

THE SOCIETY OF NEUROLOGICAL SURGEONS



2022 ANNUAL MEETING

Detroit, Michigan | May 21-24, 2022

PRELIMINARY PROGRAM:

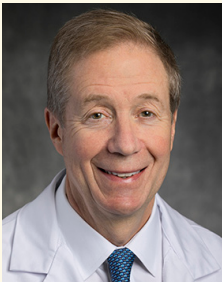
Advance Registration Deadline: April 12, 2022



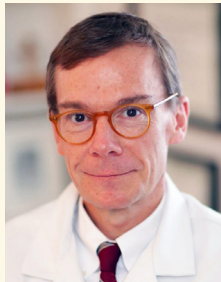
Jointly provided by the Congress of Neurological Surgeons and
the Society of Neurological Surgeons.

THE SOCIETY OF NEUROLOGICAL SURGEONS

113th Annual Meeting
May 21-24, 2022



Warren R. Selman, MD
President



E. Sander Connolly Jr., MD
President-Elect



Richard W. Byrne, MD
Treasurer



Nathan R. Selden, MD, PhD
Secretary



Deborah Benzil, MD
Vice President



Steven N. Kalkanis, MD
Local Host

Hosted by:
Henry Ford Health System
Department of Neurosurgery

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 *Innovation in Education*, 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 2022 SNS Annual Meeting, participants will be able to:

- Adopt strategies to evaluate applicants for neurosurgery residency in the new virtual environment and resist challenges to inclusive culture.
- Analyze tactics to promote and develop neurosurgery faculty of varying ranks in academic medical centers.
- Apply innovative learning theories and technology including augmented reality to improve training of future neurosurgeons and ultimately enhance neurosurgical clinical care.
- Appreciate the interactions and contributions of neurosurgeons as members of a broader neurosurgical community and multidisciplinary programs.

Accreditation Statement

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 and the Society of Neurological Surgeons. 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 24.25 *AMA PRA Category 1 Credit(s)*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

MEETING AGENDA

FRIDAY | May 20, 2022 MGM Grand Detroit

4:00-6:00 pm
Registration

SATURDAY | May 21, 2022 MGM Grand Detroit

7:00-8:00 am
Breakfast

7:00 am-5:00 pm
Registration

11:30 am-4:00 pm
SNS Executive Council Meeting

8:00-10:35 am

SESSION 1

**Transition to Neurosurgery Residency:
Selection and Mentorship at the
Undergraduate-Graduate Interface**

Moderators: *Lola B. Chambless, MD; Jonathan
Miller, MD*

8:00-8:05 am

Opening Remarks

Warren R. Selman, MD

8:05-8:20 am

The New Neurosurgery Curriculum

Nicholas C. Bambakidis, MD

8:20-8:35 am

Whom to interview? Applicant Screening and Virtual Interviewing in the Post-USMLE Era

Mark D. Johnson, MD

8:35-8:50 am

Avoiding Bias in Resident Selection: Principles of Diversity and Inclusion

Marvin Bergsneider, MD

8:50-9:05 am

The Match Rank List: What are the Characteristics of the Ideal Neurosurgery Applicant?

Edward F. Chang, MD

9:05-9:20 am

Applicant Preference Signaling: Experience with Other Specialties...Consequences for Neurosurgery

Cormac O. Maher, MD, FACS, FAAP

9:20-9:35 am

Keynote: Comprehensive Improvement of the UME-GME Transition: Implications for Neurosurgery Residency Programs

George Mejicano, MD

9:30-9:45 am

Round Table Discussion

9:35-9:45 am

Q&A

9:45-10:00 am

Break

10:05-10:45 am

Mock RRC

Moderators: *Frank P.K. Hsu, MD; Reza Yassari, MD*

10:05-10:35 am

Mock RRC

Robert E. Harbaugh, MD; Corey J. Parker

10:35-10:45 am

Q&A

10:45 am-12:25 pm

SESSION 2

Innovation in Resident Surgical Education

Moderators: *Carl G. Axelsson, MD, MMSc; Magalie
Cadieux, MD, MMSc; Roy Phitayakorn, MD*

Adult Learning Theories

Roy Phitayakorn, MD

10:45-11:00 am

Constructivism

11:00-11:15 am

Neuroscience of Learning

11:15-11:30 am

Blended Learning

11:30-11:45 am

Gamification

MEETING AGENDA

Adult Learning Theories (cont.)

11:45-12:00 am

Motor Skills

12:00 am-12:15 pm

Teaching in the OR

12:15-12:25 pm

Q&A

12:25-1:25 pm

Working Lunch Session: Virtual Surgical Simulation as a Teaching Tool

Roy Phitayakorn, MD

1:25-2:25 pm

Delivering Constructive Feedback

Roy Phitayakorn, MD

2:25-2:40 pm

Learner Evaluation: Milestones/EPA's

Roy Phitayakorn, MD

2:40-3:00 pm

Break

Program Evaluation

Roy Phitayakorn, MD

3:00-3:30 pm

Data Driven Changes

3:30-3:45 pm

Implementation Science

3:45-3:55 pm

Q&A

4:00-6:00 pm

SNS COMMITTEE MEETINGS

CoRE and Resident Courses

CAST Committee

Medical Student Committee

Research Committee

6:00-8:00 pm

WELCOME RECEPTION

One Campus Martius Skydeck

See page 10 for more information

SUNDAY | May 22, 2022

Morning programming will take place at
Henry Ford Hospital

Lunch will take place at The Henry Ford Cancer
Institute. Afternoon programming will take
place at the MGM Grand Detroit.

7:00 am-5:00 pm

Registration

7:00-8:00 am

Breakfast

8:00 am-12:00 pm

SESSION 3

Henry Ford Health System Program

8:00-8:20 am

Welcome and Introduction

Steven N. Kalkanis, MD

8:20-8:45 am

Detroit Renaissance I

Daniel Gilbert

8:45-8:55 am

All of Us

Christine Johnson, PhD, MPH

8:55-9:05 am

Henry Ford Leadership: MedPAC, NQF

David Nerenz, PhD

9:05-9:15 am

Michigan Spine Surgery Improvement Collaborative

Muwaffak Abdulhak, MD

9:15-9:25 am

N2QOD / Risk Modeling Spine Outcomes

Victor W. Chang, MD

9:25-9:35 am

PROMs Integration Into Routine Care

Jason M. Schwalb, MD

9:35-9:45 am

Evolving Operative Feedback/Continuing Education in Face of COVID-19

Ellen Air, MD, PhD

9:45-9:55 am

Research Development

Beverly C. Walters, MD, MSc

MEETING AGENDA

9:55-10:05 am

Q&A

10:05-10:25 am

Break

10:25-10:35 am

Exosomes in Stroke

Michael Chopp, PhD

10:35-10:45 am

Exosomes in Trauma

Asim Mahmood, MD

10:45-10:55 am

Liquid Biopsy

Ian Y. Lee, MD

10:55-11:05 am

Molecular Tumor Board/Avatar

Tom Mikkelsen, MD

11:05-11:15 am

Vascular/Stroke

Max K. Kole, MD

11:15-11:25 am

Spine-Neurosurgery Leading the Way

Frank LaMarca, MD

11:25-11:35 am

Skull Base/Tumor

Adam M. Robin, MD

11:35-11:50 am

HFH Neurosurgery: The International Program

Jack P. Rock, MD

12:00-1:00 pm

Lunch

1:30-5:30 pm

SESSION 4

Teaching the Teacher

Moderators: *Ellen L. Air, MD, PhD; Lawrence S. Chin, MD; Jamie Van Gompel, MD*

1:30-1:45 pm

Mentors, Sponsors and Coaches – Oh My!

Lola B. Chambless, MD

1:45-2:00 pm

Coaching – Effective Strategies

Joseph S. Neimat, MD

2:00-2:15 pm

One Size Doesn't Fit All

William W. Ashley, MD, PhD, MBA

2:15-2:30 pm

Promoting Junior Faculty

Erica F. Bisson, MD

2:30-2:45 pm

Supporting Wellness with Family and Sick Leave

Karin M. Muraszko, MD

2:45-3:25 pm

Planning for Success; History of Your Future Exercise

Ellen L. Air, MD, PhD; Joseph S. Neimat, MD

3:25-3:45 pm

Break

3:45-4:00 pm

Keeping Associate Professors Engaged

John G. Golfinos, MD

4:00-4:15 pm

It's Lonely at the Top: Navigating Complex Relationships

Lawrence S. Chin, MD

4:15-4:25 pm

Distinguished Service Award Presentation

M. Sean Grady, MD

4:25-4:30 pm

Distinguished Service Award Acceptance

Griffith R. Harsh, MD

4:30-4:35 pm

Introduction of Grossman Award Lecture

Warren R. Selman, MD

4:35-5:15 pm

Grossman Award Lecture

Mark Griswold, MD

5:15-5:30 pm

Q&A

6:30-9:30 pm

RECEPTION AND STROLLING DINNER

Detroit Institute of Arts

See page 10 for more information

MEETING AGENDA

MONDAY | May 23, 2022 MGM Grand Detroit

7:00 am-5:00 pm

Registration

7:00-8:00 am

Members Only Breakfast and Business Meeting

7:00-8:00 am

Non-Members Breakfast

8:00 am-1:00 pm

SESSION 5

Disruptive Collaborations

Moderators: Ketan R. Bulsara, MD; Carl B. Heilman, MD; Michael Lim, MD; William J. Mack, MD

8:00-8:15 am

Innovative Multidisciplinary Partnerships: Neurotology

Emily Barrow, MD

8:15-8:30 am

Innovative Multidisciplinary Collaborations: Neuroplastics

Kerry-Ann Mitchell, MD

8:30-8:45 am

Innovative Multidisciplinary Programs: Fetal Surgery/Pediatric Spinal Deformity

Mari L. Groves, MD

8:45-9:00 am

Righting the 3-Legged Stool

Deborah L. Benzil, MD

9:00-9:10 am

Q&A

9:10-9:40 am

Interactive Exercise: Building Partnerships with Faculty/Chairs/Deans/Health System CEO's

Henry Brem, MD; Linda M. Liau, MD, PhD, MBA;
Nathan R. Selden, MD, PhD

9:40-10:00 am

Break

10:00-10:15 am

Spine as Core of MSK Program – Why Should We Play Ball?

Ali Bydon, MD

10:15-10:30 am

Forging Partnerships Across the Care Continuum – Community Neurosurgeons and Referring Physicians

Marjorie C. Wang, MD, MPH

10:30-10:45 am

Disruption at the Health Care System Level Will Impact Neurosurgery

Matthew G. Ewend, MD

10:45-11:00 am

The Uphill Battle of Clinical Trials: NIH vs. Industry

Mark G. Luciano, MD, PhD

11:00 -11:15 am

War of the Worlds: Clinician vs. Scientist vs. Entrepreneur

Gelareh Zadeh, MD, PhD

11:15-11:25

Q&A

11:25-11:30 am

Introduction of President Warren Selman

Daniel L. Barrow, MD

11:30-11:55 am

Presidential Address

Warren R. Selman, MD

11:55-12:00 pm

Passing of the Gavel

Warren R. Selman, MD

12:00-1:00 pm

Lunch

12:20-12:50 pm

Historical Perspectives – Functional Neurosurgery

Robert E. Gross, MD, PhD

1:00-5:00 pm

SESSION 6

Global Neurosurgery – When the World is Flat

Moderators: Anand V. Germanwala, MD; Vikram
C. Prabhu, MD; Clemens M. Schirmer, MD

1:00-1:05 pm

Introduction of Detroit Mayor

Steven N. Kalkanis, MD

MEETING AGENDA

1:05-1:35 pm

Detroit Mayoral Address

Mayor Mike Duggan

1:35-1:45 pm

Q&A

1:45-2:00 pm

WFNS – Neurosurgery Around the World

Nelson M. Oyesiku, MD, PhD

2:00-2:15 pm

Unified by Education – FIENS

Robert J. Dempsey, MD

2:15-2:30 pm

FMG's in Residency – Who, Where and How?

Jordina Rincon-Torroella, MD

2:30-2:45 pm

Bringing the World's Best to the US – Contributions of FMG's

Ziya L. Gokaslan, MD

2:45-3:00 pm

Alternate Pathways to ABNS Certification

Elad I. Levy, MD, MBA

3:00-3:15 pm

Beyond Neurosurgery in the US

Alessandro Olivi, MD

3:15-3:30 pm

Existing Virtually Without Borders – Webinars, Podcasts

Jacques J. Morcos, MD

3:30-3:40 pm

Q&A

2:55-3:15 pm

Break

4:00-4:05 pm

Introduction of Winn Award Lecturer

4:05-4:45 pm

Winn Award Lecture

4:45-5:00 pm

Q&A

6:30-9:00 pm

GALA DINNER

MGM Grand Detroit

See page 10 for more information

TUESDAY | May 24, 2022

MGM Grand Detroit

6:30-10:00 am

Registration

6:30-7:30 am

Breakfast

7:30 am-10:00 am

SESSION 7

OR of the Future and What Our Residents Need to Know Now

Moderators: *Bernard R. Bendok MD; Michelle J. Clarke, MD; E. Sander Connolly, MD*

7:30-7:40 am

CAST Update

Charles L. Branch, MD

7:40-7:50 am

Resident Course Update

Gregory J. Zipfel, MD

7:50-8:00 am

SNS NSTP

Linda M. Liau, MD, PhD, MBA

8:00-8:10 am

ABNS Update

Steven N. Kalkanis, MD

8:10-8:20 am

Washington Committee Update

John K. Ratliff MD

8:20-8:40 am

Break

8:40-8:55 am

Prospects for Cerebrovascular Surgery in the Hybrid OR/Endovascular Suite

Louis J. Kim, MD

MEETING AGENDA

8:55-9:10 am

**Exploring Novel Frontiers with Focused
Ultrasound**

Howard Eisenberg, MD

9:10-9:25 am

Seeing Beyond Neuronavigation

David J. Langer, MD

9:25-9:40 am

Augmented Reality – Virtually Priceless

Timothy F. Witham, MD

9:40-9:50 am

Teaching Residents What They Need to Learn

Pablo F. Recinos, MD



GENERAL INFORMATION

WHAT'S INCLUDED IN THE REGISTRATION FEE?

- Daily Breakfasts, Lunches, and Beverage Breaks
- Daily Scientific Sessions
- Saturday Opening Reception
- Sunday Reception and Strolling Dinner
- Monday Gala Dinner

ADVANCE REGISTRATION

To register, please visit www.societyns.org/2022-annual-meeting and use your login information to proceed. Member and physician guest registration: \$1,350; spouse/significant other registration: \$350. Members may register up to three physician guests. **Registration rates will increase by \$50 after April 12.**

EVALUATIONS

The evaluation process is a key component in providing cutting-edge programming at the 2022 SNS 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

The Opening Reception will take place on Saturday, May 21 from 6:00-8:00 pm at One Campus Martius. Enjoy cocktails and light hors d'oeuvres while networking with your colleagues while taking in beautiful views of Detroit from the 16th floor! Transportation will depart from the MGM Grand Detroit beginning at 5:30 pm. Attire: Business Casual.

RECEPTION AND STROLLING DINNER

Join us for a reception and strolling dinner on Sunday, May 22 from 6:30–9:00 pm at the Detroit Institute of Arts, located in the heart of Midtown. Transportation will depart from the MGM Grand Detroit beginning at 6:15 pm. Attire: Business Casual.

GALA DINNER

Join us for the SNS Gala Dinner on Monday, May 22nd from 6:30-9:00 pm at the MGM Grand Detroit. A plated dinner will be served. Cocktail attire.

REGISTRATION CANCELLATION/REFUND POLICY

Before April 23, a full registration refund will be issued. Refund requests received between April 24 and May 7 will receive a 50% refund. No refunds will be given for no-shows or requests received after May 7. Written request may be emailed to sns@cns.org.

HOTEL ACCOMMODATIONS

MGM Grand Detroit
1777 3rd Avenue
Detroit, Michigan 48226
877-888-2121

MGM Grand Detroit offers luxury accommodations and amenities your whole family is sure to enjoy, from fine dining to a host of recreation activities.

GENERAL INFORMATION

HOTEL RESERVATION INFORMATION AND DEADLINES

Reservations at MGM Grand Detroit can be made online at: <https://book.passkey.com/event/50280168/owner/58724/home>

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. If making reservations on the phone, please reference the 2022 SNS Annual Meeting to receive the discounted group rate.

The SNS Group Rate is only available until the cutoff date of Friday, April 15, 2022. The SNS cannot guarantee the availability of this rate after the cutoff date.

HOTEL ROOM RATES*

Luxury King	Corner Suite
\$263.35	\$493.35

*The above rates include applicable state and local taxes.

HOTEL CANCELLATION POLICY

The hotel will refund your room deposit before 24 hours in advance of your reservation. Within 24 hours of your reservation, (1) night's room and tax are no longer refundable. Please contact the hotel directly to cancel.

RESORT AMENITIES

Amenities include a luxurious on-site spa, fitness center & indoor pool, casino, and four on-property restaurants/lounges.

TRANSPORTATION TO THE HOTEL

The MGM Grand Detroit is located 20 miles from Detroit Metropolitan Wayne County Airport (DTW). An Uber or Lyft ride costs an average of \$40 one way, and a taxi ride costs approximately \$44 each way.

AIRLINE DISCOUNTS

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

United Airlines: May 18-May 27, 2022; Code: ZKYB304003

ONSITE REGISTRATION HOURS

Registration on Friday-Saturday and Monday-Tuesday will take place at the MGM Grand Detroit. Sunday's registration will take place at Henry Ford Hospital.

Friday, May 20	4:00 pm–6:00 pm
Saturday, May 21	7:00 am–5:00 pm
Sunday, May 22	7:00 am–5:00 pm
Monday, May 23	7:00 am–5:00 pm
Tuesday, May 24	6:30 am–10:00 am

GENERAL INFORMATION

HENRY FORD HEALTH SYSTEM

On Sunday, May 22, morning programming be held at Henry Ford Hospital, 2799 W. Grand Boulevard, Detroit, MI 48202. The lunch will take place at The Henry Ford Cancer Institute, 2800 W. Grand Boulevard, Detroit, MI 48202

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 2022 SNS 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

