THE SOCIETY OF NEUROLOGICAL SURGEONS

2021 ANNUAL MEETING

PRELIMINARY PROGRAM
Austin, Texas | October 15-16, 2021

Advance Registration Deadline: September 15, 2021
Jointly provided by the Congress of Neurological Surgeons CNS
THE SOCIETY OF
NEUROLOGICAL SURGEONS

112th Annual Meeting
October 15-16, 2021

Advance Registration Deadline: September 15, 2021
societyns.org/2021-annual-meeting
The Society of Neurological Surgeons holds as its principal mission:  
To advance the quality of care of neurosurgical patients by promoting excellence in education and research.

The Society fulfills its mission by pursuing the following goals:

- Continue development of the field of neurological surgery, including graduate and postgraduate education.
- Bestow recognition upon persons of outstanding ability and excellence in their work and teaching. Such recognition is bestowed by appointment to membership or by appearance on the program at appropriate times.
- Enhance the role and stature of neurosurgical units in academic medical centers.
- Ensure that patients with nervous system disease receive the highest quality care.
- Encourage and support research in neuroscience.

This live meeting, titled The Next 100 Years, will include lectures by renowned specialists and invited speakers, workshops, panel discussions, and opportunities for questions and answers. Attending neurosurgeons and program directors involved in neurosurgical residency training and graduate medical education are the intended audience for this program.

At the conclusion of the SNS 2021 Annual Meeting, participants will be able to:

- Evaluate challenges and opportunities to overcome threats to professionalism including unconscious bias, harassment, toxic culture, and deficient ethics.
- Analyze strategies to promote prosperity of an academic medical center.
- Implement strategies to improve resident selection and subsequently to promote effective performance evaluation and delivery of feedback.
- Implement novel methods including digital medicine, health outcomes data, virtual reality, augmented reality and simulation to improve neurosurgical patient care and neurosurgical education.

**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 13.50 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.
THURSDAY | October 14, 2021
JW Marriott Austin

3:00–5:00 pm
Executive Council Meeting

5:30–7:00 pm
Welcome Reception

FRIDAY | October 15, 2021
JW Marriott Austin

7:00 am–5:00 pm
Registration

7:00–7:45 am
Breakfast

8:00 am–12:00 pm
SESSION 1
Resident Education Looking Forward
Moderators: Sepideh Amin-Hanjani, MD; Judy Huang, MD

8:00–8:05 am
Welcome to the 2021 SNS Annual Meeting
M. Sean Grady, MD

8:05–8:35 am
RRC Insights, Decision Making Process, and Pearls for Programs
Robert E. Harbaugh, MD; Corey J. Parker, MPA

8:35–8:50 am
New Case Logs – What it Means for Residents
Daniel Lubelski, MD

8:50–9:05 am
SNS Policy on Professionalism
Karin M. Muraszko, MD

9:05–9:20 am
Curriculum for Quality Improvement & Root Cause Analysis
Michelle J. Clarke, MD

9:20–9:35 am
Program Reorganization – Research, Enfolded CAST Fellows, Resident Switches
Nicholas M. Barbaro, MD

9:35–9:55 am
Panel Q & A

9:55–10:15 am
Break

10:15–10:30 am
Challenges and Opportunities for Residency Programs after the Pandemic
Deborah L. Benzil, MD

10:30–10:45 am
Attracting the Next Generation of Medical Students
Constantinos G. Hadjipanayis, MD, PhD

10:45–11:00 am
Well-Being of Faculty & Residents - Promoting Grit/Preventing Failure
Daniel Yoshor, MD

11:00–11:15 am
Evolution of Medical Student Education and Evaluations
Stacey Q. Wolfe, MD

11:15–11:30 am
Virtual Recruitment and Interviews – Standardized Questions, Strategies for New/Small Programs
Lola B. Chambless, MD

11:30–11:45 am
Health System Science – Combining UME and GME
S. Claiborne Johnston, MD, PhD

11:45–12:00 pm
Panel–Q & A

12:00–1:00 pm
Lunch
1:00–1:05 pm  
Introduction of Grossman Award Lecture  
M. Sean Grady, MD

1:05–1:35 pm  
Grossman Award Lecture  
Michael J. Kahana, MD

1:35–1:50 pm  
Simulated and Remote Resident Training  
Carolyn Quinsey, MD

1:50–2:05 pm  
Quality Improvement in Resident Education  
Nicholas J. Szerlip, MD

2:05–2:20 pm  
Crucial Role of Diversity for the Future of Neurosurgery  
Gail Rosseau, MD

2:20–2:40 pm  
What Will the Neurosurgery Journals Look Like in the Future  
Nelson M. Oyesiku, MD; James T. Rutka, MD

2:40–3:00 pm  
Break

3:00–3:15 pm  
Debate: Should Large Meetings be Virtual?  
Anthony L. Asher, MD; Douglas Kondziolka, MD

3:15–3:30 pm  
Digital Medicine and Digital Phenotyping in Neurosurgery  
Timothy R. Smith, MD, PhD

3:30–3:45 pm  
How Big Data Will Impact Neurosurgery  
Mohamad Bydon, MD

3:45–4:05 pm  
Panel Discussion

4:05–4:15 pm  
SNS Social Media and Twitter  
Martina Stippler, MD

4:15–4:18 pm  
Introduction of Allen K. Sills, MD  
Reid C. Thompson, MD

4:18–4:48 pm  
Allen Sills, MD, NFL Chief Medical Officer

4:48–5:00 pm  
Q & A

5:00–6:00 pm  
SNS Committee Meetings  
JW Marriot Austin

CORE and Resident Courses  
CAST Meeting  
Medical Student Committee Meeting  
Research Meeting  
Executive Council New Member Orientation

6:30–9:30 pm  
Reception and Dinner
MEETING AGENDA

SATURDAY | October 16, 2021
JW Marriott Austin

7:00 am–4:00 pm
Registration

7:00–7:45 am
Breakfast

8:00 am–12:00 pm
SESSION 3
Next 100 years of Clinical Practice and How to Teach It
Moderators: Aviva Abosch, MD, PhD; Matthew G. Ewend, MD

8:00–8:15 am
Neuromodulation
Erika A. Petersen, MD

8:15–8:30 am
The future of Endovascular Neurosurgery
J D. Mocco, MD

8:30–8:45 am
The Future of Pediatric Neurosurgery
Alan R. Cohen, MD

8:45–9:00 am
Psychiatric Neurosurgery: What Does the Future Hold?
Sameer A. Sheth, MD, PhD

9:00–9:15 am
Harnessing the Immune System
Ian F. Parney, MD, PhD

9:15–9:30 am
How Machine Learning Will Change Spinal Surgery, Patient Selection and Decision Making
Christopher P. Ames, MD

9:30–9:45 am
Neurotrauma and Neurorehab
Odette Harris, MD, MPH

9:45–10:00 am
Panel Discussion

10:00–10:20 am
Break

10:20–10:28 am
ABNS Update
Steven N. Kalkanis, MD

10:28–10:36 am
Washington Committee Update
John K. Ratliff, MD

10:36–10:45 am
CAST Update
Nicholas M. Barbaro, MD

10:45–10:50 am
Introduction of 2019-2020 President:
Karin Muraszko
Deborah L. Benzil, MD; Nathan R. Selden, MD, PhD

10:50–11:20 am
Presidential Address 2019-2020
Karin M. Muraszko, MD

11:20–11:25 am
Introduction of 2020-21 President:
M. Sean Grady
Matthew A. Howard, III, MD

11:25–11:55 am
Presidential Address 2020-2021
M. Sean Grady, MD

11:55 am–12:00 pm
Passing of Gavel
M. Sean Grady, MD

12:00–1:00 pm
Lunch
1:00–4:00 pm
**SESSION 4**
Really New in the Next 100 Years
Moderators: Deborah L. Benzil, MD; Nelson M. Oyesiku, MD, PhD

1:00–1:05 pm
**Introduction of Winn Award Winner**  
E. Antonio Chiocca, MD, PhD

1:05–1:35 pm
**Winn Award Lecture**  
Murat Gunel, MD

1:35–1:40 pm
**Q & A**  
Murat Gunel, MD

1:40–1:55 pm
**Bioinformatics Tools to Improve the Quantity and Quality of Data**  
Jason Davies, MD, PhD

1:55–2:10 pm
**Use of AI in Neurosurgery**  
Omar Arnaout, MD

2:10–2:25 pm
**Break**

2:25–2:40 pm
**Role of Social Media in Neurosurgery**  
Anand Veeravagu, MD

2:40–2:55 pm
**Meeting Patient Expectations in the Coming Decade**  
Lynda J. Yang, MD, PhD

2:55–3:10 pm
**Panel Discussion**

3:10–3:13 pm
**Medical Student Teaching Award**  
Stacey Q. Wolfe, MD

3:13–3:18 pm
**Distinguished Service Award**  
M. Sean Grady, MD

3:18–3:21 pm
**Introduction of Dr. Ben Carson**  
Henry Brem, MD

3:21–3:51 pm
**From the Operating Room to the Situation Room**  
Ben Carson, MD

3:51–4:00 pm
**Q & A**
GENERAL INFORMATION

WHAT’S INCLUDED IN THE REGISTRATION FEE?
- Daily Breakfasts, Lunches, and Beverage Breaks
- Daily Scientific Sessions
- Thursday Opening Reception
- Friday Night Reception and Dinner

ADVANCE REGISTRATION
To register, please visit www.societyns.org/2021-annual-meeting and use your login information to proceed. The advance registration deadline is September 15, 2021. Member and guest registration $850. Members may register up to three guests.

EVALUATIONS
The evaluation process is a key component in providing cutting-edge programming at the SNS 2021 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!

OPENING RECEPTION
Join us for the Opening Reception at the JW Marriott Austin on Thursday, October 14 from 6:00–7:00 pm. Enjoy cocktails and light hors d’oeuvres while networking with your colleagues!

FRIDAY NIGHT RECEPTION AND DINNER
Join us for a reception and strolling dinner on Friday, October 15, from 6:30–9:30 pm. Location details coming soon!

REGISTRATION CANCELLATION/REFUND POLICY
All refund requests must be received in writing by September 15, 2021. Please send all refund requests to sns@cns.org.

CANCELLATION DATES:
Through September 15: Full refund less $100 processing fee.
After September 15 and no-shows: No refunds will be issued after this date, regardless of cause.

HOTEL ACCOMMODATIONS
JW Marriott Austin
110 E 2nd Street
Austin, TX 78701
(512) 474-4777

HOTEL RESERVATION INFORMATION AND DEADLINES
Housing for the SNS Annual Meeting is being held in conjunction with the Congress of Neurological Surgeons Annual Meeting. A block of rooms is being held at the JW Marriott Austin at a discounted group rate of $326 plus tax per night.

A credit card will be required at the time of your reservation. Each reservation requires a deposit equal to one night’s room and tax.

To make your reservation, please visit societyns.org/2021-annual-meeting.

The SNS Group Rate is only available until the cutoff date of Wednesday, September 15, 2021. The SNS cannot guarantee the availability of the group rate after this date.
GENERAL INFORMATION

HOTEL CHANGE/CANCELLATION POLICY
The deadline date for new reservations is September 15, 2021, based on availability. Please make any changes or cancellations, please contact the official housing bureau, MCI, at (800) 931-9543.

Beginning September 15, 2021
All changes, cancellations, or questions regarding your reservation must be made directly with the hotel. If cancellation notice is not received according to the hotel policy, the deposit will be forfeited. Your individual hotel’s cancellation policy can be found in your emailed confirmation.

RESORT AMENITIES
Voted as a top hotel in Texas by Conde Nast readers in 2020, JW Marriott Austin is situated in the heart of downtown Austin and brings luxury comforts with sophisticated amenities. The urban resort features an on-site spa, room service, seven bars, three restaurants, Starbucks® and the largest guest rooms in the city with floor-to-ceiling windows. Grab a bite at the ever-popular Burger Bar, a food truck concept without the wheels, or lounge on the rooftop at Edge Rooftop + Bar, with cocktails and picturesque views of the Texas State Capitol and Lady Bird Lake. The hotel is located just steps from the best attractions and entertainment options Austin has to offer.

TRANSPORTATION TO THE HOTEL
The JW Marriott Austin is located 7 miles from Austin Bergstrom International Airport (AUS). Taxis are readily available outside Baggage Claim/Arrivals Level.

AIRLINE DISCOUNTS
The SNS is pleased to offer discounts with the following airlines. Discount codes can only be used when booking through the airline’s website.

American Airlines – www.aa.com
Valid dates: October 13–23, 2021
After selecting your flights, on the “Passenger Detail” page, enter code 56H1DK in the promotion codes and accounts section box at the bottom of the screen. You will see your discount displayed in the “Cost Summary” section of the “Review and Pay” screen.

United Airlines – www.united.com
Valid dates: October 13–23, 2021
After entering your travel information on the home page, click the Advanced Search link. Verify flight information on the next screen and scroll to the bottom of this page, click the arrow next to Upgrades, certificates, and promotion codes and enter discount code ZJU4675187 into the “Promotions and certificates” box. Select find flights, all prices displayed on the next screen will now reflect the discounted prices.

Delta Airlines – www.delta.com
Valid dates: October 11–25, 2021
After entering your travel information on the home page, select the downward arrow next to the Advanced Search link. Enter discount code NMUMJ in the Meeting Code (Optional) field. All prices displayed for your flight search will now reflect the discounted prices.
GENERAL INFORMATION

ONSITE REGISTRATION HOURS
Registration on Friday-Saturday and Monday-Tuesday will take place at the MGM Grand Detroit in the Salon 3&4 Foyer. Sunday’s registration will take place at Henry Ford Hospital in the Buerki Auditorium Foyer.

<table>
<thead>
<tr>
<th>Date</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday, October 15</td>
<td>7:00 am–5:00 pm</td>
</tr>
<tr>
<td>Saturday, October 16</td>
<td>7:00 am–4:00 pm</td>
</tr>
</tbody>
</table>

AMERICANS WITH DISABILITIES ACT/SPECIAL NEEDS AND REQUESTS
The Society of Neurological Surgeons 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 SNS 2021 Annual Meeting.

Your requirements should be sent directly to the Society of Neurological Surgeons by emailing sns@cns.org or by calling 847-805-4515. Please provide any requests at least 30 days prior to the SNS Annual Meeting to guarantee accommodation.

NO-SMOKING POLICY
Smoking is not permitted at any official SNS Annual Meeting events.

QUESTIONS?
Please contact:
Society of Neurological Surgeons
10 N. Martingale Road, Suite 190
Schaumburg, IL 60173
Phone: 847-805-4515
sns@cns.org