THE 38TH ANNUAL MEETING OF THE AANS/CNS SECTION ON DISORDERS OF THE SPINE AND PERIPHERAL NERVES

SPINE SUMMIT 2022
FEBRUARY 23–26, 2022
LAS VEGAS, NEVADA

TRANSFORMATIVE TECHNOLOGIES

SPINE SUMMIT 2022 IS JOINTLY PROVIDED BY THE CONGRESS OF NEUROLOGICAL SURGEONS AND THE AANS/CNS SECTION ON DISORDERS OF THE SPINE AND PERIPHERAL NERVES.

Register today at spinesection.org and save!
Dear Colleague:

We would like to invite you to join us for Spine Summit 2022, the 38th Annual Meeting of the Joint Section on Disorders of the Spine and Peripheral Nerves. The meeting will be held in person February 23-26, 2022, in Las Vegas, Nevada, at the gorgeous Caesars Palace. We plan to provide a safe environment for us to meet together in-person, please check the website for detailed information. We look forward to seeing attendees and industry leaders from around the world gather to discuss topics under our 2022 theme, **Transformative Technologies**.

The first and most exciting spine meeting of the year will deliver can’t miss scientific sessions, relevant special courses, compelling breakouts, and spirited debates on controversial topics in our field. You’ll have the opportunity to collaborate with spine and peripheral nerve surgeons at the forefront of the field, discover new technology and innovations, and discuss strategies to find balance and direction in a time of rapid and meaningful change in health care.

This year, we are proud to honor Neurosurgery Honored Guest, **John J. Knightly**, Orthopedics Honored Guest, **Todd J. Albert**, Peripheral Nerve Honored Guest, **Allan D. Levi**, and Neurosurgery Meritorious Awardee, **Mark E. Shaffrey**. These outstanding leaders in the field will be sharing their knowledge throughout the program.

In addition to oral presentations showcasing the best ongoing research in our field, we continue to showcase residents’ scientific contributions with the Charlie Kuntz Scholarship Awards, the J.A.N.E. Award, the Mayfield Awards, and the Kline Peripheral Nerve Top Abstract Award.

Be sure to visit our cutting-edge Exhibit Hall to see the latest in technology, products, and services. As always, you’ll enjoy a lively Opening Reception, an opportunity to reconnect with colleagues at the WINS reception, and a chance to meet with honored guests at the Young Spine Surgeons’ Reception and Dinner. Don’t forget to carve out time to explore the entertainment capital of the world! You can take in the sights of the lively Las Vegas Strip, dine at the finest restaurants, see a show, or visit other attractions in the city that never sleeps!

The 38th Annual Meeting of the Joint Section on Disorders of the Spine and Peripheral Nerves provides you an unparalleled opportunity to stay on the cutting edge of spine and peripheral nerve surgery, while enjoying the world-class atmosphere and accommodations in Las Vegas!

Please make your travel arrangements and register today at [spinesection.org](http://spinesection.org)

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**SINCERELY**

**Domagoj Coric**  
Section Chair

**Erica F. Bisson**  
Annual Meeting Chair

**Scott A. Meyer**  
Scientific Program Chair

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**MEETING HIGHLIGHTS**

- Special Courses *(Ticketed events)*
- The Cahill Controversies Session
- Crossfire: Finesse or Brute Force *(Happy Hour Debates with Beer and Wine)*
- Dinner Seminar featuring Honored Guests
- Oral Abstract Presentations, Charles Kuntz Scholars, Mayfield Awards, and J.A.N.E. Award
- APRN & PAs Seminar *(complimentary for PAs and RNs)*
- Young Spine Surgeons’ Reception

**IMPORTANT DATES**

**January 28, 2022**  
Advance registration and housing deadline

**February 9, 2022 - Cancellation Refund Deadline**  
Before February 9, a full registration refund will be issued less $100 processing fee. Special courses, seminars, and social events will be refunded in full until this date.

*Refunds may be issued after February 9, 2022 on a case-by-case basis.*
EXCITING SCIENCE

Crossfire: Finesse or Brute Force
(Happy Hour Debates with Beer and Wine)

Thursday
4:30-6:30 pm

Moderators: Steven D. Glassman, Robert F. Heary

Neurosurgery Speakers: James S. Harrop, Roger Hartl, Maziyar A. Kalani, Michael Y. Wang

Orthopedic Speakers: Matthew Goodwin, Serena Hu, Themistocles Protopsaltis

Summary Speakers: Robert Eastlack, Gregory M. Mundis, Sheeraz Qureshi, Daniel M. Sciubba

Enjoy a lively debate session with beer and wine at Crossfire: Finesse or Brute Force! Faculty experts will present their argument for or against novel interbody technology before fielding audience questions. In the end the audience votes on the best method of treatment!

Kuntz Scholar Oral Abstract Presentations

Thursday
3:15-4:25 pm

Experience oral presentations from winners of the Charlie Kuntz Scholarship program for their outstanding abstracts on laboratory or clinical investigation into spinal disorders. Authors will present their award-winning abstracts and take part in question-and-answer discussions facilitated by faculty experts.

The Cahill Controversies Session

Friday
10:15 am-12:15 pm

Moderators: Richard Fessler


Your voice counts in this unique presentation format. Join expert faculty as they discuss the pros and cons of lateral spine surgical options. After presenting their respective sides of the discussion the audience will have an opportunity to ask questions to the presenters before casting their vote for the optimal treatment option.

Oral Board-Style Challenging Cases

Thursday, Friday, and Saturday
starting at 7:00 am

Exercise your diagnostic skills in these challenging oral board-style sessions moderated by expert staff. Diagnose cases in different specialties including cervical, lumbar, and peripheral nerve! Audience participation and questions are encouraged!

DINNER SEMINAR

Wednesday
9:00-11:00 pm

An opportunity to interact with the 2022 Spine Summit Honored Guests, John J. Knightly, Todd J. Albert, as well as Meritorious Award Recipient, Mark E. Shaffrey, to learn their perspectives on the future of spine surgery. The DSPN Chair, Domagoj Coric, will discuss the evolution of private practice and future trends and directions.
## WEDNESDAY | FEBRUARY 23

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>11:00 am-5:30 pm</td>
<td>Registration</td>
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<tr>
<td>12:00-1:00 pm</td>
<td>Non-CME Pre-Meeting Sponsored Lunch Symposia</td>
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</tbody>
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| 1:30-4:30 pm | **SPECIAL COURSE 1**  
NEW! Cervical Spinal Trauma: What Every Spine Surgeon Needs to Know |

## THURSDAY | FEBRUARY 24

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>6:30 am-6:30 pm</td>
<td>Registration</td>
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<tr>
<td>6:30-7:30 am</td>
<td>Continental Breakfast</td>
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| 7:00-7:45 am | **CHALLENGING CASES 1**  
Oral Board-style Challenging Cases: Cervical                      |
| 7:45-8:00 am | Opening Remarks                                                        |
| 8:00-9:30 am | **SCIENTIFIC SESSION 1**                                               |
| 9:30 am-4:30 pm | Exhibit Hall Open                                                      |
| 9:30-10:15 am | Beverage Break and What's New Sessions in the Exhibit Hall            |
| 10:15 am-12:00 pm | **SCIENTIFIC SESSION 2**                                     |
| 12:00-1:00 pm | • Non-CME Sponsored Lunch Symposia  
• Lunch in the Exhibit Hall                                      |
| 1:00-2:30 pm | **SCIENTIFIC SESSION 3**  
Innovative Technology Special Session: Operative Video Segments    |

## FRIDAY | FEBRUARY 25

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<tr>
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<td>Registration</td>
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<tr>
<td>6:30-7:30 am</td>
<td>Continental Breakfast</td>
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| 7:00-8:00 am | **CHALLENGING CASES 2**  
Oral Board-style Challenging Cases: Lumbar                           |
| 8:00-9:30 am | **SCIENTIFIC SESSION 4**                                               |
| 9:30 am-1:15 pm | Exhibit Hall Open                                                      |
| 9:30-10:15 am | Beverage Break and What's New Sessions in the Exhibit Hall            |
| 10:15 am-12:15 pm | **THE CAHILL CONTROVERSIES**                                         |
| 12:15-1:15 pm | • Non-CME Sponsored Lunch Symposia  
• Lunch in the Exhibit Hall                                      |
| 1:30-4:30 pm | **SPECIAL COURSE 5**  
Treatment and Complication Avoidance in the Management of Spinal Tumors |

## SATURDAY | FEBRUARY 26

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<th>Time</th>
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<tr>
<td>6:30 am-12:30 pm</td>
<td>Registration</td>
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<tr>
<td>6:30-7:30 am</td>
<td>Continental Breakfast</td>
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</tbody>
</table>
| 7:00-7:30 am | **CHALLENGING CASES 3**  
Oral Board-style Challenging Cases: Peripheral Nerve                  |
| 7:30-9:30 am | • General Spine Surgery 1/Trauma/Spinal Cord Injury Abstract Breakout Session  
• General Spine Surgery 2/Tumor/Opioids Abstract Breakout Session  
• General Spine Surgery 3/Peripheral Nerve/Basic Science Abstract Breakout Session  
• Spinal Deformity Abstract Breakout Session                         |
| 9:30-11:15 am | **SCIENTIFIC SESSION 5**                                               |
| 11:15 am-12:10 pm | **SPECIAL SESSION: BUSINESS OF NEUROSURGERY**                         |
| 12:10-12:30 pm | DSPN Business Meeting                                                  |
| 12:30 pm   | Meeting Adjourns                                                       |
2022 HONORED GUESTS AND MERITORIOUS Awardee

Mark E. Shaffrey
University of Virginia
Neurosurgery Meritorious Award

John J. Knightly
Atlantic Neurosurgical Specialists
Neurosurgery Honored Guest

Allan D. Levi
University of Miami
Peripheral Nerve Honored Guest

Todd J. Albert
Hospital of Special Surgery
Orthopedics Honored Guest

Opening Reception
WEDNESDAY
6:30-9:00 pm
Partake in an impressive poolside experience and listen to live music while enjoying a lavish array of food and beverages as you network with friends and colleagues at the Opening Reception. Each medical attendee and spouse/guest registered for the meeting will receive one complimentary ticket.

WINS Reception
FRIDAY
5:00-6:00 pm
Reconnect with friends and colleagues from WINS and forge new connections during this hour-long reception and networking event.

Young Spine Surgeons’ Reception and Dinner
FRIDAY
6:00-8:00 pm
All residents, fellows, and young spine surgeons are invited to enjoy a delicious dinner with 2022 Spine Summit Honored Guests as well as the Meritorious Award Recipient. Please submit your RSVP when registering for the 2022 Spine Summit.
NEW! Cervical Spinal Trauma: What Every Spine Surgeon Needs to Know

Course Directors: R. John Hurlbert, Eve C. Tsai

Course Description: This course is targeted for the practicing spine surgeon at a trauma center. We will review current guidelines and strategies on treating spine trauma and spinal cord injury as well as discuss novel and future therapies for spinal cord injury.

Learning Objectives:
- Discuss the various scoring systems for spinal stability in trauma
- Describe optimal timing of surgery
- Discuss current spine clearance protocols
- Describe novel therapeutics for SCI

Spinal Deformity: Applying Current Deformity Concepts to Your Practice: A Case-Based Approach in collaboration with AOSNA

Course Directors: Dean Chou, Kai-Ming Fu, Eric Klineberg
Speakers: Darrel S. Brodke, Dean Chou, John France, Kristen E. Jones, Isaac O. Karikari, Eric Klineberg, Darryl Lau, Daniel M. Sciuabba, Michael S. Virk

Course Description: Through an interactive case-based format, this course will address deformity concerns commonly encountered by the practicing spine surgeon.

Learning Objectives:
- Identify deformity principles in regards to degenerative pathology
- Analyze the current state of less invasive techniques and deformity
- Understand the limitations of less invasive techniques in advanced deformity cases

Introduction to Spinal Coding: From Decompression to Deformity

Course Directors: Mark E. Oppenlander, John K. Ratliff
Speakers: Mohamad Bydon, Kurt M. Eichholz, Oren N. Gottfried, Michele M. Johnson, Jeffrey P. Mullin, Mark E. Oppenlander, Gabriel A. Smith, Khoi D. Than, Cheerring Upadhyya, Anand Veeravagu, Robert G. Whitmore

Course Description: What every graduation resident, spine fellow, or young attending needs to know about coding spinal procedures in the first few years of practice. Origins of CPT and RVU will be presented along with the fundamentals of spinal coding. The course then transitions to case-based coding. The entire spectrum of spine cases from decompression to complex deformity will be presented and the correct coding reviewed.

Learning Objectives:
- Understand the origins of CPT, RVU and the RUC process
- Demonstrate knowledge in the correct application of CPT codes for a variety of spinal procedures
- Identify elements of practice management with an emphasis on spine
SPECIAL COURSE 4 $200
1:30-5:30 pm
Novel and Emerging Technologies in Spine Surgery
in collaboration with SMISS
Course Directors: Paul Park, Juan S. Uribe
Course Description: This course will cover the latest technological advances in the field of spinal surgery including surface technology, new biologics for fusion, expandable cages, new applications for navigation, robotics, among others. Many of these innovations have the potential to improve surgical efficiency, safety, and outcomes. Attendees will gain a better understanding of the basis for the technology, its applications clinically, evidence for the technology, outcomes and costs. This course is both didactic and hands on.
Learning Objectives:
- Identify current evidence supporting newer technologies such as expandable cages and surface technology
- Identify the role of robotics and its integration into spinal surgery
- Understand new applications for spinal navigation in minimally invasive and deformity surgery
- Evaluate the potential benefits of new imaging technology such as exoscopes

SEMINAR FOR APRNs and PAs 3:00-5:00 pm
Complimentary for Registered Nurses and PAs
Course Directors: Sara M. McEvoy, Eric A. Potts
Speakers: Scott Behjani, Megan Bellman, Kendra Clark, Claire Duffy, Andrea Fox, Angelie Jolivette, Gina Rizzo, Andrea L. Strayer
Course Description: Neurosurgery Advanced Practice Providers and Physician Assistants are the target audience for this course, which will cover the preoperative evaluation, perioperative management and postoperative management of neurosurgical spine patients. Special emphasis will be on teamwork, non-narcotic pain control, communication and use of order sets.
Learning Objectives:
- Generate a differential diagnosis for leg and arm pain
- Identify the impact of comorbidities on patient outcomes
- Describe the impact of preoperative and postoperative patient communication and setting expectations
- Identify the impact preoperative opioid use on postoperative pain control

SPECIAL COURSE 5 $150
1:30-4:30 pm
Treatment and Complication Avoidance in the Management of Spinal Tumors
Course Directors: Ilya Laufer, John H. Shin
Course Description: This seminar is designed to review the myriad presentations of spinal tumors and to discuss the multi-disciplinary management options involving medical, radiation and surgical treatments. Participants are encouraged to prepare and present cases for discussion.
Learning Objectives:
- Analyze various surgical techniques to address spinal tumor pathologies
- Identify Applications of new technologies in spine tumor surgery
- Discuss complication avoidance strategies in tumor surgery

SPECIAL COURSE 6 $150
1:30-4:30 pm
Spine Summit Grand Rounds: Difficult Cases- The Decision-Making Dilemma
Course Directors: Ali A. Baaj, Langston T. Holly
Speakers: Sigurd Berven, Victor W. Chang, Dean Chou, James S. Harrop, Langston T. Holly, Gregory M. Mundis
Course Description: Spine Summit Grand Rounds is a course with the focus on Spine Section member participation. This course is intended for audience members to bring difficult cases they have managed or are currently managing, where they would like to seek an opinion from the panel of experts. Attendees who submit a case that is accepted for the course will receive complimentary registration to this course. Submitted cases are reviewed by the course directors who make the final decision.
Learning Objectives:
- Describe a variety of decision-making approaches in the complex case
- Demonstrate knowledge base in complication management in cervical and lumbar operations
- Discuss complication avoidance strategies for management of complex lumbar and cervical conditions

REGISTER BY JANUARY 28, 2022, TO SAVE AT SPINESECTION.ORG.
SPECIAL COURSE 7 $150
1:30-4:30 pm
Starting Your Career: Practical Tips for Success
Course Directors: Owoicho Adogwa, Alexander E. Ropper
Speakers: Michael Bohl, Byron Branch, Daniel C. Lu, Wilson Z. Ray, Daniel K. Resnick, Laura A. Snyder, Marjorie C. Wang, Christina H. Wright
Course Description: This course addresses neurosurgery and neuroscience research across the continuum of scientific inquiry: clinical research, translational research, comparative effectiveness research, and bench/basic science research. In this comprehensive course, you will hear from scientific leaders in neurosurgery/neuroscience research, about surgeon- and institutional-level factors that enhance your success as an early career investigator. The course will be beneficial to neurosurgery residents and junior faculty interested in pursuing careers as surgeon-scientists/researcher.
Learning Objectives:
- Understand contract negotiation and your first job as a surgeon-researcher: key components that lead to increased likelihood of early career success
- Demonstrate knowledge of the different types of research methodologies and keys to success in each
- Identify the progression from hypothesis generation to a fundable project
- Understand how to align clinical and research interest for success as an early career investigator
- Explain how to draft a specific-aims page
- Demonstrate how to publish in high impact journals

SPECIAL COURSE 8
1:30-4:30 pm
Practical Matters: Hands-On Operating Room Preparation for the APP
Complimentary for Registered Nurses and PAs
Course Directors: Nicole LeFevre, Corinna C. Zygourakis
Speakers: Andrea Fox, Nicole LeFevre, Eric Potts, Nick Theodore, Anand Veeravagu, C. Zygourakis
Course Description: This course will teach the must-have knowledge and skills to ensure success in the operating room for every Advanced Practice Provider.
Learning Objectives:
- Identify basic anatomy and screw placement from the occiput to the ilium
- Discuss procedure-specific patient positioning
- Demonstrate operative techniques including: suturing, drilling, and placing screws
SCIENTIFIC SESSION 1
8:00-9:30 am
Moderators: Charles A. Sansur, Laura A. Snyder
Speakers: Tim E. Adamson, Adam S. Kanter, Rick Sasso, Michael P. Steinmetz, William Taylor
Learning Objectives:
- Describe the future direction of MIS deformity surgery
- Demonstrate understanding of how the evolution of technology has changed the current management of single level spondylolisthesis
- Identify future directions of motion preservation surgery
MIS Deformity: How Far We Have Come and What’s Next
Discussion
Prone Single Position Lateral: Early Results, Does it Live up to the Hype
Discussion
How Has Technology Changed the Management of Single Level Spondylolisthesis?
Discussion
Cervical Motion Preservation in the Future: Arthroplasty
Discussion
Cervical Motion Preservation in the Future: Endoscopic Laminoforaminotomy
Discussion and Summary of the Session

SCIENTIFIC SESSION 2
10:15 am-12:00 pm
Moderators: Erica F. Bisson, Scott A. Meyer
Learning Objectives:
- Describe the evolution of private practice spine surgery
- Describe future trends of orthopedic spine surgery
- Recognize the role of PN surgery and how it has transformed over the last decade
Introduction of Neurosurgery Honored Guest
Neurosurgery Honored Guest Presentation
Introduction of Orthopedics Honored Guest
Orthopedics Honored Guest Presentation
Introduction of Peripheral Nerve Honored Guest
Peripheral Nerve Honored Guest Presentation
Introduction of DSPN Chair
DSPN Chair’s Address

SCIENTIFIC SESSION 3
1:00-2:30 pm
Innovative Technology Special Session: Operative Video Segments
Moderators: Regis W. Haid, R. John Hurlbert
Speakers: Frank La Marca, Praveen V. Mummaneni, Peter G. Passias, Jian Shen, Juan S. Uribe, Jean-Paul Wolinsky.
Learning Objectives:
- Recognize a variety of the nuances of minimally invasive transforaminal lumbar interbody fusions
- Identify those patients who are ideal candidates and technical nuances for cervical endoscopic spine surgery
- Discuss workflow in the use of robotics in deformity surgery
Lateral Retropleural Approach for Thoracic Discectomy and Corpectomy
Discussion
MIS TLIF: Nuances and Experience
Discussion
Cervical Endoscopy: How I Do It
Discussion
PSO: Technique and Pearls
Discussion
Tumors at the Occipitocervical Junction, Considerations for Spine Surgeons
Discussion
Robotics in Deformity: Workflow and Process
Discussion and Summary of Session
Hear speakers present on a wide variety of topics throughout the conference.

FRIDAY | FEBRUARY 25

**SCIENTIFIC SESSION 4**
8:00-9:30 am

**Moderators:** Zoher Ghogawala, Christopher E. Wolfla

**Speakers:** Anthony Asher, Sigurd Berven, Matthew McGirt, Praveen V. Mummaneni, Daniel M. Scibba, Jennifer Strahle, Ann R. Stroink

**Learning Objectives:**
- Identify future directions of Deformity Surgery
- Identify future directions of MIS
- Understand future directions of the practice of spine surgery

**Where Will Technology Take Us in 10 Years: Deformity**
**Where Will Technology Take Us in 10 Years: MIS**
**Where Will Technology Take Us in 10 Years: Spinal Oncology**
**Where Will Spine Surgery be in 10 Years: Regulatory Challenges and Evolving Landscapes**
**American Spine Registry and Predictive Analytics**
**Digital Remote Patient Monitoring: Future Applications and Potential**

**Questions and Session Conclusion**

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**BUSINESS OF NEUROSURGERY**
in Collaboration with CSNS
11:15 am-12:10 pm

**Moderators:** Joseph Cheng, Jeremy Phelps

**Speakers:** Owoicho Adogwa, Byron Branch, Joseph Cheng, Yakov Gologorsky, Jeremy Phelps, Justin Stavrin, Jeremy Steinberger, Luis M. Tumialan

**Learning Objectives:**
- Identify the changes in coding and reimbursement that impacts a neurosurgery spine practice
- Understand documentation requirements to facilitate authorization of imaging and surgeries
- Discuss the variables used by hospital systems to identify the financial impact of a spinal neurosurgeon
- Demonstrate an understanding of the variables associated with contracts for a successful neurosurgery position

**Introduction**
**Coding Updates 2022 for Spine**
**New E&M Coding: What Neurosurgeons Need to Know**
**Growing your Spine Practice in the Modern Marketplace**
**Employed Physicians: Pearls and Pitfalls in Contract Negotiations**
**Key Points in Neurosurgical Contracts**
**Building Templates to Manage and Prevent Denials**
**Panel Discussion**

*All speakers and topics are subject to change*

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SATURDAY | FEBRUARY 26

**SCIENTIFIC SESSION 5**
9:30-11:15 am

**Moderators:** Rusty Rodts, Wilson Z. Ray

**Speakers:** Joseph T. Alexander, Erica F. Bisson, Michael W. Groff, Daniel K. Resnick, Christopher I. Shaffrey, Laura A. Snyder, Michael P. Steinmetz, Luis M. Tumialan

**Learning Objectives:**
- Discuss strategies to increase diversity and inclusion in the spine surgery workforce
- Understand the importance of spine surgeon and industry partnerships
- Describe the changing landscape of spine surgery both in academic and private practice

**Recognition of Award Winners of Kuntz Scholars and Introduction of J.A.N.E. and Mayfield**

**J.A.N.E. and Mayfield Award Presentations**

**Introduction**
**Strategies to Increase Diversity and Inclusion in the Spine Surgery Workforce**
**What is the Future of Private Practice?**
**The Academician of the Future**
**Recognition of Neurosurgery Meritorious Award: Mark E. Shaffrey**
**Strategies to Avoid Burnout in Spine Surgery**
**How Spine Surgeons can Partner with Industry Ethically and Effectively**
**What I Wish I Knew When I Started Practice**
**Questions from the Audience and Session Conclusion**
PRELIMINARY SCIENTIFIC PROGRAM

REGISTER BY JANUARY 28, 2022, TO SAVE AT SPINESECTION.ORG.

| EXCITING INDUSTRY SESSIONS |

**NON-CME SPONSORED LUNCH SYMPOSIA**

- **Wednesday** 12:00-1:00 pm
- **Thursday** 12:00-1:00 pm
- **Friday** 12:15-1:15 pm

Join our corporate partners where they will present the latest cutting-edge technology while enjoying lunch provided by the section.

**WHAT’S NEW SESSIONS**

- **Thursday** 9:30-10:15 am
- 2:30-3:15 pm
- **Friday** 9:30-10:15 am

Join your peers during daily beverage breaks on Thursday and Friday, as speakers share the latest in cutting-edge research and technology.

**EXHIBIT HALL**

- **Thursday** 9:30 am-4:30 pm
- **Friday** 9:30 am-1:15 pm

Find the latest spine and peripheral nerve technology in the Exhibit Hall. Take time to explore the hall and enjoy one-on-one discussions and demonstrations with our exhibitors. Learn about the devices and new technologies that can advance your practice.

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| 2021 EXHIBITORS |

- 4WEB Medical
- Accelus
- American Spine Registry
- Amplify Surgical
- Aspen Medical Products
- ATEC Spine
- Augmedics
- Axis Spine
- Biologica Technologies
- Bioventus
- Brainlab
- Camber Spine
- Carbofix Spine
- Carlsmed
- Centinel Spine
- Cerapedics
- DePuy Synthes
- DJO
- DuraStat
- Elevation Spine
- Eminent Spine
- Gauthier Biomedical
- Globus Medical
- HD LifeSciences
- Intrinsic Therapeutics
- Isto Biologics
- Joimax
- Kuros Biosciences
- Medtronic
- MERI
- Misonix
- NuVasive
- Olympus
- Orthofix
- Pacira BioSciences
- RlWOSpine
- SeaSpine
- SI-BONE
- SolCo Biomedical Corp
- Spinal Elements
- Spine Wave
- Spineart
- Spineology
- Stryker
- Surgalign
- Surgeons Capital
- Synaptive Medical
- Theracell
- TrackX
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 Congress of Neurological Surgeons 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 CNS designates this live activity for a maximum of 28 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 19.50 AMA PRA Category 1 Credits™ may be earned for Scientific Sessions only.

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 an eligible half-day Special Course. Attendees will earn an additional 2 AMA PRA Category 1 Credits™ for attending the Wednesday evening Dinner Seminar. Attendees will receive a maximum of 2.75 AMA PRA Category 1 Credits™ for an eligible Friday afternoon Special Course. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nursing Credit
The American Board of Neuroscience Nursing (ABNN) accepts attendance at educational activities approved for CME credit for CNRN or SCRN recertification. The educational activity must be specific to neuroscience or stroke and a course agenda may be required for any sessions that do not explicitly indicate neuroscience content. One CME credit hour equals one (1) CE hour.

For more information regarding recertification requirements, please contact the ABNN directly at 847-375-4733. Check the following websites for additional requirements: CNRN and SCRN.

Physician’s Assistant Credit
The American Academy of Physicians Assistants (AAPA) and The National Commission on Certification of Physician Assistant (NCCPA) accepts attendance at educational activities from an ACCME accredited provider. One CME credit hour equals one(1) AAPA Category 1 CME credit. Education credits can be submitted by logging into the online submission system for both organizations.

For more information regarding recertification requirements, please contact the organizations directly:

The National Commission on Certification of Physician Assistant- 678-417-8100 or nccpa.net. The American Academy of Physicians Assistants (AAPA) -703-836-2272 or cme@aapa.org
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 2022 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/ Child Care Services

Las Vegas is a name synonymous with spectacle; the entertainment capital of the world will leave you in awe with its impressive skyline and unique landmarks. Caesars Palace is sure to make you feel like royalty with incredible amenities, fine dining, and luxurious rooms. The hotel is conveniently located in the center-strip, right in the heart of the action. Enjoy world-class dining and entertainment just steps from the hotel.

Las Vegas isn’t all casinos and clubs it is also home to a wealth of family-friendly attractions, including the tallest observation wheel in North America, the Shark Reef Aquarium, and Adventuredome amusement park! Head out of the city for a glimpse of the breathtaking desert landscape, take a photo tour, enjoy guided off-road expeditions, or get a bird’s eye view of the Grand Canyon with a helicopter tour.

The Caesars Palace hotel concierge can also provide information on local tours, attractions, and restaurants. The concierge can be reached by calling 702-731-7266, or email at caesarspalacecvconcierge@caesars.com. This hotel does not offer childcare services; however, you may contact the concierge for childcare options.

Evaluations

The evaluation process is a key component in providing cutting-edge programming at the Section on Disorders of the Spine and Peripheral Nerves 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!

No-Smoking Policy

Smoking is not permitted at any official Section on Disorders of the Spine and Peripheral Nerve Annual Meeting event. Smoking is allowed at Caesars Palace in designated areas only.

Speaker Ready Room

The Speaker Ready Room will be available Wednesday, February 23, through Saturday, February 26, 2022. All speakers and abstract presenters should visit the Speaker Ready Room at least one hour prior to their presentations.

Register today at spinesection.org
Hotel Accommodations
Caesars Palace offers luxury accommodations and amenities your whole family is sure to enjoy, from fine dining to a host of recreation activities. Smoking is allowed in designated areas only.

Resort Amenities
- Luxurious on-site spa
- 7 pool experiences
- Forum shops, Las Vegas’s definitive shopping experience

Hotel Room Rates*

<table>
<thead>
<tr>
<th></th>
<th>Single</th>
<th>Double</th>
<th>Triple</th>
<th>Quad</th>
</tr>
</thead>
<tbody>
<tr>
<td>Palace Tower</td>
<td>$270.98</td>
<td>$270.98</td>
<td>$304.99</td>
<td>$339.01</td>
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<tr>
<td>Julius Tower</td>
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<td>$259.64</td>
<td>$393.65</td>
<td>$327.67</td>
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</tbody>
</table>

* 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.
* Additional Guests: $30 additional per guest 18 years and older over two guests in the room up to the maximum occupancy for the room type booked, included in above rates
* The above rates do not include an additional $35 per room per night mandatory resort fee

These special rates are only available until the January 28, 2022, 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 based on availability three days prior to and three days after the official meeting dates of February 23-26, 2022. Confirmation for dates other than official meeting dates, made prior to the cut-off date, will be based on availability.

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 Spine Summit before making your hotel arrangements. Rooms are subject to availability. Reserve your room by January 28, 2022. Reservations can be made online or via phone. Visit spinesection.org to make your reservation today!

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. 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 January 28, 2022
- 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 January 29, 2022
- 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.
- Check your hotel confirmation and contact the hotel directly for information.

Support the Section on Disorders of the Spine and Peripheral Nerves by booking your hotel room for the Annual Meeting through the DSPN Housing Center. In order to obtain the necessary meeting and exhibit space at the hotel, the Section on Disorders of the Spine and Peripheral Nerves must commit to a minimum number of guest rooms. If that commitment is not fulfilled, the Section will incur significant financial penalties and have difficulty obtaining sufficient meeting space in the future. Unfortunately, this can have a major impact on the member services and programs that the Section is able to offer in the future. We appreciate your commitment to the Section by staying at Caesars Palace.

Airline Discounts
The Section on Disorders of the Spine & Peripheral Nerves is pleased to offer discounts with the below airlines. Discount codes can only be used when booking directly through the airline website.

<table>
<thead>
<tr>
<th>Discount Codes</th>
<th>American Airlines</th>
<th>United Airlines</th>
<th>Delta Airlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code: ZKF2</td>
<td>Agreement Code: 272639</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Transportation to the Hotel
Caesars Palace is conveniently located just three miles from McCarran International Airport.

- $15 - $20 average costs for Uber or Lyft
- $25 approximate taxi fare each way
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:
• Daily Continental Breakfast
• Daily Beverage Breaks
• Daily Scientific Sessions
• Entrance to the Exhibit Hall
• One ticket to Wednesday Opening Reception
• Complimentary Lunch with Exhibitors on Thursday and Friday

Spouse/Guest Registration Includes the Following:
• Daily Continental Breakfast
• Daily Scientific Sessions
• Entrance to the Exhibit Hall
• One ticket to Wednesday Opening Reception

Child Registration
Although there is no registration fee, children under 18 years of age should register for the 2022 Spine Summit to receive a badge, which includes access to:
• One ticket to Wednesday Opening Reception
• Daily Continental Breakfast

Special Note: Children under the age of 18 are not allowed on the exhibit hall floor.

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

On-site Registration Hours
Wednesday, February 23
11:00 am-5:30 pm
Thursday, February 24
6:30 am-6:30 pm
Friday, February 25
6:30 am-4:30 pm
Saturday, February 26
6:30 am-12:30 pm

Cancellation Date Schedule
All refund requests must be received in writing by February 7, 2022.
Requests accepted via:
E-mail: dspn@mcievents.com
Fax: (972) 349-7715

Before February 9, 2022
Registration = Full Refund less $100 processing fee. Special Courses, Symposia and Events will be refunded in full until this date.

After February 10 and No Shows
Refunds may be issued on a case-by-case basis after this date for Registration, Special Courses, Symposia, and Events regardless of cause.

Meeting Registration Fees

<table>
<thead>
<tr>
<th>Registration Category</th>
<th>Received on or Before January 28, 2022</th>
<th>Received After January 28, 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spine Section Member</td>
<td>$600</td>
<td>$800</td>
</tr>
<tr>
<td>Orthopedic Surgeon/ACOS*</td>
<td>$600</td>
<td>$800</td>
</tr>
<tr>
<td>NASS / SRS / SIMSS / ISASS Members</td>
<td>$600</td>
<td>$800</td>
</tr>
<tr>
<td>AO Spine / CSRS / ACSR Members</td>
<td>$600</td>
<td>$800</td>
</tr>
<tr>
<td>Non-member / Non-physician, Non-member</td>
<td>$750</td>
<td>$950</td>
</tr>
<tr>
<td>Resident / Medical Student</td>
<td>$75</td>
<td>$100</td>
</tr>
<tr>
<td>Resident Non-Member</td>
<td>$75</td>
<td>$125</td>
</tr>
<tr>
<td>Nurse/Nurse Practitioner/Physician Assistant**</td>
<td>$125</td>
<td>$200</td>
</tr>
<tr>
<td>Spouse/Guest</td>
<td>$100</td>
<td>$130</td>
</tr>
<tr>
<td>Child</td>
<td>$0</td>
<td>$0</td>
</tr>
</tbody>
</table>

*Orthopedic Surgeon/ACOS Member Registration includes one-year complimentary adjunct membership.
**The first 50 registrants in the NP/PA/Nurse category will receive complimentary registration!
JOIN US!

FEBRUARY 23-26, 2022
LAS VEGAS, NEVADA

ADVANCE REGISTRATION DEADLINE:
FRIDAY, JANUARY 28, 2022
TRANSFORMATIVE TECHNOLOGIES