PROGRAM

WEDNESDAY, FEBRUARY 28th
1:00-5:00 pm  Meeting Registration
2:00-4:00 pm  Executive Committee Meeting

THURSDAY, MARCH 1st
7:00-1:00 pm  Meeting Registration
7:00–7:30 am  Breakfast with Exhibitors

Scientific Session I – Spine #1
Moderators: Peter Grossi, MD and Matt Gary, MD

7:30-7:35 am  Opening Remarks
   Eric W. Nottmeier, MD - SNS President

7:35-7:50 am  Risk Stratification and Artificial Intelligence in Spinal Surgery:
   Dawn of a New Age
   Christopher P. Ames, MD – UCSF Spine Center

7:50–8:05 am  Options and Rationale for Radiation Reduction
   Robert E. Isaacs, MD – Duke University Spine Center

8:05-8:15 am  Discussion

8:15-8:21 am  Standard Abstract #1:
   Who Is the Best? A Risk-Adjusted Ranking Scheme for Surgeons and
   Practices Based on Lumbar Surgery Outcomes
   Clinical Science Award Winner
   Ahilan Sivaganesan, MD; Anthony Asher, MD; Mohamad Bydon, MD;
   Panagiotis Kerezoudis, MD; Hui Nian, PhD; Frank Harrell, PhD; and
   Clinton J. Devin, MD

8:21-8:27 am  Standard Abstract #2:
   Accuracy, Radiation Time, and Radiation Exposure Using Computer-
   assisted Instrument Navigation Vs. Conventional C-arm Fluoroscopy for
   Spine Surgery Instrumentation
   Basic Science Award Runner Up
   Timothy Y. Wang, MD; Vikram; Mehta, MD, MPH; Eric O. Sankey, MD;
   Farah Hamouda, BS; Juan Uribe, MD; and Muhammad Abd-El-Barr, MD,
   PhD
8:27-8:33 am Standard Abstract #3:
The Institute for Healthcare Improvement - NeuroPoint Alliance Cooperative Quality Improvement Project: Using National Registries to Design Continuous Quality Improvement Protocols
Vincent J. Rossi; Scott Zuckerman, MD; Anthony Asher, MD; Clinton Devin, MD; Kevin Foley, MD; John Knightly, MD; Erica Bisson, MD; and Steven Glassman, MD

8:33-8:39 am Standard Abstract #4:
Early Ambulation Leads to Decreased Length of Hospital Stays in Patients Undergoing Lumbar Laminectomy
Jang W. Yoon; James Ebot, DO; Gaetano D. Biase; Selby G. Chen, MD; Stephen M. Pirris, MD; Eric Nottmeier, MD; Clarence B. Watridge, MD; Hugh G. Deen, MD; Ronald Reimer, MD; Mark A. Pichelmann, MD; and Robert E. Wharen, MD

8:39-8:45 am Standard Abstract #5:
Enhanced Recovery Approach for Minimally-invasive Transforaminal Lumbar Interbody Fusion (TLIF) Reduces Hospital Stay and Opioid Consumption: A Single Institution Comparison
G. Damian Brusko, BS; Karthik Madhavan, MD; Richard Epstein, MD; John Paul G. Kolcun, BS; Jay Grossman, MD; and Michael Y. Wang, MD

8:45-8:48 am Rapid Fire Abstract #6:
Utilization Trends of Cervical Disk Replacement in the United States: A Population-Based Study
Adeeb Sebai, MD; Mohammed Ali Alvi, MD; Panagiotis Kerezoudis, MD; Anshit Goyal, MD; Sandy Goncalves, MS; Daniel Ubl, MPH; Elizabeth Habermann, MPH, Ph.D; Selby Chen, MD; Mark A. Pichelmann, MD; Clarence Watridge, MD; H. Gordon Deen, MD; and Mohamad Bydon

8:48-8:51 am Rapid Fire Abstract #7:
Independent Associations with 30- and 90-Day Unplanned Readmissions After Elective Lumbar Spine Surgery: A National Trend Analysis of 144,123 Patients
Aladine Elsamadicy; Xinru Ren; Hanna Kemeny; Leiko Charalambous; Amanda Sergeesketter; Shervin Rahimpour, MD; Theresa Williamson, MD; Rory Goodwin, MD, PhD; Muhammad Abd-El-Barr, MD, PhD; Oren Gottfried, MD; Jichun Xie, PhD; and Shivanand Lad, MD, PhD

8:51-8:54 am Rapid Fire Abstract #8:
The Role of Minimally Invasive Anterior Column Reconstruction in Maintaining Sagittal Balance
Jason Paluzzi, MD; Andrew Vivas, MD; Jacob Januszewski, DO; Brooks Osburn, MD; and Juan Uribe, MD

8:54-8:57 am Rapid Fire Abstract #9:
Assessment of Proximal Junctional Kyphosis and Shoulder Balance with Proximal Screws vs. Hooks in Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis
Andrew C. Vivas, MD; Steven W. Hwang, MD; Amer F. Samdani, MD; and Joshua M. Pahys, MD
8:57-9:00 am  Rapid Fire Abstract #10: Percutaneous Treatment of Discogenic Back Pain with a Plasma Wand
*Caitlin M. Clark, MD; Winston C. Clark*

9:00-9:10 am  Discussion

9:10-9:15am  Introduction to Ned Downing Lecture

9:15-9:45 am  Ned Downing Lecture

9:45-10:15 am  Refreshment Break with Exhibitors

**Scientific Session 2 – Cranial (Tumors)**
*Moders: Vijay Agarwal, MD and Michael Decuypere, MD*

10:15-10:30 am  Brain Surgery: From Peru to Egypt and Back to the Mayo Clinic
*Alfredo Quiñones-Hinojosa, MD – Mayo Clinic Jacksonville*

10:30-10:45 am  CNS Tumor Immune Responses and their Influence on Immunotherapy Strategies
*Amy Heimberger, MD – Univ. of TX MD Anderson Cancer Center*

10:45-10:55 am  Discussion

10:55-11:01 am  Standard Abstract #11: Machine-learning Analyses Can Differentiate Meningioma Grade by Features on Magnetic Resonance Imaging
*Andrew T. Hale; David P. Stonko, MS; Li Wang; Megan K. Strother, MD; and Lola B. Chambless, MD*

11:01-11:07 am  Standard Abstract #12: Characterizing the Over-expression of Yki/YAP/TAZ Transcription Factors in Gliomagenesis and A Proposed Novel Treatment of Glioblastomas
*Basic Science Award Winner
Krishanthan Vigneswaran, MD; Se-Yeong Oh, PhD; Shoeb Lallani; Renee Read, PhD; and Jeffrey Olson, MD*

11:07-11:13 am  Standard Abstract #13: Preoperative Albumin Level Predicts Length of Stay After Craniotomy for Brain Tumor
*Whitney Muhlestein, BA and Lola B. Chambless, MD*

*Akshitkumar Mistry; Patrick Kelly; Reid Thompson; and Lola Chambless*
Hanna Kemeny; Aladine Elsamadicy; Amanda Sergesketter; Pakawat Chongsathidkiet, MD; Karolina Woroniecka; David Jang, MD; Patrick Codd, MD; and Peter Fecci, MD, PhD


11:28-11:31 am  Rapid Fire Abstract #17: Independent Risk Factors of Cranial Nerve IX and X Dysfunction after Resection of Vestibular Schwannoma Peter J. Morone, MD, MSCI; Robert Yawn, MD; Deborah Xie, BS; Reid Thompson, MD; and Alejandro Rivas, MD

11:31-11:34 am  Rapid Fire Abstract #18: Endoscopic Endonasal and Transcranial Surgery for Microsurgical Resection of Ventral Foramen Magnum Meningiomas: A Preliminary Experience Nicolas K. Khattar, MD; Maria Koutourousiou, MD; Joseph Chabot, DO; Eric Wang, MD; Aaron Cohen-Gadol, MD; Carl H. Snyderman, MD; Juan C. Fernandez-Miranda, MD; and Paul A. Gardner, MD

11:34-11:37 am  Rapid Fire Abstract #19: Toward Minimizing Costs and Adverse Outcomes for Patients Undergoing Craniotomy for Brain Tumor: Identifying Patients at High Risk for Postoperative UTI Whitney E. Muhlestein and Lola B. Chambless, MD


11:40-11:50 am  Discussion

11:50-11:55 am  Introduction of Semmes Lecture John H. Sampson, MD, PhD – Duke University Cancer Center

11:55-12:25 pm  Semmes Lecture: “The Odyssey” Allan Friedman, MD - Duke University Cancer Center

5:30 – 7:00 pm  Welcome Reception
Exhibit Pavilion
FRIDAY, MARCH 2nd

7:00-1:00 pm  Meeting Registration

7:00–7:30 am  Breakfast with Exhibitors

Scientific Session 3 – Spine #2
Moderators: Chris Holland, MD and Ammar Hawasli, MD

7:30-7:35 am  Opening Remarks
   Eric W. Nottmeier, MD – SNS President

7:35-7:50 am  Lecture 1
   Mark A. Pichelmann, MD – Mayo Clinic Jacksonville

7:50–8:05am  The Pedicle Screw, the Good, The Bad, and the Ugly
   Volker K. H. Sonntag, MD – Barrow Neurological Institute

8:05-8:15 am  Discussion

8:15-8:21 am  Standard Abstract #21:
   Comparing Outcomes of Fusion versus Discectomy Alone for One-time
   Recurrent Lumbar Disc Herniation: A Systematic Review and Meta-
   analysis
   Yagiz Yolcu, MD; Mohammed Ali Alvi, M.B.B.S; Panagiotis Kerezoudis,
   MD; Mohamed Elminawy, MB.Bch; Sandy Goncalves, MS; Dennis Kurian,
   BSc; Joseph Cesare; Adeeb Sebai, MD; Clarence Watridge, MD; H. Gordon
   Deen, MD; Selby Chen, MD; Mark A. Pichelmann, MD; and Mohamad Bydon, MD

8:21-8:27 am  Standard Abstract #22:
   Does Patient Selection Account for the Perceived Cost Savings in
   Outpatient Spine Surgery?
   Mohammed Ali Alvi; Benjamin F. Mundell, Ph.D; Panagiotis Kerezoudis;
   Marcus Gates, MD; Anshit Goyal, MD; Samuel Hohmann, Ph.D; Brett
   A.. Freedman, MD; Ahmad Nassr, MD; Selby Chen, MD; Mark
   Pichelmann, MD; Clarence B. Watridge, MD; Gordon Deen, MD; and
   Mohamad Bydon

8:27-8:33 am  Standard Abstract #23:
   VariLift-L: An Anatomical Solution to Lumbar Spinal Instability
   Phillip A. Tibbs, MD

8:33-8:39 am  Standard Abstract #24:
   The Impact of Adding Posterior Instrumentation to Trans-psoas Lateral
   Fusion: A Systematic Review And Meta-analysis
   Mohammed Ali Alvi, MBBS; Redab Alkhataybeh, MB.Bch; Waseem
   Wahood, MS; Adeeb Sebai, MD; Panagiotis Kerezoudis, MD; Anshit
   Goyal, MD; Selby Chen, MD; H. Gordon Deen, MD; Mark A. Pichelmann,
   MD; Clarence Watridge, MD; M. Hassan Murad, MD; and Mohamad
   Bydon
8:39-8:45 am
Standard Abstract #25:
Surgical Outcomes Following Thoracic Disc Herniation Excision: Insights from the National Surgical Quality Improvement Program
Mohamed Elminawy, MB.BCh; Panagiotis Kerezoudis, MD; Kenan Rajjoub, BA; Mohammed Ali Alvi, MBBS; Abdullah K. Alamoudi, MD; Sandy Goncalves, MS; Anshit Goyal, MD; and Mohamad Bydon

8:45-8:48 am
Rapid Fire Abstract #26:
Neurological Outcomes Following Surgical or Conservative Management of Spontaneous Spinal Epidural Abscesses: A Systematic Review and Meta-analysis of Data from 1980 Through 2016
Timothy Y. Wang, MD; Stephen C. Harward, MD, PhD; Vadim Tsvankin, MD; Hannah Bell, BS; Lefko Charalambous, BS; Syed M. Adil, BS; Dario J. Englot, MD, PhD; C. Rory. Goodwin, MD, PhD; Isaac O. Karikari, MD; Robert E. Isaacs, MD; and Max O. Krucoff, MD

8:48-8:51 am
Rapid Fire Abstract #27:
Enterobacter Infection After Spine Surgery: Mayo Clinic Experience
Jang W. Yoon; Gaetano D. Biase; Panagiotis Kerezoudis, MD; Elie F. Berbari, MD; Mohamad Bydon; and Brett A. Freedman, MD

8:51-8:54 am
Rapid Fire Abstract #28:
Causes for Early Readmission in AIS Surgery
Andrew Vivas; Joshua M. Pahys, MD; Amer F. Samdani, MD; and Steven H. Hwang, MD

8:54-8:57 am
Rapid Fire Abstract #29:
Outcome Study for Minimally Invasive Sacroiliac Joint Fusion Using the Ifuse Implant System
James Ebot, DO and Gregory Smith, DO

8:57-9:00 am
Rapid Fire Abstract #30:
Experiences in Developing a Comprehensive Spine Center
Clarence B. Watridge, MD

9:00-9:10 am
Discussion

9:10-9:15 am
Introduction to Presidential Lecture
Volker K. H. Sonntag, MD – Barrow Neurological Institute

9:15-9:45 am
Presidential Address
Eric W. Nottmeier, MD – St. Vincent’s Spine & Brain Institute

9:45-10:15 am
Break with Exhibitors
Scientific Session 4 – Cranial (Vascular)
Moderators: Jonathan Grossberg, MD

10:15-10:30 am  Lecture 1
Carlos A. David, MD – Tufts University

10:30-10:45 am  Lecture 2
Ricardo Hanel, MD – Lyerly Baptist Health

10:45-10:55 am  Debate

10:55-11:01 am  Standard Abstract #31:
Mechanical Thrombectomy Outcomes With and Without Intravenous Thrombolysis in Stroke Patients: A Meta-Analysis
Clinical Science Award Runner Up
Akshitkumar Mistry; Eva Mistry; Mohammad Nakawah; Rohan Chitale; Robert James; John Volpi; and Matthew Fusco

11:01-11:07 am  Standard Abstract #32:
A Cost-Effectiveness Analysis to Determine Imaging Interval for Follow-up of Unruptured Intracranial Aneurysms
Spiros Blackburn

11:07-11:13 am  Standard Abstract #33:
Delayed Hydrocephalus after Aneurysmal Subarachnoid hemorrhage: Who and Why?
Oluwaseun Akinduro, MD; Neil Haranhalli, MD; Tito Vivas-Buitrago; Sara Ganaha, MD; Nnenna Mbabuie, MD; RabihTawk, MD; and William Freeman, MD

11:13-11:19 am  Standard Abstract #34:
Safety and Feasibility of External Ventriculostomy Drain Placement for Intracranial Pressure Management in Patients with Global Brain Edema after Acute Liver Failure and Orthotopic Liver Transplantation
Jang W. Yoon, MD, MS; James Ebot, DO; Justin H. Nguyen, MD; William D. Freeman, MD; Juan M. Canabal, MD; Ronald A. Reimer, MD; and Robert E. Wharen, MD-Mayo Clinic in Florida, Jacksonville, FL

11:19-11:25 am  Standard Abstract #35:
A Pilot Comparison of Multispectral Fluorescence to Indocyanine Green Videoangiography and Other Modalities for Intraoperative Assessment in Vascular Neurosurgery
Christopher M. Nickele, MD; Vince Nguyen, MD; Winfield Fisher, MD; William Couldwell, MD PhD; Emad Aboud, MD; Carlos David, MD; Jacques Morcos, MD; Cleopatra Charalampaki, MD PhD; and Adam Arthur, MD MPH

11:25-11:28 am  Rapid Fire Abstract #36:
An Evaluation of the Need for Hemicraniectomy after Thrombectomy in Acute Ischemic Infarction of the Middle Cerebral Artery Territory
Arsalaan Salehani; D. Mitchell Self; Bonita Agee; and William Stetler
Rapid Fire Abstract #37:
Magnesium as a Predictor of Hematoma Volume and Functional Outcome in Patients with Spontaneous Intracerebral Hemorrhage
Violiza Inoa, MD; Alexander Houck; Konark Malhotra, MD; Mike Broce, PhD; Chang J. Jason, MD; Lucas Elijovich, MD; Khalid Alsherbini, MD; Adam S. Arthur, MD, MPH; Daniel Hoit, MD; Christopher Nickele, MD; and Nitin Goyal, MD

Rapid Fire Abstract #38:
Antiplatelet Medication Reversal Strategies in Operative Intracranial Hemorrhage: A Survey of Practicing Neurosurgeons
Paul Foreman, MD; Adeel Illyas, MD; James Mooney, MD; Philip Schmalz, MD; and Christoph Griessenauer, MD

Rapid Fire Abstract #39:
Underrepresentation of Southern Institutions in AANS/NREF and CNS Research Awards
Taylor Wilson, MD, MS; Ebonye Green, MNSc, ACNPC-AG, APRN; Kesley Hundley, MD; Ka Hin Wong, BS; Rebekah Langston, BS; and Analiz Rodriguez, MD, PhD

Rapid Fire Abstract #40:
Discrepancy Between Neurosurgery Morbidity and Mortality Conference Discussions and Hospital Quality Metric Standards.
Lauren E. Rotman, MD; Arsalaan A. Salehini, MD; Devin R. Broadwater, MD; Nathaniel H. Reeve, MD; Matthew C. Davis, MD; and Kristen O. Riley, MD

Discussion

Introduction of Hudson Lecture

Hudson Lecture: “The British Empire: Ascent, Majesty, Retreat, and Legacy”
Nelson M. O’yesiku, MD, PhD – Emory School of Medicine

NREF update
Regis W. Haid, Jr. MD – Atlanta Brain and Spine Care

Concurrent Non-CME Workshops: Spine and Cranial

Family Night
SATURDAY, MARCH 3rd

7:00-1:00 pm  Meeting Registration
7:00–7:30 am  Breakfast

Scientific Session 5—Functional/Pediatric
Moderators: J. Nicole Bentley, MD and Eric Thompson, MD

7:30-7:35 am  Opening Remarks
Eric W. Nottmeier, MD – SNS President

7:35–7:50 am  Adult Chiari Surgery: Principles and Avoiding Failure
John J. Oro, MD – Colorado Chiari Institute

7:50–8:05 am  Lecture 2
Nandan Lad, MD, PhD – Duke University Medical Center

8:05 – 8:20 am  Robotics in Spine Surgery
Nicholas Theodore, MD – Johns Hopkins Medicine

8:20-8:30 am  Discussion

8:30-8:36 am  Standard Abstract #41:
ABC Transporter Inhibition Plus Vessel Permeability Reduction Enhances the Efficacy of CED in DIPG
Vadim Tsvankin, MD; Christopher Lascola, MD, PhD; Talaignar Venkatraman, PhD; Brainard Burrus, BS; Oren Becher; Eric M. Thompson

8:36-8:42 am  Standard Abstract #42:
The Influence of Surgical Correction on Age-related Changes in Cerebral Blood Flow in Rabbits with Familial Bicoronal Suture Craniosynostosis: A Quantitative Analysis
Ramesh Grandhi, MD; Lesley Foley; Geoffrey Peitz, MD; Christopher Bonfield, MD; Wendy Fellow-Mayle, PhD; T Kevin. Hitchens; and Mark P. Mooney

8:42-8:48 am  Standard Abstract #43:
Prenatal Closure of Myelomeningocele Results in Better Long-term Quality of Life than Postnatal Closure
Nishit Mummareddy, BA; Michael C. Dewan, MD, MSCI; Anna Huang; Jade Basem; Chevis N. Shannon, MBA, MPH, DrPH; and John Wellons III, MD, MSPH

8:48-8:54 am  Standard Abstract #44:
Percutaneous Balloon Compression in Trigeminal Pain Syndromes
Sanjeet S. Grewal; Panagiotis Kerezoudis, MD; Oscar Garcia, MPH; Alfredo Quinones-Hinojosa, MD; Ronald Reimer, MD; and Robert E. Wharen, MD
8:54-9:00 am  
Standard Abstract #45:  
Endoscopic Vs. Open Spring-Mediated Cranioplasty: The Wake Forest Experience  
*James L. West, MD* and *Daniel E. Couture, MD*

9:00-9:03 am  
Rapid Fire Abstract #46:  
A Retrospective Case Series Describing a Novel Technique for Evacuation of Chronic Subdural Collections in Infants and Associated Outcomes  
*Angela Palmer, MD* and *Gregory Albert, MD*

9:03-9:06 am  
Rapid Fire Abstract #47:  
Prevalence and Cost Analysis of Complex Regional Pain Syndrome (CRPS): A Role for Neuromodulation  
*Aladine Elsamadicy; Siyun Yang; Amanda Sergesketter; Bilal Ashraf; Lefko Charalambous; Hanna Kemeny; Tiffany Ejikeme; Xinru Ren; Promila Pagadala, PhD; Beth Parente; Jichun Xie, PhD; and Shivanand Lad, MD, PhD*

9:06-9:09 am  
Rapid Fire Abstract #48:  
Selective Amygdalectomy for the Treatment of “Paradoxical” Temporal Lobe Epilepsy: Technical Nuances and Case Series  
*Andrew Vivas, MD; Ryan Sever, MA; Christain Reitano, BS; Jason Paluzzi, MD; and Fernando Vale, MD*

9:09-9:12 am  
Rapid Fire Abstract #49:  
Peripheral Nerve Grafts into the Substantia Nigra to Alter the Progression of Parkinson’s Disease: Update of Outcomes at One Year  
*Craig van Horne, George Quintero, Andrew Welleford, Julie Gurwell, John Slevin, Greg Gerhardt*

9:12-9:15 am  
Rapid Fire Abstract #50:  
Neuronavigation for Trigeminal Rhizotomy  
*Meena Thaitkunta; Jessica Eaton, BA; and Haring Nauta, MD, PhD*

9:15-9:25 am  
Discussion  

9:25-9:30 am  
Introduction  
*Eric W. Nottmeier, MD – SNS President*

9:30-10:00 am  
Distinguished Practitioner Lecture:  
A Journey Through Time: 35 Years of Functional Neurosurgery  
*Robert E. Wharen, Jr., MD – Mayo Clinic Jacksonville*

10:00-10:25 am  
Refreshment Break
Scientific Session 6 – Trauma/military
Moderators: William Gump

10:25-10:40 am  Military Neurosurgery- What Have We Learned After Almost 15 Years of War
Christopher Neal, MD – Walter Reed National Military Medical Center

10:40-10:55 am  Military Neurosurgery – Providing Care After the Wars
Cory Adamson, MD – Emory University

10:55-11:05 am  Discussion

11:05-11:11 am  Standard Abstract #51:
Hawasli; Rutlin; Roland; Murphy; Song; Leuthardt; Shimony; Ray

11:11-11:17 am  Standard Abstract #52:
The Role of Family and Personal Psychiatric History in Post-Concussion Syndrome: A Story of Compounding Risk
Andrew D. Legarreta, BA; Benjamin L. Brett, MS; Gary S. Solomon, PhD; and Scott L. Zuckerman, MD

11:17-11:23 am  Standard Abstract #53:
Surgical Treatment for Chronic Subdural Hematoma in the Elderly
Jonathan Parish, MD; Mackenzie Jones; Michael Shields; Deborah Pfortmiller, PhD, MA; and Mark Van Poppel, MD

11:23-11:29 am  Standard Abstract #54:
Neurosurgery in World War II: Insights from the Wartime Correspondence of Charles and Mary Neill
John C. Neill, MD-Retired

11:29-11:35 am  Standard Abstract #55:
Global Neurosurgery in the Age of Big Data
James L. West, MD and Daniel E. Couture, MD

11:35-11:38 am  Rapid Fire Abstract #56:
Persistent Pneumocephalus Following Cranialization Of Frontal Sinuses: An Endoscopic Approach for Skull Base Defect Repair
Angel Chinea, MD; Fernando Vale, MD; and Mark H. Tabor, MD

11:38-11:41 am  Rapid Fire Abstract #57:
The Second Cuban-USA Encounter: An Update
Stephen Reintjes, MD; Eric Sherburn; Puya Alikhani; Daniel Couture; Cory Adamson; and Fernando Vale, MD
11:41-11:44 am  Rapid Fire Abstract #58:  
Patient Reported Experience following Ambulatory Procedures of the Nervous System  
Panagiotis Kerezoudis, MD; Kristine T. Hanson, MPH; Mohammed Ali Alvi, MBBS; Yagiz Yolcu, MD; Waseem Wahood, MS; Elizabeth Habermann, Ph.D; Selby Chen, MD; Mark A. Pichelmann, MD; H. Gordon Deen, MD; Clarence B. Watridge, MD; and Mohamad Bydon

11:44-11:47 am  Rapid Fire Abstract #59:  
Adapting Your Neurosurgery Practice to the More Digital Savvy Patient  
Daniel Goldberg

11:47-11:50 am  Rapid Fire Abstract #60:  
Special Considerations for the Treatment of Idiopathic Intracranial Hypertension  
Sara Ganaha, MD; Sanjeet S. Grewal, MD; Victoria Gomez, MD; Eric R. Eggenberger, DO; Vivek Gupta, MD; Prasanna Vibhute, MD; Otto Pedraza, MD; Mohit Chauhan, MBBS; Neill R. Graff-Radford, MD; Benjamin L. Brown, MD; Betty YS. Kim, MD, PhD; Rabih G. Tawk, MD; Ronald Reimer, MD; Robert E. Wharen; Alfredo Quinones-Hinojosa, MD; and Clarence B. Watridge, MD

11:50-12:00 pm  Discussion

12:00-12:15 pm  Washington Update  
Ann R. Stroink, MD FAANS – Washington AANS/CNS Committee Chair

12:15-12:25 pm  Business Meeting

12:25–12:30 pm  Closing Remarks  
Reid Thompson, MD – Incoming SNS President

6:30–10:30 pm  Final Reception & Banquet