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 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.
**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

9:45-10:00 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

10:45-11:00 am
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

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
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 Detroit Mayor Steven N. Kalkanis, 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
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>1:05-1:35 pm</td>
<td>Detroit Mayoral Address</td>
<td>Mayor Mike Duggan</td>
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<td>1:35-1:45 pm</td>
<td>Q&amp;A</td>
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<td>1:45-2:00 pm</td>
<td>WFNS – Neurosurgery Around the World</td>
<td>Nelson M. Oyesiku, MD, PhD</td>
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<td>2:00-2:15 pm</td>
<td>Unified by Education – FiENS</td>
<td>Robert J. Dempsey, MD</td>
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<td>2:15-2:30 pm</td>
<td>FMG’s in Residency – Who, Where and How?</td>
<td>Jordina Rincon-Torroella, MD</td>
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<td>2:30-2:45 pm</td>
<td>Bringing the World’s Best to the US – Contributions of FMG’s</td>
<td>Ziya L. Gokaslan, MD</td>
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<td>2:45-3:00 pm</td>
<td>Alternate Pathways to ABNS Certification</td>
<td>Elad I. Levy, MD, MBA</td>
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<td>3:00-3:15 pm</td>
<td>Beyond Neurosurgery in the US</td>
<td>Alessandro Olivi, MD</td>
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<td>3:15-3:30 pm</td>
<td>Existing Virtually Without Borders – Webinars, Podcasts</td>
<td>Jacques J. Morcos, MD</td>
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<td>3:30-3:40 pm</td>
<td>Q&amp;A</td>
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<td>6:30-9:00 pm</td>
<td>GALA DINNER</td>
<td>MGM Grand Detroit</td>
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<td>6:30-10:00 am</td>
<td>Registration</td>
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<td>6:30-7:30 am</td>
<td>Breakfast</td>
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<td>7:30 am-10:00 am</td>
<td>SESSION 7</td>
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<td>7:30-7:40 am</td>
<td>CAST Update</td>
<td>Charles L. Branch, MD</td>
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<td>7:40-7:50 am</td>
<td>Resident Course Update</td>
<td>Gregory J. Zipfel, MD</td>
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<td>7:50-8:00 am</td>
<td>SNS NSTP</td>
<td>Linda M. Liau, MD, PhD, MBA</td>
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<td>8:00-8:10 am</td>
<td>ABNS Update</td>
<td>Steven N. Kalkanis, MD</td>
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<td>8:10-8:20 am</td>
<td>Washington Committee Update</td>
<td>John K. Ratliff, MD</td>
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<td>8:20-8:40 am</td>
<td>Break</td>
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<td>8:40-8:55 am</td>
<td>Prospects for Cerebrovascular Surgery in the Hybrid OR/Endovascular Suite</td>
<td>Louis J. Kim, MD</td>
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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.
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 will 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