

# THE SOCIETY OF NEUROLOGICAL SURGEONS



## 2021 ANNUAL MEETING

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



**Advance Registration Deadline: September 15, 2021**

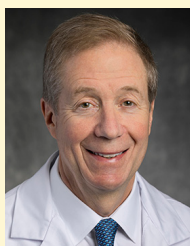
Jointly provided by the Congress of Neurological Surgeons  CNS

# THE SOCIETY OF NEUROLOGICAL SURGEONS

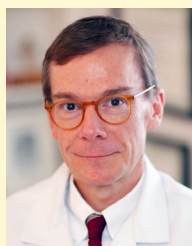
112th Annual Meeting  
October 15-16, 2021



M. Sean Grady, MD  
President (2020-2021)



Warren R. Selman, MD  
President (2021-2022)



E. Sander Connolly Jr., MD  
President Elect  
(2021-2022)



Nathan R. Selden, MD, PhD  
Secretary



Deborah Benzil, MD  
Vice President



Richard W. Byrne, MD  
Treasurer



Matthew G. Ewend, MD  
Annual Meeting Program  
Chair

## Moderators



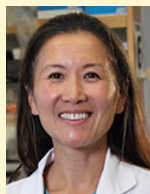
Aviva Abosch, MD, PhD



Sepideh Amin-Hanjani, MD



Judy Huang, MD



Linda M. Liau, MD, PhD,  
MBA



Nelson Oyesiku, MD, PhD



Julie G. Pilitsis, MD, PhD

**Advance Registration Deadline: September 15, 2021**  
[societyofneurosurgeons.org/2021-annual-meeting](https://societyofneurosurgeons.org/2021-annual-meeting)

# SNS MISSION / PROGRAM PURPOSE

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.

# MEETING AGENDA

## 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

# MEETING AGENDA

1:00–5:00 pm

## **SESSION 2**

### **Neurosurgery Research and Education – The Next 100 Years**

Moderators: Linda M. Liau, MD, PhD, MBA;  
Julie G. Pilitsis, MD, PhD

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, PhD; 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

#### **Practice in Rapidly Changing Environments. The NFL 2020.**

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

6:30–9:30pm

#### **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**

# MEETING AGENDA

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](http://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](mailto: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](http://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](http://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](http://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](http://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.

Friday, October 15      7:00 am–5:00 pm

Saturday, October 16    7:00 am–4:00 pm

## 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](mailto: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](mailto:sns@cns.org)

