The Society of Neurological Surgeons holds as its principal mission:

To advance the quality of care of neurosurgical patients by promoting excellence in education and research.

The Society fulfills its mission by pursuing the following goals:

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

This live meeting, titled The Future of Education in the New Millenium, will include lectures by renowned specialists and invited speakers, workshops, panel discussions and opportunities for questions and answers. Attending neurosurgeons and program coordinators involved in neurosurgical residency training and graduate medical education are the intended audience for this program.
Jointly Provided by the AANS

Welcome to the
Society of Neurological Surgeons
110th Meeting in the 99th Year

Hosted by
University of Washington
Department of Neurological Surgery Seattle

The Future of Education in the New Millennium

Upon completion of this program, participants should be able to:

• Identify components of the evaluation of Faculty Evaluators
• Describe the role of Program Director
• Describe approaches to developing leadership within departments and health care systems
• Identify routes for neurosurgical research training across the spectrum from medical student to faculty
• Describe mechanisms for incorporating research in residency training
• Identify strategies for achieving competence and autonomy in the operating room
FRIDAY, May 17, 2019
4:00-6:00 p.m.  Registration  Fairmont Olympic Hotel

SATURDAY, May 18 – Executive Council Members Only
7:00-8:00 a.m.  Members and PD Breakfast  Fairmont Olympic Hotel, Spanish Foyer
11:30 a.m.-4:00 p.m.  Executive Council Meeting  Fairmont Olympic Hotel, Senate Room

SATURDAY, May 18 – All
7:00 a.m.-5:00 p.m.  Registration  Fairmont Olympic Hotel, Spanish Foyer

RESIDENCY PROGRAM DIRECTOR AND COORDINATOR SESSION  Fairmont Olympic Hotel, Spanish Ballroom

8:00-8:55 a.m.  Educating the Educators -
                 Moderator: Griffith Harsh, MD
8:00-8:15 a.m.  What is a Program Director?  Nicholas Barbaro, MD
8:15-8:30 a.m.  How to Evaluate Faculty Evaluators  Michael Haglund, MD, PhD
8:30-8:45 a.m.  Creating Professionalism and the Culture of Neurosurgery  Karin Muraszko, MD
8:45-8:55 a.m.  Questions and Discussion
8:55-9:15 a.m.  Posting Cases for the ABNS – Carl Heilman, MD
9:15-9:30 a.m.  Case-Based ABNS Experience: What’s Going on Out There?  Richard G. Ellenbogen
9:30-9:50 a.m.  Break
9:50-10:35 a.m.  One Neurosurgery Summit Leadership Report Out  Daniel Barrow, MD, John Wilson, MD, Steven Kalkanis, MD, Carl Heilman, MD, Nicholas Barbaro, MD, E. Antonio Chiocca, MD, PhD, Katie Orrico, JD
10:35-10:50 a.m.  Questions and Discussion
Mandating a Neurosurgery Rotation for Medical Students: The Columbia Experience – E. Sander Connolly, MD

Resident Selection Process vs. Dr. Death - M. Sean Grady, MD

Transition-to-Practice: Making it Relevant - Richard Byrne, MD

Questions and Discussion

Lunch: Fairmont Olympic Hotel
Spanish Foyer with additional seating in the Metropole Room

RRC Update, OR Competency, RUNN Course and Medical Student Engagement
Moderator: Oren Sagher, MD

RRC Update: Pamela Derstine, PhD.

Questions and Discussion

Break

Social Learning Theory Applied to Competency Based Intra-operative Teaching - Michael Haglund, MD

Questions and Discussion

Impact of the RUNN Course on My Career - Suzanne Tharin, MD, PhD

Questions and Discussion

Early Medical School Engagement and Neurosurgical Interest Groups - Michael McDowell, MD, UPMC Resident

Medical Student Committee Update - Stacey Wolfe, MD

SNS Committee Meetings

CAST Meeting
St. James

CoRE and Resident Courses Committees
Windsor

Portal Leadership Discussion
Senate

Medical Student Committee
Parliament

*Note: Research Committee Meeting moved to Monday, 12:00-1:00 p.m, Kensington Room

Opening Reception: Fairmont Olympic Hotel, Metropole Room
Light hors d’oeuvres and a selection of Northwest wines and beers served.
Attire: Seattle Casual
SCIENTIFIC AND SOCIAL PROGRAM

SUNDAY, May 19

7:00 a.m.-5:00 p.m. Registration  
Fairmont Olympic Hotel,  
Spanish Foyer

7:00-8:00 a.m. Breakfast  
Fairmont Olympic Hotel,  
Spanish Foyer with additional  
seating in Metropole Room

SESSION 1: SUNDAY MORNING
Host Program: University of Washington Department of Neurological Surgery -  
A SWOT Analysis
Fairmont Olympic Hotel, Spanish Ballroom  
Moderator: Richard G. Ellenbogen, MD

8:00-8:05 a.m. Welcome from Local Host, and SNS Program Chair  
Richard G. Ellenbogen, MD and Aviva Abosch, MD, PhD

8:05-8:20 a.m. Video of UW System: A Week in the Life of a Neurosurgical Resident - Richard G. Ellenbogen, MD

8:20-8:35 a.m. Department Business Model  
Jana M. Pettit, MBA

8:35-8:50 a.m. Harborview Medical Center  
Louis J. Kim, MD

8:50-9:05 a.m. University of Washington Medical Center  
Manuel Ferreira, MD, PhD

9:05-9:20 a.m. Seattle Children’s Hospital  
Jeffrey G. Ojemann, MD

9:20-9:35 a.m. Cancer: Fred Hutchinson, CRC and SCCA  
Eric C. Holland, MD, PhD

9:35-9:50 a.m. Harborview and WWAMI Trauma System  
Randall M. Chesnut, MD

9:50-10:05 a.m. Break

10:05-10:15 a.m. Puget Sound VA  
Mikhail Gelfenbeyn, MD, PhD

10:15-10:30 a.m. UW Neurological Surgery Residency and Education  
Michael Levitt, MD and Amy Lee, MD

10:30-10:45 a.m. Innovation and Entrepreneurship in the Department  
Samuel R Browd, MD, PhD

10:45-11:00 a.m. Teaching Residents How to Operate  
Laligam N Sekhar, MD
11:00-11:15 a.m.  Spine Collaboration at UW Medicine
   Fangyi Zhang, MD

11:15-11:30 a.m.  Building a Neurosciences Institute
   Marc Mayberg, MD

11:30-11:45 a.m.  UW Neurological Surgery Research Overview
   Jeffrey G. Ojemann, MD

11:45 a.m.-Noon  Sharing Challenges (Questions)
   Richard G. Ellenbogen, MD

Noon-1:00 p.m.  Lunch: Fairmont Olympic Hotel
   Spanish Foyer with additional seating in the Metropole Room

SESSION 2: SUNDAY AFTERNOON
Fairmont Olympic Hotel, Spanish Ballroom
Moderator: Aviva Abosch, MD, PhD

1:00-1:05 p.m.  Introduction of Keynote Speaker
   Richard G. Ellenbogen, MD

1:05-1:40 p.m.  Keynote Address: New Cellular and Molecular Approaches
to Understand Human Brain Function and Disease
   Ed Lein, PhD, Investigator, Allen Brain Institute

1:40-1:45 p.m.  Questions and Discussion

1:45-2:40 p.m.  Mentoring, Wellness, Resilience, and Avoiding Burnout
   Moderator: Deborah Benzil, MD

1:45-2:00 p.m.  Burn Out: Fact or Fiction
   Fredric B. Meyer, MD

2:00-2:15 p.m.  Wellness and Creating Resilience
   Theresa Williamson, MD, Duke Neurosurgery Resident

2:15-2:35 p.m.  One Neurosurgery SNS Summit Meeting: Integration and
Coordination of Leadership and Resources
   Daniel L. Barrow, MD

2:35-2:40 p.m.  Questions and Discussion

2:40-2:45 p.m.  Neurosurgery Medical Student Teaching Award to Henry Brem, MD
   Presented by Stacey Wolfe, MD

2:45-2:50 p.m.  Distinguished Service Award to Arthur L. Day, MD
   Presented by Daniel Barrow, MD
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:50-3:10 p.m.</td>
<td><strong>Break</strong></td>
</tr>
<tr>
<td>3:10-4:10 p.m.</td>
<td><strong>Incorporating Research Training During Residency in 2019</strong></td>
</tr>
<tr>
<td></td>
<td><em>Moderator: Aviva Abosch, MD, PhD</em></td>
</tr>
<tr>
<td>3:10-3:25 p.m.</td>
<td>Clinical Trials Training</td>
</tr>
<tr>
<td></td>
<td><em>Sepideh Amin-Hanjani, MD</em></td>
</tr>
<tr>
<td>3:25-3:35 p.m.</td>
<td>Teaching Residents How to Disseminate Their Research</td>
</tr>
<tr>
<td></td>
<td><em>Nelson Oyesiku, MD, PhD</em></td>
</tr>
<tr>
<td>3:35-3:45 p.m.</td>
<td>Mentoring and Supporting Clinician-Scientists During Residency</td>
</tr>
<tr>
<td></td>
<td><em>David Limbrick, MD</em></td>
</tr>
<tr>
<td>3:45-4:10 p.m.</td>
<td>Questions and Discussion</td>
</tr>
<tr>
<td>4:10-4:15 p.m.</td>
<td>Introduction of Winn Award Lecturer</td>
</tr>
<tr>
<td></td>
<td><em>E. Antonio Chiocca, MD, PhD</em></td>
</tr>
<tr>
<td>4:15-5:00 p.m.</td>
<td><strong>Winn Award Lecture: Pediatric Brain Tumors in the Molecular Era</strong></td>
</tr>
<tr>
<td></td>
<td><em>Michael Taylor, MD, PhD</em></td>
</tr>
<tr>
<td>6:30-9:00 p.m.</td>
<td><strong>Reception and Buffet Dinner</strong>: Benaroya Hall Grand Lobby,</td>
</tr>
<tr>
<td></td>
<td>entrance located on Third Avenue, at University Street</td>
</tr>
<tr>
<td></td>
<td><strong>Attire: Business Casual</strong></td>
</tr>
</tbody>
</table>

**MONDAY, May 20**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 a.m.-5:00 p.m.</td>
<td><strong>Registration</strong></td>
</tr>
<tr>
<td>6:30-7:30 a.m.</td>
<td><strong>Members Only Breakfast and Business Meeting</strong></td>
</tr>
<tr>
<td>6:30-7:30 a.m.</td>
<td><strong>Non-Member Breakfast</strong></td>
</tr>
</tbody>
</table>

*Fairmont Olympic Hotel, Spanish Foyer*
SESSION 3: MONDAY MORNING
Leadership Session
Fairmont Olympic Hotel, Spanish Ballroom
Moderator: Ashwini Sharan, MD

8:00-8:10 a.m.  Introduction of Topic and Issues: My Road to Leadership
Shelly Timmons, MD, PhD

8:10-8:20 a.m.  CNS Journey in Physician Leadership
Lola Chambless, MD

8:20-8:30 a.m.  Paths to Physician Leadership: Example of a 4-yr Program
Roland Eavey, MD

8:30-8:40 a.m.  Paths to Physician Leadership: Example of an ACS Physician
Bhagwan Satiani, MD, MBA

8:40-9:00 a.m.  Questions and Discussion

9:10-9:15 a.m.  Introduction of Keynote Speaker
Aviva Abosch, MD, PhD

9:15-9:40 a.m.  Keynote Address: Training to win in the 21st Century
Yasmin Farooq, Head Coach, UW Women’s Rowing

9:40-9:45 a.m.  Questions and Discussion

9:45-10:00 a.m.  Break

10:00-10:15 a.m.  Enfolded Fellowships or Not? Introduction of Topics and Issues
Moderator: Nicholas Barbaro, MD

10:15-10:25 a.m.  The Case for Enfolded Sub-Specialty Fellowships
Arthur L. Day, MD

10:25-10:35 a.m.  The Case for Sub-Specialty Fellowship Training After Residency Completion
Michael McDermott, MD

10:35-10:45 a.m.  The Case for Shortening Residency
Christopher I. Shaffrey, MD

10:45-11:00 a.m.  Moderated Panel Discussion with Audience Questions

11:10-11:55 a.m.  Presidential Address: Pedagogy - Foundations and Future
Daniel L. Barrow, MD
11:55 a.m. – Noon  
Presentation of Presidential Gavel  
Daniel L. Barrow, MD to Karin Muraszko, MD

Noon-1:00 p.m.  
Lunch: Fairmont Olympic Hotel  
Spanish Foyer with additional seating in the Metropole Room

SESSION 4: MONDAY AFTERNOON  
Training Session  
Fairmont Olympic Hotel, Spanish Ballroom  
Moderator: Stacey Wolfe, MD

1:00-1:05 p.m.  
Introduction of Keynote Speaker  
Richard G. Ellenbogen, MD

1:05-1:35 p.m.  
Keynote Address: Why this is the Most Exciting Time for Medicine in History  
Paul G. Ramsey, MD, CEO of UW Medicine, Executive Vice President for Medical Affairs, Dean of the UW School of Medicine

1:35-1:45 p.m.  
Questions and Discussion

1:45-2:15 p.m.  
Break

2:15-4:25 p.m.  
Training Neurosurgeons in the 21st Century  
Moderator: Stacey Wolfe, MD

2:15–2:40 p.m.  
Intrinsic Generational Considerations: Baby Boomers vs. Millennials  
Alejandro Spiotta, MD

2:40-3:05 p.m.  
Extrinsic Considerations: Factors Leading to Burnout  
Ben Kennedy MD

3:05-3:25 p.m.  
Achieving a Diverse Workforce: Reflecting the Nation  
Ellen Air, MD, PhD

3:25-3:45 p.m.  
Engaging Millennials: The Data  
Michael Haglund, MD, PhD

3:45-4:00 p.m.  
Questions and Discussion

4:00-4:20 p.m.  
Intersection of Music and Medicine  
Donald Quest, MD

4:20-4:25 p.m.  
Introduction of Grossman Award Lecture  
Daniel L. Barrow, MD

4:25-5:00 p.m.  
Grossman Award Lecture: Experiencing Science  
Leland H. Hartwell, PhD, 2001 Nobel Laureate  
President and Director Emeritus  
Fred Hutchinson Cancer Research Center.  
Professor, Arizona State University
5:00-5:10 p.m. Questions and Discussion

6:30-9:00 p.m. Reception: Seattle Art Museum
Entrance located on First Avenue at Union Street, heavy hors d’oeuvres served
Attire: Seattle Casual

TUESDAY, May 21

6:30–7:30 a.m. Breakfast
Fairmont Olympic Hotel,
Spanish Foyer with additional seating in Metropole Room

SESSION 5: TUESDAY MORNING
Updates Session
Fairmont Olympic Hotel, Spanish Ballroom
Moderator: Nathan Selden, MD, PhD

7:30-7:45 a.m. CAST Update
Arthur L. Day, MD

7:45-8:00 a.m. CoRE and Resident Course Update
Gregory J. Zipfel, MD and Richard Byrne, MD

8:00-8:15 a.m. RUNN Course Update
Allan H. Friedman, MD

8:15-8:30 a.m. ABNS Update
Richard G. Ellenbogen, MD and Carl Heilman, MD

8:30-8:45 a.m. Washington Committee Update
Ann R. Stroink, MD

8:45-9:00 a.m. Questions and Discussion

9:00-9:20 a.m. Social Learning Theory and Achieving Operating Room Competence
Michael Hagland, MD, PhD

9:20-9:40 a.m. Applications of Social Learning Theory to General Surgery Training
Brian George, MD General Surgery (NW)

9:40-10:00 a.m. Gender Disparities and Metra-cognitive Skills in Neurosurgery
Michael Haglund, MD, PhD

10:00 a.m. Adjourn

10:00 a.m.-Noon Executive Council Meeting
Fairmont Olympic Hotel,
Senate Room