Joint Section on Pain
2020 Annual Meeting
The Science of Pain Treatments Meets Everyday Practice

March 5-7, 2020
The Cosmopolitan of Las Vegas
Las Vegas, Nevada

Advance Registration Deadline: Friday, February 7, 2020

cns.org/pain
The Joint Section on Pain 2020 Annual Meeting, held in conjunction with the Spine Summit, is a two-day event held at the Cosmopolitan of Las Vegas that focuses on modalities for the treatment of spinal and peripheral nerve disease beyond decompression and stabilization. Themed “The Science of Pain Treatments Meets Everyday Practice,” this year’s meeting will feature leaders in the field discussing cutting-edge pain technologies, novel surgical techniques, and the science to support them. Integrate additional techniques into your general neurosurgical, spine, peripheral nerve, and pain practices.

MEETING PURPOSE
The purpose of the Joint Section on Pain 2020 Annual Meeting is to provide continuing medical education to neurosurgeons, orthopedic surgeons, pain physicians, fellows, residents, physician extenders, and nurse clinicians involved in the practice of surgery for pain, including spine and peripheral nerve surgery. Education is provided in the form of didactic lectures, case presentations and debates, exhibits presenting the newest instruments and techniques, and oral and digital poster presentations providing the latest information regarding clinical advances in surgery for pain.

LEARNING OBJECTIVES
Upon completion of this meeting, participants will be able to:
- Adapt one or more pain management/neuromodulation therapies into your spine practice
- Identify strategies to help build your pain practice
- Explain the principles behind patient selection for neuromodulation
- Apply current research and understand new novel therapies within neuromodulation

ACCREDITATION STATEMENT
The Congress of Neurological Surgeons is accredited by the Accreditation Council of Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA PRA Category 1 Credits™ Designation Statement
The Congress of Neurological Surgeons designates this live activity for a maximum of 11 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

MEETING SCHEDULE

**THURSDAY, MARCH 5, 2020**

11:00 am–5:30 pm  
Registration

1:30–5:30 pm  
**SPECIAL COURSE 3**  
Challenges in the Surgical Treatment of Pain

(Combined with Spine Summit)

**Course Directors:** Steven M. Falowski, Line G. Jacques, Mark A. Mahan, Jason M. Schwalb, William S. Rosenberg

**Speakers:** Allan J. Belzberg, Nicholas M. Boulis, Justin M. Brown, Jonathan Miller, Zaman Mirzadeh, Konstantin V. Slavin, Robert J. Spinner, Jennifer A. Sweet, Christopher J. Winfree

**Course Description:** This course will explore the diverse surgical options for treatment of pain including decompression; neurologic reconstruction; ablative and stimulation procedures, including up-to-date research findings on clinical evaluation, patient reported outcomes, procedural options and outcomes. New and emerging technologies will be discussed, including the rational use and expectations of developing therapies, especially for the non-narcotic treatment of pain.

1:30–1:35 pm  
**Introduction**  
Mark A. Mahan, William S. Rosenberg

1:36–1:50 pm  
**Reconstruction for Pain: New Surgical Treatments for Neuromas**  
Mark A. Mahan

1:51–2:05 pm  
**Ablative Surgery: DREZotomy, Cordotomy**  
William S. Rosenberg

2:06–2:20 pm  
**Decompression Surgery: Can it Work for Pain?**  
Allan J. Belzberg

2:21–2:35 pm  
**Medical Management: Non–narcotic Regimens**  
Christopher J. Winfree

2:36–2:50 pm  
**Pre–operative Decisions: How to Manage the Psychiatric Difficulties**  
Jennifer A. Sweet

2:51–3:20 pm  
**Panel Discussion**  
Justin M. Brown, Nicholas M. Boulis, Robert J. Spinner

3:20–3:25 pm  
**Break**

3:26–3:50 pm  
**Dorsal Root Ganglion Stimulation: When to Use**  
Line G. Jacques

3:51–4:05 pm  
**Epidural Stimulation: Update on Waveforms**  
Jeffrey E. Arle

4:06–4:20 pm  
**Perioperative Nerve Stimulation: Is it Successful**  
Konstantin V. Slavin

4:21–4:35 pm  
**Intrathecal Pumps: Who is the Right Patient**  
Zaman Mirzadeh

4:36–4:50 pm  
**Integrating Pain Treatments into your Spine Practice**  
Steven M. Falowski

4:51–5:20 pm  
**Panel Discussion**  
Steven M. Falowski, Jonathan Miller, Jason M. Schwalb

---

Register for the Spine Summit and Pain Annual Meeting to save $200!
FRIDAY, MARCH 6, 2020

6:30 am–6:30 pm
Registration

6:45–7:45 am
Sponsored Breakfast Symposium

7:45–8:00 am
Opening Remarks
Steven M. Falowski, William S. Rosenberg

SCIENTIFIC SESSION I
Novel Technologies in Our Practice
8:01–8:22 am
Resurgence of Ablative Procedures
Zaman Mirzadeh

8:23–8:45 am
Non-Invasive and Wearable Neurmodulation
Peter Konrad

8:46–9:08 am
The Breakdown of Current Neurmodulation Devices
Vishad V. Sukul

9:09–9:30 am
Elucidating Mechanisms of Action with New Technology
Steven M. Falowski

9:30–10:15 am
Beverage Break in the Exhibit Hall

SCIENTIFIC SESSION II
Practice Management
10:16–10:41 am
Integration Into Your Practice
William S. Rosenberg

10:42–11:07 am
Decompression versus Neurmodulation
Joshua M. Rosenow

11:08–11:33 am
Neurmodulation Options: DRG/SCS/PNS/PENS
Jeffrey E. Arle

11:34 am–12:00 pm
Minimally Invasive Spinal Procedures (Kypho/VB Ablation/Interspacers)
Erika A. Petersen

12:00–1:00 pm
Sponsored Lunch Symposium

SCIENTIFIC SESSION III
Facial Pain
1:01-1:22 pm
Classification
Sharona Ben-Haim

1:23–1:44 pm
Deep Brain and Intracranial Stimulation for Facial Pain
Sean J. Nagel

1:45–2:06 pm
Peripheral Nerve Stimulation for Facial Pain
Chengyuan Wu

2:07–2:30 pm
Is Rhizotomy First Line Treatment for Facial Pain?
Ahmed M.T. Raslan

2:30–3:15 pm
Beverage Break in the Exhibit Hall

SCIENTIFIC SESSION IV
Challenging Cases
3:16–3:34 pm
Pump versus SCS for Opioid Reduction
Jason M. Schwalb

3:35–3:53 pm
The Use of Intraoperative Neuromonitoring for SCS
Antonios Mammis

3:54–4:12 pm
Loss of Efficacy—How Do We Salvage Failing Neurmodulation?
Alon Y. Mogilner

4:13–4:30 pm
Panel Discussion
Ellen L. Air

4:30–5:30 pm
BEER AND WINE HAPPY HOUR DEBATES: ORTHOPEDICS VERSUS NEUROSURGERY (Combined with Spine Summit)

TOPIC 1: MIS for Deformity is Feasible, Cost Effective and Sustainable
4:30–4:38 pm
PRO: Minimally Invasive Deformity Results in a Lower Incidence of PJK
Neel Anand

4:39–4:47 pm
CON: MIS Deformity Surgery Under Corrects and Under Treats the Deformity
Christopher I. Shaffrey

4:48 pm–4:53 pm
Summary of Points Made by the Debaters and Questions from the Audience
Sigurd Berven

4:54–4:56 pm
PRO: Rebuttal
Neel Anand

TOPIC 2: 21st Century Rounds for a 21st Century Surgeon
5:00–5:08 pm
PRO: Virtual Rounding on Spine Patients Improves Patient Care and Patient Experience
Alexander R. Vaccaro

5:09–5:17 pm
CON: Technology Will Only Take You so Far. Be a Doctor, Round on Your Patients in Person
James S. Harrop

5:18–5:23 pm
Summary of Points Made by the Debaters and Questions from the Audience
Zoher Ghogawala

5:24–5:26 pm
PRO: Rebuttal
Alexander R. Vaccaro

5:27–5:29 pm
CON: Rebuttal
James S. Harrop

5:30–6:00 pm
TOPIC 3: Preservation of Motion at the Lumbosacral Junction is a Good Thing
5:30–5:38 pm
PRO: Lumbar Arthroplasty is Alive and Well and Underutilized
Rolando Garcia

5:39–5:47 pm
CON: Fusion of the Lumbosacral Spine is Part of the Natural Aging Process, Just Fuse It
Juan S. Uribe

5:48–5:53 pm
Summary of Points Made by the Debaters and Questions from the Audience
Hyun Bae

5:54–5:56 pm
PRO: Rebuttal
Rolando Garcia

5:57–5:59 pm
CON: Rebuttal
Juan S. Uribe

6:00–6:30 pm
TOPIC 4: Spine Surgery Should Be Its Own Specialty
6:00–6:08 pm
PRO: Merge Orthopedic Spine and Neurosurgery Spine into One Spine
K. Daniel Riew

6:09–6:17 pm
CON: Neurosurgery and Orthopedic Surgery Are Better Off As They Are: Separate
Michael Y. Wang
MEETING SCHEDULE*

SATURDAY, MARCH 7, 2020
(Combined with Spine Summit)

6:30 am–5:30 pm
Registration

6:30–7:30 am
Continental Breakfast

Spine Summit Scientific Session 4: Opioids and Spine Surgery
8:00–9:30 am
Moderators: Praveen V. Murmaneni, Gerald E. Rodts
Speakers: Steven M. Falowski, Richard G. Fessler, Jean–Pierre Mobasser, Jennifer A. Sweet, Michael Y. Wang

8:00–9:30 am
Strategies for Spine Surgery Without Opioids
Jean–Pierre Mobasser
8:11–8:15 am
Discussion
8:16–8:26 am
ERAS and the Impact it has on Opioid Use in Spine Surgery
Michael Y. Wang
8:27–8:32 am
Discussion
8:33–8:36 am
Introduction of the Pain Section Address
Jennifer A. Sweet
8:37–8:52 am
Pain Section Chair’s Address
Steven M. Falowski (Presented on Behalf of William S. Rosenberg)
8:53–8:56 am
Introduction of Guest Speaker Travis Rieder
Richard G. Fessler
8:57–9:27 am
America’s Opioid Dilemma: Responsible Pain Medicine During an Epidemic
Travis N. Rieder
9:28–9:30 am
Discussion and Session Summary
9:30–10:15 am
Beverage Break and What’s New Session in the Exhibit Hall

10:15–10:45 am
Topic 1: Spinal Surgery is Superior in Canada Compared to the United States
10:15–10:22 am
PRO: Canadians Manage Spine Care Better in a Single Payer System
Bradley Jacobs
10:23–10:30 am
CON: The U.S. Healthcare System Fosters Competition, Competition Offers Innovation
Joseph S. Cheng
10:31–10:36 am
Summary of Points Made by the Debaters and Questions from the Audience
R. John Hurlbert
10:37–10:42 am
PRO: Rebuttal
Joseph S. Cheng
10:43–10:44 am
CON: Rebuttal
Laurence D. Rhines
10:45–11:15 am
Topic 2: The Data is Unequivocal: A Posterior Approach at L4–5 Has Less Risk and Better Outcomes than a Lateral Approach
10:45–10:52 am
PRO: The Decade of the Transpsoas Is Over and the Decade of the MIS TLIF Has Just Begun
Praveen V. Murmaneni
10:53–11:00 am
CON: The Decade of the Transpsoas Continues: The Data and the Lessons Learned
Adam S. Kanter
11:01–11:06 am
Vote and Summary
11:07–11:09 am
PRO: Rebuttal
Praveen V. Murmaneni

11:10–11:12 am
CON: Rebuttal
Adam S. Kanter
11:13–11:15 am
Vote and Summary
11:15–11:45 am
Topic 3: Thermal Ablation of Spinal Tumors
11:15–11:22 am
PRO: Newer Technology Promises to Decrease the Need for Surgery
Laurence D. Rhines
11:23–11:30 am
CON: Definitive Intervention Once and For All is Better for the Patient
Mark H. Bilsky
11:31–11:36 am
Summary of Points Made by the Debaters and Questions from the Audience
Ziya L. Gokaslan
11:37–11:39 am
PRO: Rebuttal
Laurence D. Rhines
11:40–11:42 am
CON: Rebuttal
Mark H. Bilsky
11:43–11:45 am
Vote and Summary
11:45 am–12:15 pm
Topic 4: Spinal Cord Stimulation versus Further Surgery
11:45–11:52 am
PRO: Addressing the Underlying Structural Issue Will Help the Patient the Most
Gerald E. Rodts
11:53 am–12:00 pm
CON: Enough Surgery, Spinal Cord Stimulation Offers the Greatest Relief at the Lowest Risk
Joshua M. Rosenow
12:01–12:06 pm
Summary of Points Made by the Debaters and Questions from the Audience
Domagoj Coric
12:07–12:09 pm
PRO: Rebuttal
Gerald E. Rodts
12:10–12:12 pm
CON: Rebuttal
Joshua M. Rosenow
12:13–12:15 pm
Vote and Summary

RECEPTION WITH WINS
Join your colleagues from WINS and Spine for an hour of networking.

Handson Cadaver Session with the Masters (Non-CME) (In Conjunction with Spine Summit)
Course Director: Mark A. Mahan
In this four-hour cadaver lab, participants will learn advanced techniques in minimally invasive deformity spine surgery and peripheral nerve repair. In addition, techniques in pain management will include rotations on SCS Paddle and Percutaneous implants, Peripheral Nerve stimulators, as well as Peripheral Nerve exposure and repair. One-on-one instruction will be performed with experienced faculty using the latest state-of-the-art devices.

5:30–6:30 pm
Hands-on Cadaver Session with the Masters (Non-CME) (In Conjunction with Spine Summit)
Course Director: Mark A. Mahan
In this four-hour cadaver lab, participants will learn advanced techniques in minimally invasive deformity spine surgery and peripheral nerve repair. In addition, techniques in pain management will include rotations on SCS Paddle and Percutaneous implants, Peripheral Nerve stimulators, as well as Peripheral Nerve exposure and repair. One-on-one instruction will be performed with experienced faculty using the latest state-of-the-art devices.

* Faculty subject to change
GENERAL INFORMATION

WHO SHOULD ATTEND
Educational sessions are geared toward neurosurgeons, orthopedic surgeons, spine care specialists, fellows, and residents, and are applicable to treatment of pain.

WHAT’S INCLUDED IN THE REGISTRATION FEE?
Medical Registration includes the following:
- Daily Breakfasts, Lunches and Beverage Breaks
- Daily Scientific Sessions
- Entrance to the Exhibit Hall
- One ticket to Thursday Opening Reception
- Entry to Friday Sponsored Breakfast and Lunch Symposia

<table>
<thead>
<tr>
<th>Registration Type</th>
<th>Registration Rate through February 7</th>
<th>Registration Rate after February 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member</td>
<td>$325</td>
<td>$525</td>
</tr>
<tr>
<td>Non-Member</td>
<td>$475</td>
<td>$675</td>
</tr>
<tr>
<td>Resident/ Fellow</td>
<td>$50</td>
<td>$100</td>
</tr>
</tbody>
</table>

FOUR WAYS TO ADVANCE REGISTER
1. Online: (credit card only)
cns.org/sections/pain
2. Phone: 800-931-9543 or 972-349-5539
3. Fax: (972) 349-7715 (credit card only)
4. Mail: Pain Section Registration and Housing Center, 6100 W. Plano Parkway, Suite 3500, Plano, TX 75093

CHILD CARE SERVICES
For guests who are interested in Child Care, call 702-698-7475 or visit https://nahusa.com.

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

SPEAKER READY ROOM
The Speaker Ready Room will be available Thursday, March 5 through Saturday, March 7. All speakers and abstract presenters should visit the Speaker Ready Room at least one hour prior to their presentations.

OPENING RECEPTION
Take in spectacular views while enjoying true Las Vegas entertainment poolside. Enjoy 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. Please note this event is held outdoors. Resort casual attire is recommended.

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

REGISTRATION CANCELLATION/REFUND POLICY
All refund requests must be received in writing by February 17. Requests accepted via: Email: dspn@mcievents.com Fax: 972-349-7715

CANCELLATION DATES:
Before February 17: Full refund less $100 processing fee
After February 17 and No-Shows: No refunds will be issued after this date, regardless of cause.

HOTEL ACCOMMODATIONS
The Cosmopolitan of Las Vegas offers luxury accommodations and amenities your whole family is sure to enjoy, from fine dining to a host of recreation activities.

RESORT AMENITIES
Luxurious on-site spa; Three distinct pool experiences; 100,000-square-foot casino; and more!

Hotel Room Rates
Standard Room
Single $293.65*
Double $333.34*
Quad $373.02*

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.

Full refund less $100 processing fee in writing by February 17, 2020.

These special rates are only available until February 7, 2020, cut-off date. The Joint Section on Pain cannot guarantee the availability of this rate after the cutoff date.

HOTEL RESERVATION INFORMATION AND DEADLINES
Hotel reservations are only available to registered attendees. You must first register for the Section on Pain Annual Meeting before making your hotel arrangements. Rooms are subject to availability. Reserve your room by February 7, 2020.

HOTEL CONFIRMATIONS, CANCELLATIONS, OR CHANGES
FEBRUARY 21
- All changes and cancellations are subject to availability and cancellations may be made online at www.cns.org/sections/pain or via email at dspn@mcievents.com.

FEBRUARY 22
- All changes and cancellations must be made directly with the hotel.
- The Cosmopolitan of Las Vegas. The hotel will retain the deposit for cancellations not made at least 72 hours prior to confirmed arrival date—no exceptions.

AMERICANS WITH DISABILITIES ACT/SPECIAL NEEDS AND REQUESTS
The Joint Section on Pain 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 Joint Section on Pain Annual Meeting.

Your requirements should be sent directly to the Joint Section on Pain Housing and Registration Center by emailing dspn@mcievents.com or calling 866-931-9543. Please provide any requests at least 30 days prior to Pain Section to guarantee accommodation. Scooter and wheelchair rentals are available by contacting ScootAround, Inc. at 888-441-7575 or www.scootaround.com.

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.

TRANSPORTATION TO THE HOTEL
The Cosmopolitan of Las Vegas is located just under three miles from McCarran International airport.
- $15–$20 average costs for Uber or Lyft;
- $25 approximate taxi fare each way
- $100 for a private sedan through the hotel’s preferred transportation company, ODS limo. Visit www.odslimo.com or call 702-688-7353.

AIRLINE DISCOUNTS
The Section on Pain is pleased to offer discounts with the following airlines. Discount codes can only be used when booking through the airline website.
- American Airlines: March 2–12, 2020; Code: 2930DU
- United Airlines: March 2-11; Code: ZHQC

NO SMOKING POLICY
Smoking is not permitted at any official Joint Section on Pain Annual Meeting event. Smoking is allowed at The Cosmopolitan of Las Vegas in designated areas only.
JOIN US!

Joint Section on Pain
2020 Annual Meeting
The Science of Pain Treatments Meets Everyday Practice

Attend both Section on Pain 2020 Annual Meeting and 2020 Spine Summit March 5–8 and save $200!

March 5–7, 2020
The Cosmopolitan of Las Vegas | Las Vegas, Nevada

Advance Registration Deadline:
Friday, February 7, 2020

Don’t Miss Our Opening Reception!*
Thursday, March 5, 2020 | The Cosmopolitan of Las Vegas | Chelsea Pool

Enjoy an unforgettable night at our Cirque-themed Opening Reception you won’t forget!
- Classic rock-and-roll music and an Elvis-tribute artist
- Electrifying dance sensation as dancers perform a choreographed show on land and water
- Magical mermaids/rotating performances via multiple floating stages
- Contortionists perform mind and body-bending; chair balancers stack chairs up to 20 feet high; and more!

*One entry ticket included with registration; additional tickets can be purchased in advance.