THE SOCIETY OF NEUROLOGICAL SURGEONS

113th Annual Meeting
May 21–May 24, 2022

Warren R. Selman, MD
President

E. Sander Connolly, Jr., MD
President-Elect

Nathan R. Selden, MD, PhD
Secretary

Deborah L. Benzil, MD
Vice President

Richard W. Byrne, MD
Treasurer

societyns.org/2022-annual-meeting
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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.
- Describe 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 the training of future neurosurgeons and ultimately enhance neurosurgical clinical care.
- Describe 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.
## SCIENTIFIC AND SOCIAL PROGRAM

### FRIDAY, MAY 20, 2022  
**MGM Grand Detroit**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>4:00-6:00 pm</td>
<td>Registration</td>
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<td>Grand Foyer</td>
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### SATURDAY, MAY 21, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00-8:00 am</td>
<td>Breakfast</td>
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<td>Grand Salon 3 &amp; 4</td>
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<tr>
<td>7:00 am-5:00 pm</td>
<td>Registration</td>
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<td>Grand Foyer</td>
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<tr>
<td>11:30 am-4:00 pm</td>
<td>SNS Executive Council Meeting</td>
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<td>Amber 1 &amp; 2</td>
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<tr>
<td>8:00-10:45 am</td>
<td><strong>SESSION 1</strong></td>
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<td>Grand Salon 1 &amp; 2</td>
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<tr>
<td></td>
<td>Transition to Neurosurgery Residency: Selection and Mentorship at the Undergraduate-Graduate Interface</td>
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<tr>
<td></td>
<td>MODERATORS: Lola B. Chambless, MD; Frank P.K. Hsu, MD, PhD; Jonathan Miller, MD; Reza Yassari, MD</td>
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<tr>
<td>8:00-8:05 am</td>
<td>Opening Remarks</td>
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<tr>
<td></td>
<td>Warren R. Selman, MD</td>
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<tr>
<td>8:05-8:20 am</td>
<td>The New Neurosurgery Curriculum</td>
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<td>Nicholas C. Bambakidis, MD</td>
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<td>8:20-8:35 am</td>
<td>Whom to interview? Applicant Screening and Virtual Interviewing in the post-USMLE Era</td>
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<td>Mark D. Johnson, MD, PhD</td>
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<td>8:35-8:50 am</td>
<td>Avoiding Bias in Resident Selection: Principles of Diversity and Inclusion</td>
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<td>Marvin Bergsneider, MD</td>
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<td>8:50-9:05 am</td>
<td>The Match Rank List: What are the Characteristics of the Ideal Neurosurgery Applicant?</td>
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<td>Michael Lim, MD</td>
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<td>9:05-9:20 am</td>
<td>Applicant Preference Signaling: Experience with Other Specialties...Consequences for Neurosurgery</td>
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<td>Cormac O. Maher, MD</td>
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<td>9:20-9:35 am</td>
<td>Keynote: Comprehensive Improvement of the UME-GME Transition: Implications for Neurosurgery Residency Programs</td>
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<td>Jennifer L. Swails, MD</td>
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<tr>
<td>9:35-9:45 am</td>
<td>Q&amp;A</td>
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<tr>
<td>9:45-10:05 am</td>
<td>Break</td>
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<td>Grand Foyer</td>
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## SCIENTIFIC AND SOCIAL PROGRAM

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Moderators</th>
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<tbody>
<tr>
<td>10:05-10:45 am</td>
<td>Mock RRC</td>
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<td>Frank P.K. Hsu, MD, PhD; Reza Yassari, MD</td>
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<tr>
<td>10:05-10:35 am</td>
<td>Mock RRC</td>
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<td>Robert E. Harbaugh, MD; Corey J. Parker, MPA</td>
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<tr>
<td>10:35-10:45 am</td>
<td>Q&amp;A</td>
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<td>10:45 am-3:55 pm</td>
<td>SESSION 2</td>
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<td>Carl G. Axelsson, MD, MMSc; Roy Phitayakorn, MD</td>
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<tr>
<td>10:45 am-12:25 pm</td>
<td>Adult Learning Theories</td>
<td>Grand Salon 1 &amp; 2</td>
<td>Roy Phitayakorn, MD</td>
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<tr>
<td>10:45-11:00 am</td>
<td>Constructivism</td>
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<td>11:00-11:15 am</td>
<td>Neuroscience of Learning</td>
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<td>11:15-11:30 am</td>
<td>Blended Learning</td>
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<td>11:30-11:45 am</td>
<td>Gamification</td>
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<td>11:45 am-12:00 pm</td>
<td>Motor Skills</td>
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<td>12:00-12:15 pm</td>
<td>Teaching in the OR</td>
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<td>12:15-12:25 pm</td>
<td>Q&amp;A</td>
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<td>12:25-1:25 pm</td>
<td>Working Lunch Session: Virtual Surgical Simulation as a Teaching Tool</td>
<td>Grand Salon 3 &amp; 4</td>
<td>Roy Phitayakorn, MD</td>
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<tr>
<td>1:25-2:40 pm</td>
<td>Delivering Constructive Feedback and Learner Evaluation</td>
<td>Grand Salon 1 &amp; 2</td>
<td>Roy Phitayakorn, MD</td>
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<td>1:25-2:25 pm</td>
<td>Delivering Constructive Feedback</td>
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<td>2:25-2:40 pm</td>
<td>Learner Evaluation: Milestones/EPA's</td>
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<td>2:40-3:00 pm</td>
<td>Break</td>
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<td>Grand Foyer</td>
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<td>3:00-3:55 pm</td>
<td>Program Evaluation</td>
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<td>Roy Phitayakorn, MD</td>
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<td>3:00-3:30 pm</td>
<td>Data Driven Changes</td>
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<td>3:30-3:45 pm</td>
<td>Implementation Science</td>
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<td>3:45-3:55 pm</td>
<td>Q&amp;A</td>
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SCIENTIFIC AND SOCIAL PROGRAM

4:00-6:00 pm  SNS COMMITTEE MEETINGS

CAST Meeting
Sapphire 2

CoRE and Resident Courses Committee Meeting
Garnet 1 & 2

Medical Student Committee Meeting
Sapphire 1

Research Committee Meeting
Onyx Boardroom

6:00-8:00 pm  Opening Reception

One Campus Martius Skydeck, 1 Campus Martius, Detroit, MI 48226
Attire: Business Casual
Live music featuring the Neurosurgery Jazz Quintet Plus 1
Buses depart from the lobby of the MGM Grand Detroit at 5:45 pm

SUNDAY, MAY 22, 2022

Breakfast and 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.

6:45-7:15 am  Transportation to the Henry Ford Hospital

2799 W Grand Blvd, Detroit, MI 48202
Buses depart from the lobby of the MGM Grand Detroit
at 6:45 am and 7:15 am

7:00-8:00 am  Breakfast

Henry Ford Hospital
Buerki Atrium

8:00-11:50 am  SESSION 3

Henry Ford Hospital
Henry Ford Health System Program
Buerki Auditorium

8:00-8:20 am  Welcome and Introduction
Steven N. Kalkanis, MD

8:15-8:25 am  Video

8:25-8:35 am  All of Us
Christine C. Johnson, PhD, MPH

8:35-8:45 am  Henry Ford Leadership: MedPAC, NQF
David Nerenz, PhD

8:45-8:55 am  Michigan Spine Surgery Improvement Collaborative
Muwaffak Abdulhak, MD
8:55-9:05 am  N2QOD / Risk Modeling Spine Outcomes  
Victor W. Chang, MD

9:05-9:15 am  PROMs Integration Into Routine Care  
Jason M. Schwalb, MD

9:15-9:25 am  Evolving Operative Feedback / Continuing Education in Face of COVID-19  
Ellen L. Air, MD, PhD

9:25-9:45 am  Research Development  
Beverly C. Walters, MD, MSc

9:45-9:45 am  Q&A

9:45-10:05 am  Break  
Buerki Atrium

10:05-10:15 am  Exosomes in Stroke  
Michael Chopp, PhD

10:15-10:25 am  Exosomes in Trauma  
Asim Mahmood, MD

10:25-10:35 am  Liquid Biopsy  
Ian Yu Lee, MD

10:35-10:45 am  Molecular Tumor Board/Avatar  
Tom Mikkelsen, MD

10:45-10:55 am  Vascular/Stroke  
Max K. Kole, MD

10:55-11:05 am  Spine – Neurosurgery Leading the Way  
Frank La Marca, MD

11:05-11:15 am  Skull Base/Tumor  
Adam M. Robin, MD

11:15-11:25 am  HFH Neurosurgery: The International Program  
Jack P. Rock, MD

11:25-11:45 am  Detroit Renaissance  
Dan Gilbert

11:45 am-12:00 pm  Adjourn and walk to Cancer Center

12:00-1:00 pm  Lunch  
The Henry Ford Cancer Institute,  
2800 W. Grand Boulevard, Detroit, MI 48202

1:00-1:30 pm  Transportation to the MGM Grand Detroit  
1777 3rd Ave, Detroit, MI 48226

1:30-5:30 pm  Registration  
Grand Foyer
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<td><strong>SESSION 4</strong></td>
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<td><strong>Teaching the Teacher</strong></td>
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<td>Grand Salon 1 &amp; 2</td>
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<td></td>
<td>MODERATORS: Ellen L. Air, MD, PhD; Lawrence S. Chin, MD; Jamie J. Van Gompel, MD; Stacey Q. Wolfe, MD</td>
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<tr>
<td>1:30-1:45 pm</td>
<td>Mentors, Sponsors and Coaches – Oh My!</td>
<td>Lola B. Chambless, MD</td>
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<tr>
<td>1:45-2:00 pm</td>
<td>Coaching – Effective Strategies</td>
<td>Joseph S. Neimat, MD, MS</td>
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<td>2:00-2:15 pm</td>
<td>One Size Doesn’t Fit All</td>
<td>William W. Ashley, MD, PhD, MBA</td>
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<td>2:15-2:30 pm</td>
<td>Promoting Junior Faculty</td>
<td>Chirag D. Gandhi, MD, FACS, FAANS</td>
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<td>2:30-2:45 pm</td>
<td>Supporting Wellness with Family and Sick Leave</td>
<td>Karin M. Muraszko, MD</td>
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<tr>
<td>2:45-3:25 pm</td>
<td>Planning for Success; History of Your Future Exercise</td>
<td>Ellen L. Air, MD; Joseph Samir Neimat, MD</td>
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<td>3:25-3:45 pm</td>
<td>Break</td>
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<td>3:45-4:00 pm</td>
<td>Keeping Associate Professors Engaged</td>
<td>John G. Golfinos, MD</td>
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<td>4:00-4:15 pm</td>
<td>It’s Lonely at the Top: Navigating Complex Relationships</td>
<td>Lawrence S. Chin, MD</td>
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<td>4:15-4:25 pm</td>
<td>Distinguished Service Award Introduction</td>
<td>M. Sean Grady, MD</td>
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<tr>
<td>4:25-4:30 pm</td>
<td>Distinguished Service Award Acceptance</td>
<td>Griffith R. Harsh IV, MD</td>
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<td>4:30-4:35 pm</td>
<td>Introduction of Medical Student Teaching Award</td>
<td>Daniel L. Barrow, MD</td>
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<td>4:35-4:40 pm</td>
<td>Medical Student Teaching Award Acceptance</td>
<td>Robert E. Gross, MD, PhD</td>
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<td>4:40-4:45 pm</td>
<td>Introduction of Grossman Award Lecture</td>
<td>Warren R. Selman, MD</td>
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<tr>
<td>4:45-5:25 pm</td>
<td>Grossman Award Lecture</td>
<td>Mark Griswold, PhD</td>
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<td>5:25-5:30 pm</td>
<td>Q&amp;A</td>
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SCIENTIFIC AND SOCIAL PROGRAM

6:30-9:30 pm  Reception and Strolling Dinner
Detroit Institute of Arts
5200 Woodward Ave
Attire: Business Casual
Buses depart from the lobby of the MGM Grand Detroit at 6:15 pm

MONDAY, MAY 23, 2022

6:30-7:30 am  Members Only Breakfast and Business Meeting
Grand Salon 3 & 4

6:30-7:30 am  Non-member Breakfast
Amber 1 & 2

7:00 am-5:00 pm  Registration
Grand Foyer

8:00 am-1:00 pm  SESSION 5
Grand Salon 1 & 2
Disruptive Collaborations
MODERATORS: Ketan R. Bulsara, MD; Carl B. Heilman, MD; Michael Lim, MD; William J. Mack IV, MD

8:00-8:15 am  Innovative Multidisciplinary Collaborations: Neuroplastics
Kerry-Ann Mitchell, MD, PhD

8:15-8:30 am  Innovative Multidisciplinary Programs: Fetal Surgery/Pediatric Spinal Deformity
Mari L. Groves, MD

8:30-8:45 am  Righting the 3-Legged Stool
Deborah L. Benzil, MD

8:45-9:00 am  Service Line and Financial Repercussions of COVID-19
Richard W. Byrne, 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; Karin M. Muraszko, MD; Nathan R. Selden, MD, PhD

9:40-10:00 am  Break
Grand Foyer

10:00-10:15 am  Spine as Core of Musculoskeletal 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
Daniel M. Sciubba, MD
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:30-10:45 am</td>
<td>Disruption at the Health Care System Level Will Impact Neurosurgery</td>
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<td>Matthew G. Ewend, MD</td>
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<td>10:45-11:00 am</td>
<td>The Uphill Battle of Clinical Trials: NIH vs. Industry</td>
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<td>Mark G. Luciano, MD</td>
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<td>11:00-11:15 am</td>
<td>War of the Worlds: Clinician vs. Scientist vs. Entrepreneur</td>
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<td>Gelareh Zadeh, MD</td>
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<td>11:15-11:25 am</td>
<td>Q&amp;A</td>
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<tr>
<td>11:25-11:30 am</td>
<td>Introduction of President Warren Selman</td>
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<td>Daniel L. Barrow, MD</td>
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<tr>
<td>11:30-11:55 am</td>
<td>Presidential Address</td>
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<td>Warren R. Selman, MD</td>
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<td>11:55 am-12:00 pm</td>
<td>Passing of the Gavel</td>
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<td>Warren R. Selman, MD</td>
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<td>12:00-1:00 pm</td>
<td>Lunch</td>
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<td>Grand Salon 3 &amp; 4</td>
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<tr>
<td>12:20-12:50 pm</td>
<td>Lunch Session: Historical Perspectives – Functional Neurosurgery</td>
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<td>Grand Salon 3 &amp; 4</td>
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<td>Robert E. Gross, MD</td>
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<td>1:00-5:00 pm</td>
<td>SESSION 6</td>
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<td>Grand Salon 1 &amp; 2</td>
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<td>Global Neurosurgery – When the World is Flat</td>
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<td>MODERATORS: Anand V. Germanwala, MD; Vikram C. Prabhu, MD, MS; Clemens M. Schirmer, MD, PhD</td>
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<td>1:00-1:05 pm</td>
<td>Introduction of Detroit Mayor</td>
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<td>Steven N. Kalkanis, MD</td>
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<td>1:05-1:35 pm</td>
<td>Detroit Mayoral Address</td>
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<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>
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<td>Nelson M. Oyesiku, MD</td>
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<td>2:00-2:15 pm</td>
<td>Unified by Education – FIENS</td>
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<td>Robert J. Dempsey, MD</td>
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<td>2:15-2:30 pm</td>
<td>IMG’s in Residency – Who, Where and How?</td>
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<td>Jordina Rincon-Torroella, MD, PhD</td>
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<tr>
<td>2:30-2:45 pm</td>
<td>Bringing the World’s Best to the US – Contributions of IMG’s</td>
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<td>Ziya L. Gokaslan, MD</td>
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SCIENTIFIC AND SOCIAL PROGRAM

2:45-3:00 pm  Alternate Pathways to ABNS Certification
Elad I. Levy, MD, MBA

3:00-3:15 pm  Existing Virtually Without Borders – Webinars, Podcasts
Jacques J. Morcos, MD

3:15-3:30 pm  2022-2023 Residency Recruitment Updates
Stacey Q. Wolfe, MD

3:30-3:40 pm  Q&A

3:40-4:00 pm  Break

4:00-4:05 pm  Introduction of Winn Award Lecturer
E. Antonio Chiocca, MD, PhD

4:05-4:45 pm  Winn Award Lecture
Frederick F. Lang, MD

4:45-5:00 pm  Q&A

6:30-9:00 pm  Gala Dinner
Grand Salon 3 & 4
Attire: Black Tie Preferred

TUESDAY, MAY 24, 2022

6:30-10:00 am  Registration

6:30-7:30 am  Breakfast
Grand Salon 3 & 4

7:30-10:00 am  SESSION 7
Grand Salon 1 & 2
OR of the Future and What Our Residents Need to Know Now
MODERATORS: Bernard R. Bendok, MD, MSCI;
Michelle J. Clarke, MD; E. Sander Connolly, Jr., MD

7:30-7:40 am  CAST Update
Charles L. Branch Jr., MD

7:40-7:50 am  Resident Courses Update
Gregory J. Zipfel, MD

7:50-8:00 am  Neurosurgeon Research Career Development Program (NRCDP)
Emad N. Eskandar, MD

8:00-8:10 am  SNS Neurosurgeon-Scientist Training Program
Constantinos G. Hadjipanayis, MD, PhD

8:10-8:20 am  ABNS Update
Kevin M. Cockroft, MD
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:20-8:30 am</td>
<td>Washington Committee Update</td>
<td>Katie O. Orrico; John K. Ratliff, MD</td>
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<td>8:30-8:50 am</td>
<td>Break</td>
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<tr>
<td>8:50-9:05 am</td>
<td>Prospects for Cerebrovascular Surgery in the Hybrid OR/Endovascular Suite</td>
<td>Louis J. Kim, MD</td>
</tr>
<tr>
<td>9:05-9:20 am</td>
<td>Exploring Novel Frontiers with Focused Ultrasound</td>
<td>Howard M. Eisenberg, MD</td>
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<tr>
<td>9:20-9:35 am</td>
<td>Seeing Beyond Neuronavigation</td>
<td>David J. Langer, MD</td>
</tr>
<tr>
<td>9:35-9:50 am</td>
<td>Augmented Reality – Virtually Priceless</td>
<td>Timothy F. Witham, MD</td>
</tr>
<tr>
<td>9:50-10:00 am</td>
<td>Teaching Residents What They Need to Learn</td>
<td>Pablo F. Recinos, MD</td>
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CME AND DISCLOSURE INFORMATION

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<table>
<thead>
<tr>
<th>INVITED GUESTS*</th>
<th>GUEST'S HOST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peter S. Amenta, MD</td>
<td>Mark D. Johnson, MD, PhD</td>
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<tr>
<td>Han-Chiao I. Chen, MD</td>
<td>Daniel Yoshor, MD</td>
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<tr>
<td>Dean Chou, MD</td>
<td>E. Sander Connolly, Jr., MD</td>
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<td>Steven H. Cook, MD</td>
<td>Gerald A. Grant, MD</td>
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<td>Linton T. Evans, MD</td>
<td>Perry A. Ball, MD</td>
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<tr>
<td>Manuel Ferreira Jr., MD, PhD</td>
<td>Richard G. Ellenbogen, MD</td>
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<tr>
<td>Holly Gilmer, MD</td>
<td>Sean M. Lew, MD</td>
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<td>Jonathan A. Grossberg, MD</td>
<td>Daniel L. Barrow, MD</td>
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<td>John F. Hamilton, MD, PhD</td>
<td>James M. Ecklund, MD</td>
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<tr>
<td>Simon J. Hanft, MD</td>
<td>Chirag D. Gandhi, MD</td>
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<tr>
<td>Christopher Kellner, MD</td>
<td>Constantinos G. Hadjipanayis, MD, PhD</td>
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<tr>
<td>Ian Y. Lee, MD</td>
<td>The Society</td>
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<tr>
<td>Kate McDaniel, PhD</td>
<td>Michael M. Haglund, MD, PhD</td>
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<tr>
<td>Tom Mikkelsen, MD</td>
<td>The Society</td>
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<tr>
<td>Juan R. Ortega-Barnett, MD</td>
<td>Nicholas M. Barbaro, MD</td>
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<td>Min S. Park, MD</td>
<td>Mark E. Shaffrey, MD</td>
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<td>Matthew B. Potts, MD</td>
<td>Nader S. Dahdaleh, MD</td>
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<tr>
<td>Carolyn Quinsey, MD</td>
<td>Eldad J. Hadar, MD</td>
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<tr>
<td>R. Aaron Robison, MD</td>
<td>Warren W. Boling, MD</td>
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<tr>
<td>Norbert Roosen, MD</td>
<td>The Society</td>
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<tr>
<td>Nathan C. Rowland, MD, PhD</td>
<td>Alejandro M. Spiotta, MD</td>
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<tr>
<td>Justin G. Santarelli, MD</td>
<td>Chirag D. Gandhi, MD</td>
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<td>Jason M. Schwalb, MD</td>
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<tr>
<td>Raymond F. Sekula Jr., MD</td>
<td>E. Sander Connolly, Jr., MD</td>
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<tr>
<td>Eric M. Thompson, MD</td>
<td>Michael M. Haglund, MD, PhD</td>
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<tr>
<td>J. Christopher Zacko, MD, MS</td>
<td>Kevin M. Cockroft, MD</td>
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</table>

*Guests invited as of April 19, 2022.
# EXECUTIVE COUNCIL MEMBERS 2021-2022

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Warren R. Selman, MD</td>
</tr>
<tr>
<td>President Elect</td>
<td>E. Sander Connolly, Jr., MD</td>
</tr>
<tr>
<td>Vice President</td>
<td>Deborah L. Benzil, MD</td>
</tr>
<tr>
<td>Secretary</td>
<td>Nathan R. Selden, MD, PhD</td>
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<tr>
<td>Treasurer</td>
<td>Richard W. Byrne, MD</td>
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<tr>
<td>Past President</td>
<td>M. Sean Grady, MD</td>
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<tr>
<td>Past-Past President</td>
<td>Karin M. Muraszko, MD</td>
</tr>
<tr>
<td>Past Vice President</td>
<td>E. Sander Connolly, Jr., MD</td>
</tr>
<tr>
<td>Member-at-Large</td>
<td>Oren Sagher, MD</td>
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<tr>
<td>Member-at-Large</td>
<td>Sepideh Amin-Hanjani, MD</td>
</tr>
<tr>
<td>Program Chair</td>
<td>Judy Huang, MD</td>
</tr>
<tr>
<td>Historian</td>
<td>Kim J. Burchiel, MD, FACS</td>
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<tr>
<td>Local Host</td>
<td>Steven N. Kalkanis, MD</td>
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<tr>
<td>ABNS Ad Hoc Member</td>
<td>Daniel K. Resnick, MD, MS</td>
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<tr>
<td>RRC Ad Hoc Member</td>
<td>Robert E. Harbaugh, MD</td>
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<tr>
<td>CAST</td>
<td>Nicholas M. Barbaro, MD</td>
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<tr>
<td>CoRE</td>
<td>Gregory J. Zipfel, MD</td>
</tr>
<tr>
<td>Medical Student Committee</td>
<td>Stacey Q. Wolfe, MD</td>
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<tr>
<td>Membership Committee</td>
<td>Randy L. Jensen, MD, PhD</td>
</tr>
<tr>
<td>Research Committee</td>
<td>Linda M. Liau, MD, PhD, MBA</td>
</tr>
</tbody>
</table>

**Non-Voting Members:**

- ABNS Ad Hoc Member: Daniel K. Resnick, MD, MS
- RRC Ad Hoc Member: Robert E. Harbaugh, MD
- CAST: Nicholas M. Barbaro, MD
- CoRE: Gregory J. Zipfel, MD
- Medical Student Committee: Stacey Q. Wolfe, MD
- Membership Committee: Randy L. Jensen, MD, PhD
- Research Committee: Linda M. Liau, MD, PhD, MBA
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2018–2022

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2018–2023

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2015–current

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2014–2022  
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2018–2022

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2020–2022

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2018–current

**NREF**  
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2018–current  
Frederick G. Barker, MD  
2019–current

**NeuroPoint Alliance**  
Kevin M. Cockroft, MD  
2017–current

**Neurosurgery Quality Council**  
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2018–current
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Itabashi-Ku, Tokyo,
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Little Rock, Arkansas 72205
United States

Jun Yoshida, MD
Nagoya University
Nagoya University School of Medicine
65 Tsuramai-cho Showa-Ku Nagoya
Nagoya, 466-8550
Japan
DECEASED MEMBERS

John E. Adams, MD 1999  Lee A. Christoferson, Sr., MD 2000
Alfred W. Adson, MD 1951  Ivan S. Cirić, MD 2021
Eben Alexander, Jr., MD 2004  William K. Clark, MD 2007
Marshall B. Allen, Jr., MD 2015  Donald F. Coburn, MD 1988
Orlando J. Andy, MD 1997  Claude C. Coleman, MD 1953
Joao (John) Lobo Antunes, MD (Honorary) 2016  William F. Collins, Jr., MD 2009
Chisato Araki, MD (Honorary) 1976  Edward S. Connolly, Sr., MD 2014
Román Arana-Iñiguez, MD (Honorary) 1977  William S. Coxe, MD 2012
Edward W. Archibald, MD 1945  Paul H. Crandall, MD 2012
James G. Arnold, Jr., MD 1994  Robert M. Crowell, MD 2020
Alexander I. Arutyunov, MD (Honorary) 1975  W. Gayle Crutchfield, MD 1972
Alfonso Asenjo, MD (Honorary) 1980  Walter E. Dandy, MD (Honorary) 1946
George M. Austin, MD 2002  Leo M. Davidoff, MD 1975
Charles Bagley, Jr., MD 1957  Courtland H. Davis, Jr., MD 1982
Percival Bailey, MD 1973  Loyal Davis, MD 1982
Louis Bakay, MD 1998  Albert P. D’Errico, MD 1984
Roy A. E. Bakay, MD 2013  Richard L. DeSaussure, Jr., MD 2008
George S. Baker, MD 1993  Jacquez C. de Villiers, MD 2018
Maitland Baldwin, MD 1970  (Honorary)
H. Thomas Ballantine, Jr., MD 1996  R. M. Peardon Donaghy, MD 1991
Robert C. Bassett, MD 1975  Norman M. Dott, MD (Honorary) 1973
Donald P. Becker, MD 2020  Charles E. Downman, Jr., MD 1931
Claude Bertrand, MD 2014  Charles G. Drake, MD 1998
Perry Black, MD 2018  Dean H. Echols, MD 1991
Byron M. Bloor, MD 1994  George Ehni, MD 1986
Edwin B. Boldrey, MD 1988  Charles A. Ehni, MD 1948
Warren C. Boop, MD 2021  Arthur R. Elvidge, MD 1985
Edmund H. Botterell, MD 1997  Fred J. Epstein, MD 2006
Robert S. Bourke, MD 1996  Theodore C. Erickson, MD 1986
Charles E. Brackett, MD 2016  Joseph P. Evans, MD 1985
E. Jefferson Browder, MD 1976  Charles A. Fager, MD 2014
Howard A. Brown, MD 1990  Temple Fay, MD 1963
Paul C. Bucy, MD 1993  William H. Fiendel, MD 2014
Eduard A. V. Busch, MD (Honorary) 1982  Edgar F. Fincher, Jr., MD 1969
Karl A. Bushe, MD (Honorary) 1999  Robert G. Fisher, Jr., MD 2003
David W. Cahill, MD 2003  Stevenson Flanigan, MD 2007
Sir Hugh W.B. Cairns, MD (Honorary) 1952  Howard W. Fleming, MD 1974
Eldridge H. Campbell, Jr., MD 1956  Charles H. Frazier, MD 1936
Robert L. Campbell, MD 2018  John D. French, MD 1989
Louis P. Carter, MD 2010  Lyle A. French, MD 2004
Thomas E. Carter, MD 2006  Piero Frugoni, MD (Honorary) 1994
Joseph Chandy, MD (Honorary) 2007  Leonard T. Furlow, MD 1980
Shelley N. Chou, MD 2001  J. Garber Galbraith, MD 1996
DECEASED MEMBERS

W. James Gardner, MD 1987  Jay J. Keegan, MD 1978
Henry D. Garretson, MD 2007  Ludwig G. Kempe, MD 2012
William J. German, MD 1981  Frederick W. L. Kerr, MD 1983
Philip L. Gildenberg, MD, PhD 2020  Harry H. Kerr, MD 1963
F. J. Gillingham, MD (Honorary) 2010  Robert B. King, MD 2008
Sidney Goldring, MD 2004  Katsutoshi Kitamura, MD (Honorary)
Phillip D. Gordy, MD 2014  2004
Carl J. Graf, MD 1987  Robert S. Knighton, MD 2004
Lars G. Granholm, MD (Honorary) 1988  Wolfgang T. Koos, MD (Honorary) 2000
Francis C. Grant, MD 1967  Herbert Kraus, MD (Honorary) 1975
George H. Gray, Jr., MD 2016  Hugo Krayernbuhl, MD (Honorary) 1985
John R. Green, MD 1990  Kristian Kristiansen, MD (Honorary) 1993
Robert A. Groff, MD 1975  Theodore Kurze, MD 2002
Cordell E. Gross, MD 2000  Thomas W. Langfitt, MD 2005
Robert G. Grossman, MD 2021  Sanford J. Larson, MD 2012
Gerard Guiot, MD (Honorary) 1998  James R. Learmonth, MD
E. Stephen Gurdjian, MD 1985  (Honorary) 1967
Wallace B. Hamby, MD 1999  Lyal G. Leibrock, MD 2005
John W. Hanbery, MD 1996  Lars Lekssell, MD (Honorary) 1986
Griffith R. Harsh, III, MD 2019  Richard A. Lende, MD 1973
Samuel C. Harvey, MD 1953  Dean D. Lewis, MD 1941
Hale A. Haven, MD 1964  Richard U. Light, MD 1994
C. Douglas Hawkes, MD 1998  Kenneth E. Livingston, MD 1984
Gen. George J. Hayes, MD 2002  Raeburn C. Llewellyn, MD 2009
Mark P. Heilbrun, MD 2010  Valentine Logue, MD (Honorary) 2000
Jess D. Hermann, MD 1994  H.C. Ruediger Lorenz, MD
George J. Heuer, MD 1950  (Honorary) 2008
Henry L. Heyl, MD 1975  J. Grafton Love, MD 1987
Norman C. Hill, MD 2020  Alfred J. Luessenhop, MD 2009
Julian T. Hoff, MD 2007  Collin S. MacCarty, MD 2003
Harold J. Hoffman, MD 2004  Robert J. Maciunas, MD 2011
Gilbert Horrax, MD 1957  Ernest W. Mack, MD 2000
William E. Hunt, MD 1999  M. Stephen Mahaley, Jr., MD 1992
Franc D. Ingraham, MD 1965  Leonard I. Malis, MD 2005
Fabian Isamat, MD (Honorary) 2019  Vernon H. Mark, MD 2014
Shozo Ishii, MD (Honorary) 2012  John Martin, MD 1996
John A. Jane, Sr., MD 2015  Donald D. Matson, MD 1969
Peter J. Jannetta, MD 2016  Frank H. Mayfield, MD 1991
Sir Geoffrey Jefferson, MD 1961  David J. McCullough, MD 1992
(Honorary) 1964  Kenneth G. McKenzie, MD 1969
Byran Jennett, MD (Honorary) 2008  Robert L. McLaurin, MD 2015
Ottiwell W. Jones, Jr., MD 1987  William F. Meacham, MD 1999
Edgar A. Kahn, MD 1985  John N. Meagher, MD 1993
Allen B. Kanavel, MD 1938  H. Russell Meyers, MD 1999
E. I. Kandel, MD (Honorary) 1990  Carole A. Miller, MD 2015
Harry A. Kaplan, MD 1995  J. Douglas Miller, MD 1996
Samuel S. Kasoff, MD 2009  Joseph H. Miller, MD 2021
DECEASED MEMBERS

Ross H. Miller, MD 2014  J. Lawrence Pool, MD 2004
W. Jason Mixter, MD 1958  James L. Poppen, MD 1978
Thomas P. Morley, MD 2012  Robert W. Porter, MD 2021
Lester A. Mount, MD 1999  Jose R. Portugal, MD (Honorary) 1993
John (Sean) F. Mullan, MD 2015  Robert H. Pudenz, MD 1998
Donald Munro, MD 1973  Tracy J. Putnam, MD 1975
Francis Murphey, MD 1994  John E. Raaf, MD 2000
Frederick Murtagh, Jr., MD 1996  Anthony J. Raimondi, MD 2000
Paul W. Myers, MD 2013  B. Ramamurthi, MD 2003
Howard C. Naffziger, MD 1961  Carl W. Rand, MD 1972
Blaine S. Nashold, Jr., MD 2014  Robert W. Rand, MD 2013
William Noordenbos, MD (Honorary) 1992
Gösta Norlén, MD (Honorary) 1992  Theodore B. Rasmussen, MD 2002
D. W. C. Northfield, MD (Honorary) 1977  Bronson S. Ray, MD 1993
G. Robert Nugent, MD 2016  Owen H. Reichman, MD 2018
Frank E. Nulsen, MD 1994  Albert L. Rhoton, Jr., MD 2016
Sixto A. Obrador, MD (Honorary) 1978  Nathan Rifkinson, MD 2010
Guy L. Odom, MD 2001  Hugo V. Rizzoli, MD 2014
Eric Oldberg, MD 1986  James T. Robertson, MD 2019
Edward H. Oldfield, MD 2017  Hubert L. Rosomoff, MD 2008
A. Herbert Olivcrona, MD (Honorary) 1980  Richard L. Rovit, MD 2018
Jewel L. Osterholm, MD 2017  Ernest Sachs, Sr., MD 1958
William O. Ott, MD 1963  Ernest Sachs, Jr., MD 2001
Kenneth W. E. Paine, MD 1994  Keiji Sano, MD (Honorary) 2011
Pietro Paoletti, MD (Honorary) 1991  Martin P. Sayers, MD 2013
Dwight Parkinson, MD 2005  John E. Scarff, MD 1978
Andrew T. Parsa, MD 2015  Edward B. Schlesinger, MD 1997
Herbert Parsons, MD 1995  Henry H. Schmidek, MD 2008
Emil Pasztor, MD (Honorary) 2015  Richard C. Schneider, MD 1986
Bernard S. Patrick, MD 2013  Luis Schut, MD 2018
Harold D. Paxton, MD 2015  William G. Schwartz, MD 1998
Max M. Peet, MD 1949  William B. Scoville, MD 1984
Wilden Penfield, MD 1976  Bertram Selverstone, MD 1993
Joe Pennybacker, MD (Honorary) 1983  R. Eustace Semmes, MD 1982
Phanor L. Perot, Jr., MD 2011  C. Hunter Shelden, MD 2003
Joseph L. Ransohoff, II, MD 2001  Henry A. Shenkin, MD 2007
Bernard C. Pertuiset, MD (Honorary) 2000  John Shillito, Jr., MD 2012
Daniel Petit-Dutullis, MD (Honorary) 1968  Kenneth Shulman, MD 1981
Byron C. Pevehouse, MD 2010  Frank P. Smith, MD 2003
William T. Peyton, MD 1962  Robert R. Smith, MD 2003
Hans W. Pia, MD (Honorary) 1986  Samuel R. Snodgrass, MD 1975
Cobb Pilcher, MD 1949  Bruce F. Sorenson, MD 2017
Reinaldo A. Poblete, MD (Honorary) 1993  R. Glen Spurling, MD 1968
William T. Peyton, MD (Honorary) 1986  Ladislau Steiner, MD (Honorary) 2013
G. Robert Nugent, MD 2016  Arist A. Stender, MD (Honorary) 1978
<table>
<thead>
<tr>
<th>DECEASED MEMBERS</th>
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<tbody>
<tr>
<td>Walter E. Stern, Jr., MD</td>
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<td>Byron P. Stookey, MD</td>
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<td>Oscar Sugar, MD</td>
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<td>Kenichiro Sugita, MD (Honorary)</td>
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<td>Thoralf M. Sundt, Jr., MD</td>
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<td>Hendrick J. Svien, MD</td>
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<td>William H. Sweet, MD</td>
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<td>Lindsay E. Symon, MD (Honorary)</td>
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<td>Kintomo Takakura, MD (Honorary)</td>
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<td>Alfred S. Taylor, MD</td>
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<td>Frank R. Teachenor, MD</td>
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<td>L. Murray Thomas, MD</td>
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<td>Suzie C. Tindall, MD</td>
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<td>Edward B. Towne, MD</td>
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<td>Frank Turnbull, MD</td>
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<td>Alfred Uihlein, MD</td>
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<td>John C. Van Gilder, MD</td>
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<td>William P. Van Wagenen, MD</td>
</tr>
<tr>
<td>Manuel M. Velasco-Suarez, MD (Honorary)</td>
</tr>
</tbody>
</table>
Perry Black, MD
1930 – 2018

PERRY BLACK was born in Montreal, Canada, in October 1930. Dr. Black educated at McGill for both undergraduate and medical degrees. After a year in neurology at the Montreal Neurological Institute, he trained in neurosurgery under Dr. Earl Walker at Johns Hopkins. As a faculty member at Johns Hopkins, he made seminal discoveries regarding interhemispheric communication in primates.

After Hopkins, Dr. Black spent 15 years as chair of neurological surgery at Hahnemann University in Philadelphia. Among other achievements there, he founded a leading pain neurosurgery clinic and advanced the treatment of high-grade gliomas.

Dr. Black was a dedicated and beloved teacher and was devoted to his spouse Phyllis, their children and their families.
DECEASED MEMBERS BIOGRAPHIES

Warren C. Boop, Jr., MD
1933 – 2021

WARREN CLARK BOOP, JR. was born July 27, 1933, in Baltimore, Maryland. Dr. Boop was educated at the University of Tennessee Memphis and did his initial training in surgery in Knoxville before serving in the Navy and then completing his residency in neurological surgery at the University of Minnesota.

His continued Naval service saw him rise to Chief of Neurosurgery at the Great Lakes Naval Hospital before he took a position on the faculty of the University of Arkansas, where he was key to the foundation of the first residency program in Arkansas, rose to the rank of Professor of Neurosurgery, and served as Chief at the Little Rock Veteran’s Affairs Hospital.

Highly valued by his family, trainees, and community, Dr. Boop served as a chorister and deacon for his Presbyterian church, was married to his wife Nancy for 68 years, and raised three children, one of whom – Dr. Frederick Boop – succeeded him as President of the Southern Neurosurgical Society and a member of our Society of Neurological Surgeons.
Ivan S. Ciric, MD
1933 – 2021

IVAN S. CIRIC was born in Vienna on December 15, 1933. Dr. Ciric grew up in the Danube River valley in Serbia and studied medicine in Belgrade and Cologne. His neurosurgical training was in Cologne and Chicago, the latter under Dr. Paul Bucy. He also trained in transsphenoidal surgery with Dr. Jules Hardy in Montreal. His entire career was then spent at the Evanston Hospital of Northwestern University where he became Professor and Head of the Division of Neurosurgery. He made substantial contributions to transsphenoidal surgery, the treatment of Cushing’s disease, and surgery for high grade gliomas.

Dr. Ciric was a favorite of residents and students at Northwestern and mentored generations of neurosurgical trainees in microsurgery and pituitary surgery. In retirement, he dedicated himself to writing books and poems. He was dedicated to his spouse Anne and to their three children and their families.
ROBERT GEORGE GROSSMAN was born on April 9th, 1930, in Thrift, Texas. He graduated from Ludowici Georgia High School, Mercer University, and the Medical College of Georgia.

Dr. Miller was the founder and Director of the Neuroscience Center in Memphis, Tennessee. He served as Chief of Neurosurgery at Methodist Hospital, Memphis, and Vice-chair of the Department of Neurosurgery at the University of Tennessee. He also served as a bank director, a college trustee, the author of 17 books and a pilot, with more than 5,000 hours in flight.

Dr. Miller was an active or reserve member of the U.S. Navy for 62 years and consulted at every U.S. Navy Hospital in the world, rising to the rank of Rear Admiral in the Navy Reserve. For his service, he received the Legion of Merit Medal, the Navy Commendation Medal, the Combat Vietnam Service Medal, the Vietnam Gallantry Citation, the Vietnam Civil Action Medal, the Armed Forces Service Medal, and the National Defense Service Medal.

Dr. Miller was a devoted Sunday School teacher and Deacon at his church for over 6 decades. He was devoted to his spouse, Cathy Parker Miller, five children and many grandchildren and great grandchildren.
Manucher J. Javid, MD
1922 – 2017

MANUCHER J. JAVID was born in Tehran on January 11, 1922. Dr. Javid educated at the University of Illinois College of Medicine. His scientific and neurosurgical training included mentorship by luminaries of the field, including Drs. Percival Bailey, Gilbert Horrax, William Sweet, and James White. Dr. Javid’s entire career was then spent at the University of Wisconsin, where he made seminal contributions to intra-discal therapy and hypertonic intravenous therapy for post-traumatic and intra-operative brain swelling.

Dr. Javid’s colleagues at the University of Wisconsin have lauded him for his 45 years of service to the University, including as its second chief and first chair of neurological surgery. He was beloved by his patients and by the generations of residents who trained under his supervision. Deeply spiritual, he was a scholar of world religion, and was dedicated to his spouse Emma and their four children.
Joseph Hardy Miller, MD  
1930 – 2021

JOSEPH HARDY MILLER was born on April 9th, 1930, in Thrift, Texas. He graduated from Ludowici Georgia High School, Mercer University, and the Medical College of Georgia.

Dr. Miller was the founder and Director of the Neuroscience Center in Memphis, Tennessee. He served as Chief of Neurosurgery at Methodist Hospital, Memphis, and Vice-chair of the Department of Neurosurgery at the University of Tennessee. He also served as a bank director, a college trustee, the author of 17 books and a pilot, with more than 5,000 hours in flight.

Dr. Miller was an active or reserve member of the U.S. Navy for 62 years and consulted at every U.S. Navy Hospital in the world, rising to the rank of Rear Admiral in the Navy Reserve. For his service, he received the Legion of Merit Medal, the Navy Commendation Medal, the Combat Vietnam Service Medal, the Vietnam Gallantry Citation, the Vietnam Civil Action Medal, the Armed Forces Service Medal, and the National Defense Service Medal.

Dr. Miller was a devoted Sunday School teacher and Deacon at his church for over 6 decades. He was devoted to his spouse, Cathy Parker Miller, five children and many grandchildren and great grandchildren.
Lindsay E. Symon
1929 – 2019

**LINDSAY E. SYMON** was born in Aberdeen, Scotland on November 4, 1929. Dr. Symon was educated in medicine at the University of Aberdeen. He trained with Dr. Valentine Logue at the Maida Vale hospital and ultimately went with him to the National Hospital for Neurology and Neurosurgery at Queen Square in London. Dr. Symon received additional scientific training in cerebrovascular physiology at Wayne State University and the MRC National Institute for Medical Research in London.

At Queen Square, Dr. Symon achieved tremendous success as a skull base and cerebrovascular surgeon as well as a basic and translational scientist. He was a significant contributor to new clinical adjuncts such electrocochleography and facial nerve stimulation during skull base surgery as well as new scientific methodologies such as in vivo microdialysis and the hydrogen clearance method. He utilized the latter to first define both functional and critical levels of cerebral blood flow.

Dr. Symon was also a dedicated teacher who was renowned for his aptitude in training residents and who studied training methods and outcomes throughout his career. He contributed to international education through the WFNS.

Dr. Symon was devoted to his wife Pauline, three children, and their families.
<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Year</th>
<th>Name</th>
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<tbody>
<tr>
<td>1971</td>
<td>Percival Bailey</td>
<td>1998</td>
<td>Shelley N. Chou</td>
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<td>R. M. Peardon Donaghy</td>
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<td>Eben Alexander, Jr.</td>
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<td>Kim J. Burchiel</td>
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<td>Sidney Goldring</td>
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<td>Donald O. Quest, MD</td>
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<td>Byron C. Pevehouse</td>
<td>2021</td>
<td>H. Huntington Batjer, MD</td>
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<td>William F. Collins, Jr.</td>
<td>2022</td>
<td>Griffith R. Harsh IV, MD</td>
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<td>1996</td>
<td>Sean Mullan</td>
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</tbody>
</table>
1982  Aruthur A. Ward, Jr.  Epilepsy Research  
1983  Thomas W Langfitt  Cerebral Blood Flow and Metabolism in Head Injury  
1984  George A. Ojemann  Research in the Brain Organization for Language and Memory  
1985  John A. Jane  Plasticity in the Brain and Skull  
1986  Donald P. Becker  Maximizing Brain Recovery in Neurosurgical Disorders (Uncovering Mechanisms in Reversible Brain Cell Injury)  
1987  Charles J. Hodge, Jr.  The Spinothalamic Tract Revisited  
1988  Robert G. Grossman  The Temporal Lobe in Epilepsy  
1989  Paul L. Kornblith  Biological Studies of Human Gliomas and Their Therapeutic Implications  
1990  Robert L. Grubb, Jr.  Physiological Responses to Cerebral Ischemia  
1991  Thoralf M. Sundt, Jr.  The Clinical Application of Laboratory Studies in Hemorrhagic Occlusive Cerebrovascular Disease  
1992  Bryce K. Weir  Views from the Shoulders of Giants  
1993  Peter M. Richardson  Cells and Molecules for Axonal Regeneration  
1994  Robert L. Martuza  Molecular Targeting of Therapy for Neurosurgical Disorders  
1995  Edward H. Oldfield  The Potential of Treatment of Neurological Disease with Regional Delivery of Recombinant Molecules  
1996  Neal Kassell  Intracranial Aneurysms: A 30-Year Odyssey  
1997  James N. Campbell  Studies of Neuropathic Pain: From Nociceptor to Patient  
1998  Ronald Tasker  What Microelectrode Recording in the Brain Tells Us about Pain  
1999  H. Richard Winn  Role of Adenosine in Cerebral Blood Flow Regulation  
2000  Henry Brem  Brain Tumor Therapy  
2001  Julian T. Hoff  Basic Research by a Clinical Surgeon: An Impossible Dream?  
2002  Charles H. Tator  Brain and Spinal Cord Injury: The Epidemic, the Prevention and the Research toward Cures  
2003  Ralph G. Dacey, Jr.  Integrated Vascular Responses in the Cerebral Microcirculation: Physiologic and Therapeutic Implications  
2004  James T. Rutka  An Odyssey in Neuro-Oncology Research: A Tale of Two Tumors  
2005  Fred A. Lenz  The Primate Thalamus  
2006  Dennis D. Spencer  Applying Basic Science Tools to Clinical Research: The Investigation of Human Epilepsy  
2007  E. Antonio Chiocca  Translational Therapeutics for Brain Tumors: Opportunities and Challenges
WINN AWARD RECIPIENTS

2008  Tae Sung Park, MD  Cerebral Microvascular Injury in the Neonate and Selective Dorsal Rhizotomy for Spastic Cerebral Palsy
2009  Mitchel S. Berger, MD  Impacting Outcome for Patients with Gliomas: A Convergence of Thoughts and Practice
2010  Andres M. Lozano, MD, PhD  Tuning the Circuits in the Brain to Improve Function
2011  J. Marc Simard, MD, PhD  SUR1—Promising Molecular Target in CNS Ischemia and Trauma
2012  Robert M. Friedlander, MD  Role of Caspase Cell Death Pathways in Neurological Diseases
2013  Michael G. Fehlings, MD, PhD  Repair and Regeneration of the Injured Spinal Cord: from Molecule to Man
2014  Matthew A. Howard, III, MD  Neurosurgery Research: Creativity, Adaptability and Survival
2015  Ian Pollack, MD  Molecular Markers and Molecularly Targeted Therapies for Childhood Brain Tumors
2016  E. Sander Connolly, Jr., MD  Neuroinflammation and the Evolving Pharmacotherapy of Acute Stroke
2017  Gary K. Steinberg, MD, PhD  A Lifelong Quest to Understand and Treat Cerebrovascular Disease
2018  John Sampson, MD  Brain Tumor Immunotherapy: Turning Money into Knowledge and Knowledge into Money
2019  Michael D. Taylor, MD  Pediatric Brain Tumors in the Molecular Era
2020  Not awarded due to COVID-19 Pandemic
2021  Murat Gunel, MD
2022  Frederick F. Lang, MD

MEDICAL STUDENT TEACHING AWARD RECIPIENTS

2016  Donald O. Quest, MD
2017  Allan H. Friedman, MD
2018  Robert J. Dempsey, MD
2019  Henry Brem, MD
2020  Nicholas M. Barbaro, MD
2021  Edward Benzel, MD
2022  Robert E. Gross, MD, PhD
BASS AWARD LECTURERS

1997  Clayton Wiley, MD, PhD – Director, Division of Neuropathology, University of Pittsburgh, Pittsburgh, PA

1998  Dennis Choi, MD, PhD – Professor and Head, Department of Neurology, Washington University School of Medicine, St. Louis, MO
       The Role of Zinc in Acute Brain Injury

1999  Steven Ringel, MD, PhD – Professor of Neurology, Neuromuscular Department, University of Colorado Health Sciences Center, Denver, CO
       Demonstrating the Value of Treating Patients with Neurologic and Neurosurgical Diseases

2000  Stanley Pruisner, MD – Professor of Neurology, Director of the Institute of Neurodegenerative Diseases, University of California School of Medicine, San Francisco, CA
       New Approaches to Dementing Illnesses—The Saga of Prions: From Heresy to Orthodoxy

2001  Fred H. Gage, MD – Professor Laboratory of Genetics, The Salk Institute, La Jolla, CA
       Stem Cells in the Adult Mammalian Brain

2002  Gerald Fischbach, MD – College of Physicians and Surgeons, Columbia University, New York, NY
       Neurosurgical Science in the New Millennium

2003  Irving Weissman, MD – Professor of Pathology, Stanford University, CA
       Stem and Progenitor Cell Biology and Transplantation

2004  Mario Capecchi, PhD – Distinguished Professor of Biology and Human Genetics, The University of Utah, Salt Lake City, UT
       Mouse Knockout Model

2005  Michael Merzenich, PhD – Francis A. Sooy Chair, Department of Otolaryngology, University of California San Francisco, San Francisco, CA
       Brain Plasticity and Neurosurgery

2006  Bruce McNaughton, PhD – Director, ARL Division of Neural Systems Memory and Aging, University of Arizona, Tucson, AZ
       Hippocampal Neural Activation and the Trace Reactivation Theory of Memory Consolidation

2007  Antonio Damasio, MD, PhD – David Dornsife Professor of Neuroscience and Director, Brain and Creativity Institute, University of Southern California, Los Angeles, CA
       The Neurobiology of Emotion: Advances and Consequences

2008  John Povlishock, PhD – Professor and Chair, Department of Anatomy and Neurobiology, Virginia Commonwealth University School of Medicine, Richmond, VA
       Thirty Years of Neurotrauma Research—What Have We Learned and Where Are We Headed?
BASS AWARD LECTURERS

2009  Webster K. Cavenee, PhD – Director, Ludwig Institute for Cancer Research, University of California San Diego, CA
        Genetics and Therapeutic Response in Glioblastoma
2010  James A. Thompson, VMD, PhD – Director of Regenerative Biology, University of Wisconsin School of Medicine and Public Health, Madison, WI Exiting the Pluripotent State and Back Again
2011  Michael S. Gazzaniga, PhD – Director of the SAGE Center for the Study of Mind, University of California Santa Barbara, Santa Barbara, CA
        Trying to Understand the Mind/Brain Interface

GROSSMAN AWARD LECTURERS

2012  Frans de Waal, PhD  Empathy in Primates
2013  Margaret Livingstone, PhD  What Art Tells Us about the Brain
2014  Allan Basbaum, PhD  Dorsal Horn Cell Transplant
2015  Marc Diamond, MD Prion  Biology of the Tau Protein—Implications for Common Neurodegenerative Disease
2016  Olaf Sporns, PhD  Human Connectomics—New Tools and Approaches for Mapping the Brain
2017  Henry Marsh, CBE, FRCS  Do No Harm
2018  Howard Fields, MD, PhD  Brain Circuits for Opioid Analgesia and Reward
2019  Leland H. Hartwell, PhD  Experiencing Science
2020  Not awarded due to COVID-19 Pandemic
2021  Michael J. Kahana, PhD
2022  Mark Griswold, PhD
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## SOCIETY HISTORY

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<tr>
<td>Memphis</td>
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<td>St. Louis</td>
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<tr>
<td>Baltimore</td>
<td>Johns Hopkins University</td>
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### PAST MEETINGS OF THE SOCIETY

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<thead>
<tr>
<th>Location</th>
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<td>Columbus</td>
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<tr>
<td>Dallas</td>
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<td>Hershey</td>
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<td>Seattle</td>
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<tr>
<td>N/A</td>
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<tr>
<td>Austin</td>
<td>JW Marriott Austin</td>
<td>October 15–16, 2021</td>
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FUTURE MEETINGS OF THE SOCIETY

Dallas
University of Texas Southwestern Medical Center
May 20-23, 2023

New York
Weill Cornell
2024

Cleveland
Cleveland Clinic
2025
SNS PROFESSIONALISM POLICY

Introduction
The SNS has unique organizational qualities derived from serving as the representative society for residency program directors and academic department chairs of neurological surgery. This requires the highest standards for professional conduct appropriate to set an example in the education of future neurosurgeons and to avoid conflicts of interest amongst neurosurgical educators.

On July 26, 2018, the SNS proposed that the One Neurosurgery Summit create a Professionalism Task Force representing the Summit organizations. This task force developed the One Neurosurgery Summit Professionalism and Harassment Model Policy. The intention was that each organization would then utilize and adapt the model policy as required for the special characteristics of its own organization, membership, and By-Laws. The following policies utilize the same definitions included in the One Neurosurgery Summit Professionalism and Harassment Model Policy.

Policy
1. Participants of any SNS or SNS sponsored event will not engage in any behavior that will undermine or interfere with the goals and purposes of the event including, but not limited to:
   1.1. The use of offensive or insensitive language or behavior;
   1.2. The use of denigrating comments based on race, national or ethnic origin, color, religion, age, sex, sexual orientation, gender or disability; or
   1.3. Harassment, threatening behavior or similar intimidation, or assault of other participants.
2. The SNS endorses a Code of Conduct that requires equal and respectful treatment of others, non-harassment, and non-retaliation, as well as ethical and professional behavior in the conduct of patient care and other professional activities.
   2.1. All participants of any SNS event will sign an acknowledgment of willingness to adhere to the meeting policy regarding harassment.
   2.2. All SNS members and SNS event participants will be provided this Code of Conduct at the time of event registration and the Code of Conduct will be posted on the event site and in the appropriate location on the SNS website.
   2.3. The SNS will also review the submission of any finding by a relevant professional body of unethical or unprofessional behavior by an SNS member in the conduct of patient care or other professional activities. Such professional bodies include but are not limited to state medical boards and licensing agencies, the medical executive committee of the hospital at which the member practices, the American Board of Neurological Surgery, and/or the American Association of Neurological Surgeons (AANS) Professional Conduct Program.
3. The SNS will provide a specific mechanism for reporting conduct that violates the Code of Conduct that will be easily accessed by all members and event participants.
   3.1. Any urgent or emergent issues will be addressed by calling 911.
   3.2. Any immediately threatening issues will be addressed by calling 911 or other authorities (police).
   3.3. A mechanism for protecting the identify of any individual reporting conduct that violates the Code
3.4. Investigation and adjudication will be through a special task force appointed by the President of the SNS to include the Secretary (who will serve as Chair), the President-Elect and 3 additional SNS members in good standing. If the alleged violation relates to diversity or gender, then the task force will make every effort to include representation from that community.

3.5. Accused members will be given the opportunity to make a written or oral statement to the special task force before any task force recommendations are made.

3.6. The Task Force will collect preliminary information from pertinent individuals in written form and then within 3 months make a preliminary recommendation to the Executive Council.

3.7. Where appropriate, the SNS President may additionally or alternatively refer concerns for review by an appropriate external body, including but not limited to the AANS Professional Conduct Program.

3.8. The SNS Task Force and/or a delegated review body will share findings and make recommendations for action to the SNS Executive Council (SNS Bylaws, Article II, Section B.6).

3.9. An accused member, who after full review and recommendation by the special task force is subject to action by the SNS Executive Council, may request the opportunity to submit a written appeal. The Council will review appeals and provide timely responses to accused members.

4. Code of Conduct violation reports should be directed through regular or electronic mail or by telephone to an SNS officer, or through submission of an online complaint form. The online complaint form will be present on the SNS website and a link to it will be included in Code of Conduct materials distributed at SNS events.

5. The SNS will develop or obtain educational material with review required for all Executive Committee members, committee chairs, course directors and holders of other leadership positions prior to assuming duties. Repeat training will be required every 5 years for individuals with ongoing SNS leadership roles.

6. Individuals reporting Code of Conduct Violations will be protected in the same manner as all reporters and whistleblowers:
   6.1. Individuals will be protected from retaliation for reporting in good faith behavior or information which the individual reasonably believes is a violation of this policy.
   6.2. To the extent appropriate, the host organizations will endeavor to keep complaints, investigations and any findings related thereto confidential.

7. The SNS will designate one member of the Annual Meeting Program Committee (or equivalent for other SNS events) to monitor the content of all presentations for compliance with the Code of Conduct. The Chair of the Committee on Resident Education and CoRE subcommittee chairs will serve the same role for SNS curricular materials under their purview.
   7.1. The relevant event planning committee will review possible Code of Conduct violations.
   7.2. The event planning committee will report to the violation to the SNS President and Secretary with a recommendation for an appropriate course of action to include:
SNS PROFESSIONALISM POLICY

7.2.1. Letter of information;
7.2.2. Letter of reprimand;
7.2.3. Temporary removal from participation in SNS events in a leadership or teaching capacity;
7.2.4. Or permanent removal from participation in SNS events in a leadership or teaching capacity
7.3. Two thirds of the voting members of the SNS Executive Committee may approve final recommendations for action.
7.4. This process will be completed within 6 months of each SNS event.
8. SNS event planning committees will evaluate all social components of educational events to assure their suitability, promote standards of professionalism, and reduce risk for violation of the Code of Conduct:
   8.1. Special attention will be given to social events involving alcohol where residents or junior neurosurgeons directly interact with senior neurosurgeons.
   8.2. Duration of events and the availability of alcohol should be assessed as reasonable for the purpose of the event.
   8.3. Alcohol will only be available with the concurrent provision of food.
   8.4. Event planning committees should include information about associated social components for approval by the SNS Executive Committee.
9. Guests at any SNS event (speakers, spouses, etc.) will be held to the Code of Conduct as SNS members and may be barred by the SNS Executive Committee from future guest participation.
10. This policy will be reviewed every 5 years after adoption.
11. Reports of individual incidents occurring at SNS sponsored events must be made within 30 days of the event. Other reports of professional conduct violations may be made at any time.
The Society of Neurological Surgeons is making every effort to provide its members with timely and useful communication, via email and our website. For this reason, it is particularly important for the Secretary’s office to have all of your current and accurate contact and biographical information. For your convenience, please visit the SNS website at societyns.org to update your email address, mailing address, biography, current photograph, and other information.

If you need further assistance, please contact the Secretary’s office at:

Nathan R. Selden, MD, PhD
Society of Neurological Surgeons
10 N. Martingale Rd., Suite 190
Schaumburg, IL 60173
Phone: 847-805-4515
E-mail: sns@cns.org
Save the Date

The Society of Neurological Surgeons
2023 Annual Meeting

University of Texas Southwestern Medical Center
Dallas, TX
May 20-23, 2023