate decision making process to return to play following neuropraxia

1:30 – 5:30 PM
Special Course V – American College of Osteopathic Surgeons (ACOS) Neurosurgical Discipline Meeting
$250 includes lunch
Course Directors: Steven Vanni, Robert Galler
Faculty: Pradeep Setty, Lee Sanquist, Cliff Hourman, Francesco Mangano, Mike Wang, Larry Armstrong, Alan Levi, Nick Qandah, Robert Galler, Steven Vanni, Gary Simonds, Ryan Barrett, Ripul Panchal, Aaron Danison, Michael Thomas
Course Description: This course will provide an update on progress in research by resident, fellow and attending neurological spine surgeons. Clinical and laboratory research will be presented and discussed in a forum intended to promote an active exchange of ideas. Insights on the identity of AOBS certified neurosurgeons in the United States will be reviewed.
Learning Objectives: Upon completion of this course, participants will be able to:
- Integrate the latest in research into clinical practice
- Discuss the various updates as they relate to cutting edge research
- Describe how the new ACGME guidelines may have significant impact on AOBS neurosurgical practices

1:30 – 5:30 PM
Special Course VI – Mexican Spine Surgeon Symposium
$250 includes lunch
Course Directors: Luis Tumialan, Juan Uribe, Jose Soriano
Faculty: Juan Uribe, Chris Shaffrey, Jose Soriano, Luis Tumialan, Dom Coric, Zohar Ghogawala
Course Description: This course will provide practical, current didactic information on spine disorders with particular emphasis on surgical approaches, stabilization techniques, complications avoidance and management, surgical and non-surgical decision making and management as well as discussion on future trends in Mexican neurosurgery.
Learning Objectives: Upon completion of this course, participants will be able to:
- Analyze the evolution of spinal surgery in Mexico
- Recognize the technical nuances of spinal surgery practiced in Mexico
- Develop strategies for complication avoidance and management
- Describe the evaluation and appropriate management for a number of spinal pathologies
- List the advantages and disadvantages of spinal surgical techniques
THURSDAY, MARCH 5, 2015

6:00 AM – 6:00 PM
Registration

6:30 – 6:55 AM
Tales from the Front Lines: Case Presentations
Speakers: Steven Hwang, Robert Whitmore

6:55 – 7:00 AM
Introductory Remarks/Meeting Announcements

7:00 – 8:00 AM
Scientific Session I
New Lumbar Spine Techniques
Moderators: Srini Prasad, Daniel Refai
Faculty: Srini Prasad, Alex Powers, Mike Wang, Daniel Refai
Learning Objectives: Upon completion of this course, participants will be able to:
- Assess the current literature on surgical treatment of degenerative lumbar spine disease
- Analyze the indications and expected outcomes for new lumbar spine surgical procedures

7:00 – 8:08 AM
Alignment vs. Balance
Steve Glassman

7:08 – 8:16 AM
Anterior Options for Deformity Correction
Chris Shaffrey

8:16 – 8:24 AM
Osteotomies
Sig Berven

8:24 – 8:32 AM
MIS Approaches to Deformity Surgery
Praveen Mummaneni

8:32 AM – 8:40 AM
Complications – Adjacent Level Disease
Frank LaMarca

8:40 – 8:48 AM
The Role of Pelvic Manipulation in Deformity Correction
David Polly

8:48 – 9:00 AM
Discussion

9:00 AM – 7:00 PM
Exhibit and Poster Viewing

9:00 – 9:50 AM
Society Career Award Winners
Moderator: R. John Hurlbert

9:00 – 9:05 AM
Meritorious Member Award Recipient
Bernard Schacter
To be introduced by R. John Hurlbert

9:05 – 9:10 AM
Introduction of Meritorious Award Winner – Orthopaedic Surgery
Daniel K. Resnick

9:10 – 9:27 AM
Meritorious Award Winner Address – Orthopaedic Surgery
Steve Glassman

9:27 – 9:32 AM
Introduction of Meritorious Award Winner – Neurosurgery
Michael Steinmetz

9:32 – 9:50 AM
Meritorious Award Winner Address – Neurosurgery
Edward Benzel

9:50 – 10:40 AM
Chairmen Talks – History of the Spine Societies

9:50 – 10:00 AM
Introduction of Chairmen
Zoher Ghogawala

10:00 – 10:05 AM
One Spine – One World
R. John Hurlbert

10:05 – 10:10 AM
History of CSRS
Daniel Riew

10:10 – 10:15 AM
History of SRS
David Polly

10:15 – 10:20 AM
History of ISASS
Jeff Goldstein

10:20 – 10:25 AM
History of AO Spine
Michael Fehlings

10:25 – 10:30 AM
History of AO Spine International
Jeff Wang

10:30 – 10:35 AM
History of ACSR
Alex Vaccaro

10:35 – 10:40 AM
History of SMISS
Greg Anderson

10:40 – 11:00 AM
Beverage Break and
What's New Session I

Register Today at www.spinesection.org!
11:00 – 11:45 AM  
**Scientific Session III**  
**Advances in CSM Treatment**  
Moderators: Erica Bisson, Langston Holly  
Faculty: Langston Holly, Erica Bisson, Shekar Kurpad, Michael Fehlings  
**Learning Objectives:** Upon completion of this course, participants will be able to:  
- Assess the most current treatment options for cervical spondylotic myelopathy  
- Analyze the indications and expected outcomes for new CSM procedures

11:00 – 11:08 AM  
**Management of CSM**  
Langston Holly

11:08 – 11:16 AM  
**Outcomes Following Surgery – N2QOD**  
Erica Bisson

11:16 – 11:24 AM  
**Diffusion Tensor Imaging**  
Shekar Kurpad

11:24 – 11:32 AM  
**CSM-Protect Trial**  
Michael Fehlings

11:32 – 11:45 AM  
**Discussion and Questions**

11:45 AM – 12:00 PM  
**CSRS Debate**

11:45 – 11:47 AM  
**Introduction to CSRS Debate**  
James Harrop

11:47 – 11:52 AM  
**Neuromonitoring is Useful**  
Alan Hilibrand

11:52 – 11:57 AM  
**Neuromonitoring is Dangerous**  
Vincent Traynelis

11:57 AM – 12:00 PM  
**Discussion**

12:00 – 1:00 PM  
**Lunch with Exhibitors and What’s New Session II**

1:00 – 2:30 PM  
**Scientific Session IV**  
**Outcomes**  
Moderator: Zohre Ghogawala  
Faculty: Jens Chapman, Daniel Resnick, Doug Burton, Robert Harbaugh, Sig Berven, Tom Mroz, Alex Vacarro  
**Learning Objectives:** Upon completion of this course, participants will be able to:  
- Discuss how outcomes collection and quality measures may have significant impact on spine practices  
- Describe the impact of value based care on spine practices

1:00 – 1:10 PM  
**Big Data and the Big Picture**  
Jens Chapman

1:10 – 1:20 PM  
**NASS – Non-operative and Operative Outcomes**  
Daniel Resnick

1:20 – 1:30 PM  
**SRS – What are We Learning?**  
Doug Burton

1:30 – 1:40 PM  
**N2QOD Registry**  
Robert Harbaugh

1:40 – 1:50 PM  
**The Value Proposition**  
Sig Berven

1:50 – 2:00 PM  
**Will Outcomes Improve My Practice**  
Tom Mroz

2:00 – 2:10 PM  
**Next Steps in Registry Development**  
Alex Vacarro

2:10 – 2:30 PM  
**Discussion**

2:30 – 3:30 PM  
**Oral Presentations I**  
**Moderators:** Frank LaMarca, Sanjay Dhall  
**Discussants:** Kai Ming Fu, Luis Tumialan, John Chi, John O Toole

3:30 – 4:00 PM  
**Beverage Break and What’s New Session III**

4:00 – 6:00 PM  
**Oral Presentations II**  
**Moderator:** Langston Holly, Charles Sansur

4:00 – 6:00 PM  
**Oral Presentations III**  
**Moderator:** Pete Angevine, John O Toole

6:00 – 7:00 PM  
**Reception with Exhibitors**
### MEETING AGENDA

#### 7:10 – 7:20 AM
**Operative Strategies**  
James Harrop

#### 7:20 – 7:30 AM
**Conservative Approaches**  
Charles Fisher

#### 7:30 – 7:35 AM
**Cahill Debate – Timing of Surgery for Central Cord Injury – Case**  
Ann Parr

#### 7:35 – 7:40 AM
**Operate Early**  
Michael Fehlings

#### 7:40 – 7:45 AM
**Do Not Operate Early**  
Paul Arnold

#### 7:45 – 8:00 AM
**Discussion**

#### 8:00 – 9:30 AM
**Oral Presentations IV**  
Moderators: Kurt Eicholtz, Erica Bisson

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<th>Time</th>
<th>Session</th>
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<td>9:30 – 10:00 AM</td>
<td><strong>Beverage Break and What’s New Session IV</strong></td>
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| 10:00 – 11:30 AM| **Scientific Session VI**  
**Quality in Spine Surgery**  
Moderator: Daniel Resnick  
Faculty: Joseph Cheng, Chris Wolfia, Jack Knightly, Raj Midha, Mike Groff, Kris Radcliff, Daniel Riew, Ian Kalfas  
Learning Objectives: Upon completion of this course, participants will be able to:  
- Discuss how quality improvement measures can be successfully applied in surgery  
- Describe how to implement and sustain comprehensive value based quality improvement |
| 10:00 – 10:10 AM| **Who is Watching?**  
Joseph Cheng |
| 10:10 – 10:20 AM| **Patient Perspective**  
Chris Wolfia |
| 10:20 – 10:30 AM| **Payer Perspective**  
Jack Knightly |
| 10:30 – 10:40 AM| **Positioning in the OR – Avoiding Injury**  
Raj Midha |
| 10:40 – 10:50 AM| **Avoiding Wrong Level Surgery**  
Mike Groff |
| 10:50 – 11:00 AM| **Reducing Infection – Vancomycin Powder**  
Kris Radcliff |
| 11:00 – 11:10 AM| **Assessment of Fusion – Too Many CTs?**  
Daniel Riew |
| 11:10 – 11:20 AM| **Re-operations – Avoidable?**  
Ian Kalfas |
| 11:20 – 11:30 AM| **Discussion** |
| 11:30 AM – 12:30 PM| **Scientific Session VII**  
**Top Oral Papers**  
Moderators: Charlie Branch, Joe Cheng  
Discussants: Dom Coric, Adam Kanter, Paul Park, Michele Johnson, Ziya Gokaslan, Dan Hoh |
| 12:30 – 1:00 PM| **Spine Section Business Meeting** |
| 1:00 – 1:10 PM| **Washington Committee Report**  
John Wilson |
| 1:10 – 1:20 PM| **Secretary’s Report**  
Marjorie Wang |
| 1:20 – 1:30 PM| **Treasurer’s Report**  
Charlie Kuntz |
| 1:30 – 1:40 PM| **Future Sites Committee Report**  
Chris Wolfia |
| 1:40 – 1:50 PM| **Nominating Committee Report**  
Mike Groff |
| 1:50 – 2:00 PM| **Luncheon Symposium I**  
**Complication Management with the Masters**  
Directors: Eric Potts  
Faculty: Vince Traynelis, Chris Shaffrey, Tyler Koski, Rusty Rodts  
Course Description: This course will discuss the evolution in the diagnosis and treatment of spinal disorders, as well as management of complications of treatment from the perspective of those who have extensively contributed to that evolution. Attendees will gain wisdom from historical knowledge and experiential narration.  
Learning Objectives: Upon completion of this course, participants will be able to:  
- Discuss the gravity of decisions that lead to complications  
- Discuss the underlying principles that might be used to minimize complications  
- Develop strategies that can be used to deal with surgical complication |
| 2:00 – 2:30 PM| **Luncheon Symposium II**  
**Metastatic Spine Disease – Treatment Options**  
Directors: John Shin, Ziya Gokaslan, Larry Rhines  
Faculty: Dan Sciubba, John Chi, Michelle Clarke, Ilya Laufer, Claudio Tatsu  
Course Description: This course will provide a comprehensive review of the care of patients with metastatic spine tumors. The experts in the field of Spinal Oncology will discuss topics such as evaluation of patients with metastatic spine disease, minimally invasive and open surgical treatment options, conventional and stereotactic radiosurgery as well as vertebroplasty/kyphoplasty with relevant up-to-date review of the literature.  
Learning Objectives: Upon completion of this course, participants will be able to:  
- Evaluate patients with metastatic spine tumors presenting with myelopathy, cauda equina syndrome or pain  
- Discuss the appropriate treatment options for a given patient including conventional radiation therapy, stereotactic surgery, minimally invasive and traditional open surgical procedures  
- Identify appropriate patients who are candidates for vertebroplasty and kyphoplasty  
- Review published data on the effectiveness of these various treatment modalities in patients with metastatic spine disease |

Register Today at www.spinesection.org!
1:00 – 2:30 PM
Luncheon Symposium III
Advanced Lateral Access
Interbody Fusion: Deformity
Directors: Adam Kanter, Juan Uribe
Faculty: Adam Kanter, Juan Uribe, William Taylor, Larry Kho, John O'Toole
Course Description: This course will focus on the indications, outcomes and complications of the advanced lateral access interbody fusion technique. Specific lectures will concentrate on anatomy and approach, literature based outcomes, complication avoidance and management, and clinical pearls.
Learning Objectives: Upon completion of this course, participants will be able to:
- Review and discuss indications for advanced lateral access approaches and surgery
- Discuss the complications and their avoidance in these procedures
- Review the clinical and radiographic results in advanced lateral access interbody fusion procedures

1:00 – 5:30 PM No CME offered for this course
Spine Section Cadaveric Instruction with Lunch
Directors: Luis Tumialan, Daniel Hoh
Course Description: In this course, participants will engage in hands-on learning of innovative new technologies in spine and peripheral nerve surgery. With this four hour cadaver lab, participants will learn advanced techniques in minimally invasive and deformity spine surgery and peripheral nerve repair. Rotations include direct lateral lumbar approaches, minimally invasive lumbar fusion, percutaneous screw fixation, endoscopic decompression, spinal deformity correction, and peripheral nerve grafting. One-on-one instruction will be performed with experienced faculty using the latest state-of-the-art instrumentation and devices. Surgeons with limited prior experience will learn practical techniques to introduce into their clinical practice. Those with advanced experience will have the opportunity to share surgical technique refinement with expert faculty, and to survey a variety of new technologies.
Learning Objectives: Upon completion of this course, participants will be able to:
- Describe indications and techniques for various new technologies in spine surgery
- Describe indications and techniques for various new technologies in peripheral nerve surgery
- Describe complication avoidance and management for various new technologies in spine and peripheral nerve surgery

6:30 – 9:00 PM
Young Neurosurgeons’ Dinner
All residents, fellows, and young neurosurgeons are encouraged to attend this special event.

9:30 – 10:30 AM
Cahill Controversies Session
Moderators: Edward Benzel, Adam Kanter

9:30 – 9:38 AM
Introduction of Cahill Session
Charlie Branch

9:38 – 9:46 AM
Percutaneous Screws Thoracolumbar Trauma
Sanjay Dhall

9:46 – 9:54 AM
Open Surgery is the Best Treatment for Trauma
James Harrop

10:02 – 10:10 AM
Laminectomy and Fusion for Scoliosis with Foraminal Stenosis
Chris Shaffrey

10:10 – 10:30 AM
Questions and Comments

10:30 AM – 12:10 PM
Oral Presentations V
Moderators: Sanjay Dhall, Michele M. Johnson

SATURDAY, MARCH 7, 2015
7:30 AM – 12:00 PM
Registration

8:00 – 9:00 AM
Scientific Session VIII
Arthroplasty – ISASS and CSRS
Moderators: Dom Coric, Gunner Anderson, Jeff Goldstein
Faculty: Dom Coric, Praveen Mummaneni, Robert Whitmore
Learning Objectives: Upon completion of this course, participants will be able to:
- Analyze the current state-of-the-art cervical disc arthroplasty technology
- Determine indications for use of these technologies and potential complications and costs

8:00 – 8:08 AM
Which Patient is Ideal?
Dom Coric

8:08 – 8:16 AM
Long Term Results
Praveen Mummaneni

8:16 – 8:24 AM
Complications Following Cervical Arthroplasty
Jeff Goldstein

8:24 – 8:32 AM
Adjacent Level Disease
Vincent Traynelis

8:32 – 8:40 AM
Cost
Robert Whitmore

8:40 – 9:00 AM
Discussion

9:00 – 9:30 AM
Coffee Break
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the Congress of Neurological Surgeons (CNS) and the Section on Disorders of the Spine and Peripheral Nerves. The Congress of Neurological Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

**AMA Credit Designation Statement**

The Congress of Neurological Surgeons designates this live activity for a maximum of 28.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**CME Credit**

*A maximum of 19 AMA PRA Category 1 Credits™ may be earned for Scientific Sessions only.

**Mid-Level Practitioners**

Attendees will receive credits for attendance at the general Scientific Program and for any optional events attended. Please contact your individual membership association and certification board to determine the requirements for accepting credits. All attendees will receive a Certificate of Attendance.

**Additional CME Credits can be earned by attending the following:**

**Special Courses**

Attendees will receive a maximum of 3.75 AMA PRA Category 1 Credits™ for each eligible half-day Special Course. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Luncheon Symposia**

Attendees will receive a maximum of 1.5 AMA PRA Category 1 Credits™ for each eligible Luncheon Symposium. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Dinner Seminar**

Attendees will receive a maximum of 2 AMA PRA Category 1 Credits™ for each eligible Dinner Seminar. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Posters**

Physicians may claim AMA PRA Category 1 Credit™ directly from the AMA for preparing a poster presentation, which also includes the published abstracts. Physicians may claim them on their AMA PRA certificate application or apply directly to the AMA for an AMA PRA Category 1 Credit™ certificate. Physicians may claim AMA PRA Category 2 Credit™ for viewing scientific posters. Physicians should self-claim credit on their AMA PRA certificate application form.

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**SAVE THE DATE!**

**CNS SANS MOC Course**

**2015 CNS SANS MOC Board Review Course**

JW Marriott Desert Ridge Resort & Spa • Phoenix, Arizona

March 7-8, 2015

Course Directors: Mark E. Shaffrey, Nader Pouratian

Join your colleagues in Phoenix, Arizona for a comprehensive review of clinical content pertinent to the ABNS MOC Recertification Exam—from entrapment neuropathies and brachial plexus to vascular malformations or sellar tumors and cysts. Expert faculty use the Self-Assessment in Neurological Surgery (SANS) with questions modeled after those on the actual ABNS exam to help you prepare for the exam in an interactive forum of your peers.

For more details, visit cns.org

Register Today at www.spinesection.org!
Opening Reception
Wednesday, March 4
6:30 – 8:00 PM
Take in spectacular views of the rugged mountains and watch the sunset while enjoying a lavish array of food and beverages as you network with old friends and new colleagues at the Opening Reception. Each medical attendee and spouse/guest registered for the meeting will receive one complimentary ticket. Please note this event is held outdoors. Resort casual attire is recommended.

Reception with Exhibitors in the Exhibit Hall
Thursday, March 5
6:00 – 7:00 PM
Attendees will have the opportunity to interact with exhibiting companies while enjoying pre-dinner cocktails and hors d’oeuvres. Each medical attendee and spouse/guest* registered for the meeting will receive one complimentary ticket. Business casual attire is recommended. *Please note: Due to liability and security, children under 18 years of age are not permitted on the exhibit floor at any time.

Who Should Attend
Educational sessions are geared toward neurosurgeons, orthopedic surgeons, spine care specialists, fellows, residents, physician assistants/physician extenders, and nurse clinicians, and are applicable to the practice of spine and peripheral nerve surgery.

Meeting Purpose
The purpose of the 2015 Section on Disorders of the Spine & Peripheral Nerves Annual Meeting is to provide continuing medical education to neurosurgeons, orthopedic surgeons, spine care specialists, fellows, residents, physician extenders and nurse clinicians involved in the practice of spine and peripheral nerve surgery. Education is provided in the form of didactic lectures, special courses demonstrating neurosurgical techniques, exhibits presenting the newest instruments and information, and digital posters providing the latest information regarding clinical advances in neurological surgery.

Area Attractions and Tour Information
Phoenix offers a host of opportunities for adventure and relaxation. Enjoy a romantic hot air balloon ride for two, or a desert jeep tour and horseback riding for the whole family. To obtain more information or make reservations for Phoenix area attractions and tours, please visit the city’s official website at www.visitphoenix.com or contact any member of the JW Marriott Desert Ridge Concierge Team at (480) 293-5000. It is best to make arrangements in advance. The concierge team will be available to assist you on site as well.

Children’s Programs and Child Care Services
Family Escape is the JW Marriott Desert Ridge’s exclusive area dedicated to families and children. Drop off your child (ages 4-12) between 8:00 AM – 12:00 PM to give the children some independence while parents enjoy their time with peace of mind knowing the kids are in a safe and fun environment. In the afternoon, the JW Marriott Desert Ridge opens up the program to the entire family to escape the heat and enjoy each other’s company. Have fun playing one of the many board games, relax watching a movie, or get competitive with a game of Ladder Ball. Contact the resort concierge at (480) 293-5000 for additional information and applicable fees.

The Section on Disorders of the Spine and Peripheral Nerves is not affiliated with nor is it endorsing the services of any childcare program; however, the JW Marriott Desert Ridge does provide a list of in-room child care providers. Please contact the resort concierge at (480) 293-5000 for additional information and applicable fees.

Evaluations
The evaluation process is a key component in providing cutting-edge programming at the Section on Disorders of the Spine and Peripheral Nerve Annual Meeting. Your feedback on the quality and diversity of the program helps to determine future Annual Meeting programming. Your voice is important and your opinions are valued!

Speaker Ready Room
The Speaker Ready Room will be available Wednesday, March 6 through Saturday, March 9. All speakers and abstract presenters should visit the Speaker Ready Room at least one hour prior to their presentations.

No Smoking Policy
Smoking is not permitted at any official Section on Disorders of the Spine and Peripheral Nerve Annual Meeting event. Smoking is also prohibited inside and on the grounds of the JW Marriott Desert Ridge.

Register Today at www.spinesection.org!
Housing & Travel Information

Hotel Accommodations
The JW Marriott Desert Ridge offers luxury accommodations and amenities your whole family is sure to enjoy, from fine dining to a host of recreation activities. This resort in the Sonoran Desert features a unique architectural design incorporating the four elements of nature: fire, water, earth and sky. This hotel has a smoke-free policy.

Resort Amenities:
- Complimentary in-room internet access
- Deluxe guest rooms with patios or balconies overlooking wildflower gardens, swimming pools, lakes and waterways plus golf course or mountain views
- Four acres of turquoise pools and shimmering waterways
- Wildfire Golf Club featuring two on-site 18-hole golf courses
- Stunning, two-story spa oasis, featuring signature treatments that combine ancient rituals with cutting-edge techniques
- Eight-court tennis center
- Desert botanical garden
- Three fine-dining restaurants, one casual dining restaurant, one cafe, a lounge and a spa bistro

Hotel Room Rates
Standard Guest Room
- $436.73 Single/Double*
- $456.73 Triple*
- $476.73 Quad*

*Above rates include applicable state and local taxes. A portion of the room rate will be utilized to cover the cost of registration and housing services.

These special rates are only available until the February 6, 2015 cut-off date. The Section on Disorders of the Spine and Peripheral Nerves cannot guarantee the availability of this rate after the cut-off date. Rates are effective 3 days prior to and 3 days after the official meeting dates of March 4-7, 2015. Confirmation for dates other than official meeting dates, made prior to the cut-off date, will be based on availability. Reservations can be made online or via fax, phone or mail. Visit www.spinesection.org to make your reservation today!

Hotel Reservation Information and Deadlines
Hotel reservations are only available to registered Section on Disorders of the Spine and Peripheral Nerves attendees. You must first register for the Annual Meeting before making your hotel arrangements. Rooms are subject to availability. Reserve your room by February 6, 2015.

Deposit
A deposit equal to one night’s room and tax is required to hold each guest’s reservation. This payment must be submitted with your registration fees. Credit cards will be charged in mid-February. Please make checks payable to the DSPN Housing Center and mail checks to: DSPN Registration and Housing Center, 6100 W. Plano Parkway, Suite 3500, Plano, TX 75093. All rooms are subject to applicable state and local taxes. Hotel reservations requested without deposit will not be accepted.

Hotel Confirmations, Cancellations or Changes
Through February 6
- All changes and cancellations must be made through the Section on Disorders of the Spine and Peripheral Nerves Registration and Housing Center.
- Rooms are not transferable.
- Refunds for deposits will be issued by the Section on Disorders of the Spine and Peripheral Nerves Registration and Housing Center if registration is cancelled.

Beginning February 10
- All changes and cancellations must be made directly with the hotel.
- If cancellation notice is not received according to the hotel policy, the deposit may be forfeited.

Transportation to the Resort Shuttle
Super Shuttle provides service between Phoenix Sky Harbor International Airport and the JW Marriott Desert Ridge. Collect your luggage and go to the “Blue Diamond Area” located outside of baggage claim. Call Super Shuttle at (602) 244-9000 five hours in advance of your departure for return reservations, or simply stop by the resort concierge and ask them to make a Super Shuttle reservation for you. Fare is $25.00 per person. Please visit www.supershuttle.com for more detail.

Car Service
Transtyle sedans are readily available to take you between the Phoenix Sky Harbor International Airport and the JW Marriott Desert Ridge. Rate information is available at www.transtyle.com. Although recommended, advance reservations are not necessary. Call (480) 948-6131 for further information and to make reservations.
Credit Card Payments
- US dollars and drawn on a US bank
- Visa
- MasterCard
- American Express

What's Included in the Registration Fee?
Medical Registration includes the following:
- Daily Continental Breakfasts
- Daily Beverage Breaks
- Daily Scientific Sessions
- Entrance to the Exhibit Hall
- One ticket to Wednesday Opening Reception
- One ticket to Thursday Reception with Exhibitors
- One ticket to Friday Lunch with Exhibitors

Spouse/Guest Registration Includes the Following:
- Daily Continental Breakfasts with medical attendees
- Daily Scientific Sessions
- Entrance to the Exhibit Hall
- One ticket to Wednesday Opening Reception
- One ticket to Thursday Reception with Exhibitors

Child Registration
Although there is no registration fee, children under 18 years of age should register for the Annual Meeting to receive a badge.
- Daily Continental Breakfasts with medical attendees
- Daily Scientific Sessions
- One ticket to Wednesday Opening Reception

Speaker Registration
Complimentary registration will not be provided for one-day speakers. All speakers must register at the applicable registration rate.

Onsite Registration Hours
Wednesday, March 4  11:00 AM – 6:00 PM
Thursday, March 5  6:00 AM – 6:00 PM
Friday, March 6  6:00 AM – 6:00 PM
Saturday, March 7  7:30 AM – 12:00 PM

Registration Cancellation/Refund Policy
All refund requests must be received in writing by February 16.
Requests accepted via:
E-mail: dspn@wyndhamjade.com
Fax: (972) 349-7715
Mail: DSPN Registration and Housing
6100 W. Plano Parkway, Suite 3500
Plano, TX 75093

Cancellation Date Schedule
Before February 16
Full Refund will be awarded less $100 processing fee. Special Courses, Symposia and Events will be refunded in full until this date.

After February 16 and No Shows
Absolutely no refunds will be issued after this date for Registration, Special Courses, Symposia and Events regardless of cause.

Americans with Disabilities Act/Special Needs and Requests
The Section on Disorders of the Spine and Peripheral Nerves wishes to take the necessary steps to ensure that no individual with a disability is excluded, denied services, segregated or otherwise treated differently than other individuals because of the absence of auxiliary aids and services. Please let us know if, under the ADA, you require special accommodations or services in order to attend the Section on Disorders of the Spine and Peripheral Nerves Annual Meeting.

Your requirements should be sent directly to the Section on Disorders of the Spine and Peripheral Nerves Housing and Registration Center at wyndhamjade.com or call (800) 931-9543. Please provide any requests at least 30 days prior to the Annual Meeting to guarantee accommodation. Scooter and wheelchair rentals are available by contacting ScootAround, Inc. at their toll-free hotline: (888) 441-7575. You can also submit a rental inquiry on the web at www.scootaround.com.
ADVANCE REGISTRATION & HOUSING FORM

DEADLINE: Advance Registration, Friday, February 6, 2015

All meeting confirmations will be sent via e-mail or fax.

Four ways to Advance Register:
1. Online: www.spinesection.org
2. Phone: (800) 931-9543 or (972) 349-5339
3. Fax: (972) 349-7715
4. Mail: DSPN Registration and Housing Center
   6100 W. Plano Parkway, Suite 3500
   Plano, TX 75093

Registration Information
Please print or type legibly using one form per person. The name and address entered below will be used for CME Certificate.

LAST NAME | FIRST NAME | CREDENTIALS
INSTITUTION/HOSPITAL/OFFICE/COMPANY | ADDRESS | CITY | STATE/PROVIDENCE | COUNTRY | ZIP/POSTAL CODE
TELEPHONE | FAX | E-MAIL
SPOUSE/GUEST NAME (IF APPLICABLE: PLEASE PRINT NAME AS IT WILL APPEAR ON BADGE)
CHILD NAME(S) AND AGE

Hotel Reservations
Individuals requiring hotel reservations must first register for the Section on Disorders of the Spine and Peripheral Nerves Annual Meeting.

Arrival Date:____________________ Departure Date:____________________ □ No Room Required  □ Staying At/With:________________________________________

Room Preference
□ Single (1 person) – $436.73*
□ Double (2 people, 1 bed) – $436.73.*
□ Double/Double (2 people, 2 beds) – $436.73*
□ Triple (3 people) – $456.73
□ Quad (4 people) – $476.73
* Above rates include applicable state and local taxes. A portion of the room rate will be utilized to cover the cost of registration and housing services.

The JW Marriott Desert Ridge will make every effort to honor specific requests; however, they reserve the right to provide alternative accommodations when necessary.

Special Requests
□ Handicap Accessible Room
□ Crib (additional fee may apply)
□ Rollaway bed (additional fee may apply)
Special Requests are subject to availability upon arrival at the hotel.

□ Please check this box if you are interested in reserving a suite. (AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Registration and Housing Center representative will contact you regarding suite availability and rates. In the meantime, a standard room will be assigned.)

Hotel Change/ Cancellations Policy
Through February 6 – All changes are subject to availability and cancellations may be made online at www.spinesection.org or via e-mail at dspn@wyndhamjade.com.

Beginning February 10 to 7 Days Prior to Your Scheduled Arrival Date – Please contact the JW Marriott Desert Ridge directly with all changes or cancellations. The hotel will retain the deposit for cancellations made at least seven days prior to your confirmed arrival date. This cancellation policy is strictly enforced and no exceptions will be made. Please retain the cancellation information from the Section on Disorders of the Spine and Peripheral Nerves Registration and Housing Center as the hotel cancellation number is proof of the cancellation. This number will be required to resolve any disputes.

Meeting Registration Fees

<table>
<thead>
<tr>
<th>Registration Category</th>
<th>Received on or Before February 6, 2015</th>
<th>Received After February 6, 2015</th>
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<tbody>
<tr>
<td>Spine Section Member</td>
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<tr>
<td>NASS Member</td>
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<tr>
<td>Orthopedic Surgeon/ACOS Member*</td>
<td>$500</td>
<td>$600</td>
</tr>
<tr>
<td>SRS Member</td>
<td>$500</td>
<td>$600</td>
</tr>
<tr>
<td>ISASS Member</td>
<td>$500</td>
<td>$600</td>
</tr>
<tr>
<td>SMISS Member</td>
<td>$500</td>
<td>$600</td>
</tr>
<tr>
<td>AO Spine Member</td>
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<td>$600</td>
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<tr>
<td>ACSR Member</td>
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<td>$600</td>
</tr>
<tr>
<td>Non-Member</td>
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<td>$750</td>
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<tr>
<td>Non-Physician, Non-Member</td>
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<td>$750</td>
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<tr>
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<tr>
<td>Physician Assistant</td>
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<td>$450</td>
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<tr>
<td>Spouse/Guest</td>
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<td>$130</td>
</tr>
<tr>
<td>Child</td>
<td>$0</td>
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</tr>
</tbody>
</table>

Subtotal for Registration Fee Section  $________________________

*Orthopedic Surgeon/ACOS Member Registration Includes One-Year Complimentary Adjunct Membership
SPECIAL COURSES AND LUNCHEON SYMPOSIA TICKET ORDER

**WEDNESDAY, MARCH 4**

**1:30 – 5:30 PM**

**SPECIAL COURSES**

- **Special Course I** – Spine Business and Compensation
  - Medical Registrant $250 (Includes Lunch) – (SCI)
- **Special Course II** – SRS – Spinal Deformity
  - Medical Registrant $250 (Includes Lunch) – (SCII)
- **Special Course III** – Problem Based Learning – Minimally Invasive Approaches
  - Medical Registrant $250 (Includes Lunch) – (SCIII)
- **Special Course IV** – AO Course – Spine Trauma
  - Medical Registrant $250 (Includes Lunch) – (SCIV)
- **Special Course V** – American College of Osteopathic Surgeons (ACOS) Neurosurgical Discipline Meeting
  - Medical Registrant $250 (Includes Lunch) – (SCV)
- **Special Course VI** – Mexican Spine Surgeon Symposium
  - Medical Registrant $250 (Includes Lunch) – (SCVI)

**THURSDAY, MARCH 5**

**6:30 – 8:30 PM**

**DINNER SEMINAR**

- **The Ethical and the Medical-Legal World of Spine Surgery**
  - $225

**FRIDAY, MARCH 6**

**1:00 – 2:30 PM**

**LUNCHEON SYMPOSIA**

- **Luncheon Symposium I** – Complication Management with the Masters
  - Medical Registrant $200 (Includes Lunch) – (LSI)
- **Luncheon Symposium II** – Metastatic Spine Disease, Treatment Options
  - Medical Registrant $200 (Includes Lunch) – (LSII)
- **Luncheon Symposium III** – Advanced Lateral Access Interbody Fusion: Deformity
  - Medical Registrant $200 (Includes Lunch) – (LSIII)

**FRIDAY, MARCH 6**

**1:00 – 5:30 PM**

**CADAVER COURSE**

- **Spine Section Cadaveric Instruction**
  - Medical Registrant $500 (Includes Lunch) – (CI)

**CNS SANS MOC BOARD REVIEW COURSE**

**SATURDAY, MARCH 7**

**12:00 – 7:45 PM**

- **Full Course** $750

**SUNDAY, MARCH 8**

**6:30 AM – 1:00 PM**

- **Spine & Peripheral Nerve Portion** $400

**PAYMENT**

**HOTEL TOTAL ($436.73 PER UNIT)** $__________

**REGISTRATION TOTAL** $__________

**CNS SANS MOC BOARD REVIEW COURSE TOTAL** $__________

**GRAND TOTAL** $__________

☐ **Check:** Full payment must accompany your registration form. Please make REGISTRATION check payable to the DSPN Registration Center. Please make HOUSING check payable to the DSPN Housing Center. Please send both of your checks to: DSPN Registration and Housing Center, 6100 W. Plano Parkway, Suite 3500, Plano, TX 75093. (Any checks received from an overseas bank will be returned. Any checks returned for insufficient funds are subject to additional charges.)

**Credit Card Authorization:** Credit card will be charged immediately.

☐ Visa ☐ MasterCard ☐ American Express

**CREDIT CARD NUMBER**

**EXPIRATION DATE**

**CVV CODE**

**NAME OF CARDHOLDER (PRINT)**

**SIGNATURE (I AGREE TO PAY ACCORDING TO THE CREDIT CARD ISSUER AGREEMENT)**

By signing this form: I authorize the Section on Disorders of the Spine and Peripheral Nerves Registration and Housing Center to charge my credit card for the total payment due, acknowledge that the Section on Disorders of the Spine and Peripheral Nerves registration cancellation policies are in effect and grant the Section on Disorders of the Spine and Peripheral Nerves the right to use photos taken at the Section on Disorders of the Spine and Peripheral Nerves Annual Meeting which include me in promotional materials for future meetings. These fees are subject to audit in case of error, the Section on Disorders of the Spine and Peripheral Nerves Registration and Housing Center reserves the right to correct the error and charge the appropriate fees.

**Registration Cancellation Policy – Full registration refunds, less a $100 processing fee, will be granted if written requests for cancellation are received by February 16, 2015. No refunds of any kind will be given after this date. Refunds will not be given for no shows. Written requests may be e-mailed to dspn@wyndhamjade.com, faxed to (972) 349-7715 or mailed to DSPN Registration and Housing Center, 6100 W. Plano Parkway, Suite 3500, Plano, TX 75093.**

Register Today at www.spinesection.org!
Find the latest spine and peripheral nerve technology in the Exhibit Hall. Take the time to explore the hall and enjoy one-on-one discussions, hands-on demonstrations as well as share the individual needs of your practice with the exhibitors so they can better serve you.

**Exhibit Hall Features**
The Exhibit Hall, located in the Grand Canyon Ballroom, will feature:

- State-of-the-art equipment, products and services
- Corporate Sponsored Lunch: Corporate partners will be presenting the latest cutting edge technology while providing lunch.
- Reception in the Exhibit Hall: Join us Thursday evening for another great social networking opportunity! Browse the aisles of the Exhibit Hall and visit your favorite companies or perhaps encounter some fresh faces on the exhibit floor, all while enjoying cocktails and hors d’oeuvres
- Digital Posters: Browse the 2015 Annual Meeting abstracts enhanced by photos and video, searchable abstracts by author or topic
- What's New Sessions: Join the crowd during daily beverage breaks on Thursday and Friday as speakers share the latest in cutting-edge research and technology

**Exhibit Hours**

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday, March 5th</td>
<td>9:00 AM – 7:00 PM</td>
</tr>
<tr>
<td>Friday, March 6th</td>
<td>9:00 AM – 2:00 PM</td>
</tr>
</tbody>
</table>

**What's New Schedule**

<table>
<thead>
<tr>
<th>Day</th>
<th>Morning Time</th>
<th>Afternoon Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday, March 5th</td>
<td>10:40 – 11:00 AM</td>
<td>12:00 – 1:00 PM</td>
</tr>
<tr>
<td>Friday, March 6th</td>
<td>9:30 – 10:00 AM</td>
<td>3:00 – 4:00 PM</td>
</tr>
</tbody>
</table>

**Corporate Sponsored Lunch Schedule**

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday, March 5th</td>
<td>12:00 – 1:00 PM</td>
</tr>
<tr>
<td>Friday, March 6th</td>
<td>1:00 – 1:30 PM</td>
</tr>
</tbody>
</table>
REGISTER ONLINE TODAY AT WWW.SPINESECTION.ORG!

ADVANCE REGISTRATION DEADLINE: FEBRUARY 6, 2015