

75th Southern Neurosurgical Society Annual Meeting

February 5–8, 2025 | Marco Island, FL

SCIENTIFIC PROGRAM

Ετοιμοι για αλλαγή—Ready for Change

President Stephen Pirris
Vice-President Michael Wang
Scientific Program Spiros Blackburn

THURSDAY, FEBRUARY 6

7:00–7:30 am Registration; Attendee & Exhibitor Breakfast **Banyan 1 & 2**
7:30–7:40 am Meeting Welcome and Agenda Introduction **Banyan 3**
Stephen Pirris and Spiros Blackburn

Scientific Session I Spine and Peripheral Nerve

Moderator: Mike Wang **Banyan 3**

7:40–7:50 am The Kama Sutra of Robotic Spine Surgery Timur Urakov
7:51–8:01 am Endoscopic Spine Surgery Patrick Kim
8:02–8:12 am Benefits of Awake Spine Surgery Kingsley Abode
8:13–8:23 am Posterior Cervical Minimally Invasive Fusion Vince Rossi
8:24–8:34 am Discussion
8:35–9:05 am **Controversial Spine Case Presentation**
Moderator: Mike Wang
Panel: Jessica Stark, Cory Hartman, Jamie Wilson, Jang Yoon

9:05–9:35 am Refreshment Break with Exhibitors **Banyan 1 & 2**

Scientific Session II Best Paper Abstracts & Industry Presentations **Non-CME**

Moderator: Carlos David + Peter Grossi **Banyan 3**

9:35–10:30 am **Abstracts & Discussion**
9:35–9:40 am **Paper #1: Anil Nanda Award Winner: Acute Phase Recording of the Spreading Depolarization Continuum in Aged Non-Human Primates After Focal Ischemic Stroke** Luca Debs
9:40–9:45 am **Paper #2: Connectomic Change in the Sensory Motor Network Predicts Improvements in Clinical Function for Patients with Idiopathic Normal Pressure Hydrocephalus (iNPH)** Michael W. McDermott
9:45–9:50 am **Paper #3: Impact of Time to VNS Implantation on Seizure Reduction in Patients with Refractory Epilepsy** Adam Alayli

9:50-9:55 am	Paper #4: Temporal Lobe Epilepsy Outcomes with Open-Loop Thalamic Versus Closed-Loop Hippocampal Neurostimulation Strategies	Harsh Shah
9:55 – 10:00 am	Paper #5: Overcoming Glioblastoma Heterogeneity and Plasticity through the Development of Novel CAR-T Cells for Targeting Homogeneous Antigens Identified via scRNA Sequencing	Anoop Patel
10:00–10:05 am	Discussion & Questions	
10:05–10:10 am	Paper #6: Facial Nerve Function after Incomplete Resection of Vestibular Schwannomas That Failed Initial Stereotactic Radiosurgery	Hussam Abou-Al-Shaar
10:10–10:15 am	Paper #7: Outcomes after Flow Diversion for Ruptured Aneurysms: A Single-Center Review	Si Yuan Yu
10:15–10:20 am	Paper #8: Mechanisms of Flow-Driven Venous Sinus Stenosis and Recurrence in Idiopathic Intracranial Hypertension: A Case Series and Insights into the Pathophysiology of IIH and Venous Stenting	Jason Sims
10:20–10:25 am	Paper #9: AtlasGPT as a Patient Education Tool	Ali A. Mohamed
10:25–10:30 am	Paper #10: Bone Quality at UIV+1 is a Better Predictor of Proximal Junctional Kyphosis than at UIV in Adult Spinal Deformity Surgery	Nicholas Alford
10:30–10:35 am	Discussion & Questions	
	Non-CME Tech Updates	
10:35–10:43 am	How Robotics and Navigation are Helping to Redefine Single-Position Lateral Spine Surgery <i>Supported by Globus Medical</i>	Vincent Rossi
10:43–10:51 am	Medtronic’s AiBLE Ecosystem: Leveraging Surgical Planning, Enabling Tech and Data to Advance Patient Care <i>Supported by Medtronic</i>	Mark Monaghan
10:51–10:59 am	<i>Evaluating Osteobiologics for High-Risk Patients Supported by Cerapedics</i>	
10:59-11:29 am	Refreshment Break with Exhibitors	Banyan 1 & 2

Scientific Session III Pediatric Neurosurgery

Moderator: Manish Shah		Banyan 3
11:29–11:39 am	Application of the Six Pillars of Sustainable Global Surgical Partnerships by the Neurosurgery Outreach Foundation	Philip Aldana
11:40–11:50 am	Vagus Nerve Stimulation: Future Intervention for Neurological and Other Diseases and Disorders	David Adelson
11:51–12:01 pm	Establishing a Global Neurosurgery Program: Challenges and Opportunities	James Johnston
12:02–12:12 pm	Retroviral control of GBM: Insights from Viral Etiology to Novel Therapeutic Targets	Ashish Shah
12:12–12:20 pm	Discussion	
12:20–12:25 pm	Introduction to the Hudson Lecture	Bob Wharen
12:25–12:45 pm	Hudson Lecture	Eric Nottmeier

1:00–2:00 pm **Resident, Fellow, and Young Surgeon Lunch** Seagrape 3
Faculty: Stephen Pirris, MD
Supported by Greenlight Medical & Medtronic

6:00–7:30 pm **Welcome Reception** Banyan 1 & 2

FRIDAY, FEBRUARY 7

7:00–7:30 am **Registration; Attendee & Exhibitor Breakfast** Banyan 1 & 2

Scientific Session IV The Business of Neurosurgery Non-CME

Moderator: Stephen Pirris Banyan 3

7:30 am–7:35 am Announcements

7:35–8:05 am **The Business of Neurosurgery Roundtable Discussion**

Moderators: Stephen Pirris & Charlotte Pineda

*Topics: Inflation, Physician Compensation, Reimbursement Rates,
 Long Term Viability of Private Practice, Hospital vs. Independent Practice*

Panel: Jay Howington, Mel Field, Bridger Cox, Matt Tormenti

Non-CME Tech Updates

8:05–8:13 am Early Results with Catalyst, a Novel Nanosynthetic Bone Graft Nauman Chaudhry
Supported by OssDsign

8:13–8:21 am Durasis: The Future of Dural Grafts Peter E. Fecci
Supported by Nexsis Biosciences

8:21–8:29 am Non-CME Technology Update
Supported by Stryker

8:30–8:40 am Introduction to Presidential Address Eric Nottmeier

8:40–9:10 am **Presidential Address** **Stephen Pirris**

9:10–9:40 am **Refreshment Break with Exhibitors** Banyan 1 & 2

Scientific Session V Functional

Moderator: **Josh Dowling** Banyan 3

9:40–9:48 am Ultrahigh Field Imaging in Stereotactic and Functional neurosurgery Sanjeet Grewal

9:49–9:57 am Reframing Stereotactic Neurosurgery with Robotics Jamie Toms

9:58–10:07 am The Role of Stereotactic Radiosurgery in the Treatment of Atypical Facial Pain Chris Diebert

10:08–10:14 am Discussion

10:15–10:45 am	Abstracts & Discussion	
10:15–10:18 am	<i>Paper #11: Repair Cell Therapy for Parkinson's Disease: Clinical Trial Results with Histopathology and Spatial Transcriptomics from Post-mortem Analysis</i>	Craig van Horne
10:18–10:21 am	<i>Paper #12: Navigating Delivery and Anesthesia in Pregnant Patients with Chiari Malformation</i>	Samantha Schimmel
10:21–10:24 am	<i>Paper #13: Patch-Based Closure Outcomes After Open Prenatal Repair of Myelomeningocele: A Single-Institutional Case Series</i>	Bethany J. Andrews
10:24–10:27 am	<i>Paper #14: Outcomes of a Modern Treatment Approach: Endoscopic Endonasal and Transmaxillary Resection for Advanced Juvenile Nasopharyngeal Angiofibroma</i>	Ali Alattar
10:27–10:30 am	Paper #15: McCravey Basic Science Award Winner: Ketoconazole Mitigates tGLI1-mediated Resistance to CDK4/6 Inhibitors in Glioblastoma	Ankush Chandra
10:30–10:33 am	<i>Paper #16: Multi-omic Profiling of Epigenetic Heterogeneity in Glioblastoma at Single-Cell Resolution Using mscCUT&TAG</i>	Andrew Hardigan
10:33–10:36 am	<i>Paper #17: A Novel MHC-Independent Mechanism of Tumor Cell Killing by CD8+ T Cells</i>	Peter E. Fecci
10:36–10:39 am	<i>Paper #18: Combination Laser Interstitial Thermal Therapy and Immunotherapy Enhances Survival in Murine Glioma</i>	Aden P. Haskell-Mendoza
10:39–10:42 am	<i>Paper #19: Enhancing the Migratory Potential of Adoptively Transferred Lymphocytes in Glioma</i>	Kirit Singh
10:42–10:45 am	<i>Paper #20: Genomic Analysis of High-Grade Canine Glioma Reveals Similarities to the Pan-Cancer Signature of Human Epithelial-to-Mesenchymal Transition</i>	David M. Brockington
10:45–11:00 am	Refreshment Break with Exhibitors	Banyan 1 & 2

Scientific Session VI Cranial/Tumor

Moderator: Rich Byrne		Banyan 3
11:00–11:09 am	Functional Precision Medicine for Brain Tumors	Analiz Rodriguez
11:10–11:19 am	The Frontal Sinus and Other Approaches to the Anterior Fossa	Michael Chicoine
11:20–11:29 am	Emerging Role of Focused Ultrasound in Brain Tumors	Dominique Higgins
11:30–11:39 am	iMRI for Eloquent Gliomas in Adults: An Argument Against Awake Craniotomy	Madison Michael
11:40–11:49 am	Discussion/Q&A	
11:50–11:59 am	Introduction to Ned Downing Lecture	Stephen Pirris/Spiros Blackburn
12:00 – 12:20 pm	Ned Downing Lecture	William “Bill” McArthur
12:20–12:40 pm	Q & A with Bill McArthur	
12:40 – 12:44 pm	Remembering Mark Shaffrey	David Okonkwo
12:45–12:45 pm	Washington Update	Charlotte Pineda & Katie Orrico

12:55–1:00 pm	Business Meeting <i>All members are required to attend the SNS Annual Business Meeting</i>	Exec Council
1:00 pm	Shuttle to Golf Tournament <i>Advance signup required. Shuttle departure near Café San Marco, north of main lobby</i>	San Marco Entrance
6:30–9:30 pm	Family Night <i>Exit the Lanai Tower from the meeting space and head left on the short path to the beach</i>	Lanai Beach

SATURDAY, FEBRUARY 8

7:00–7:30 am	Registration; Attendee & Exhibitor Breakfast	Banyan 1 & 2
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Scientific Session VII – Vascular

Moderator: Dennis Rivet		Banyan 3
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7:30 am – 7:32 am	Announcements	
7:33–7:43 am	Microsurgical Creativity in Dealing with Complex Aneurysms: An Essential Skill in 2025 and Beyond	Jacques Morcos
7:44–7:54 am	MMA Embolization: Is It the New Standard of Care?	Jonathan Grossberg
7:55–8:05 am	Revascularization Surgery for Cerebral Hypoperfusion: An Update for Clinical Practice	Andrew Bauer
8:06–8:16 am	Training in Cerebrovascular Surgery: Where Do We Go from Here?	Brian Howard
8:16–8:22 am	Discussion/Q&A	
8:22 am–8:52 am	Vascular Cases and Discussion <i>Moderator: Spiros Blackburn</i> <i>Panel: Ramesh Grandhi, Dennis Rivet, Jacques Morcos, Ricardo Hanel</i>	
8:52–9:02 am	An Update on Glioma Classification: Distilling it Down to What You Need to Know	Peter Fecci
9:03–9:13 am	Spinal Disorders in Elite Athletes	David Okonkwo
9:14–9:24 am	Brain Computer Interfaces: From SciFi to Concept to Implementation	Nitin Tandon
9:25–9:30 am	Discussion	
9:30–9:55 am	Refreshment Break with Exhibitors	Banyan 1 & 2

Scientific Session VIII – Groundbreakers and Gamechangers

Moderators: Boyle Cheng + Selby Chen		Banyan 3
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9:55–10:03 am	Introduction to Distinguished Practitioner Lecture	Dom Coric
10:04–10:34 am	Distinguished Practitioner Lecture	John A. Wilson

10:35–11:05 am	Free Abstracts	
10:35–10:38 am	Paper #21: Time Efficiency and Radiation Reduction in LLIF Procedures using X-ray Tracking: A Comparative Study of 100 Consecutive Levels	Ashutosh A. Pradhan
10:38–10:41 am	Paper #22: From Fumes to Failure: The Impact of Smoking History on Hardware Failure and Pulmonary Complications Following Spinal Deformity Surgery	Emma C. Sargent
10:41–10:44 am	Paper #23: Impact of Minimally Invasive Lateral vs. Open Posterior Spinal Surgery on Spinopelvic Parameters in Adult Spinal Deformity	Bryan A. Clampitt
10:44–10:47 am	Paper #24: Risk Factors for Postoperative Complications in Single and Multi-level Anterior Lumbar Interbody Fusion	Adham M. Khalafallah
10:47–10:50 am	Paper #25: Elevated Intracranial pCO ₂ is associated with Reduced Ischemic Stroke Severity and Increased Early Expression of Angiogenic Factors and Markers of Vessel Integrity	David Dornbos
10:50–10:53 am	Paper #26: Role of Lipoxygenase in SAH in Mice	Hussein Zeineddine
10:53–10:56 am	Paper #27: Analysis of Flow in Brain Arteriovenous Malformations using Quantitative Digital Subtraction Angiography	Tzak S. Lau
10:56–10:59 am	Paper #28: SAHVER Subarachnoid Hemorrhage Volumetric Expediting Resolution	Saif Salman
10:59–11:02 am	Paper #29: The Extended Endoscopic Endonasal Approach for the Treatment of Intracranial Aneurysms: Indications, Technical Nuances, And Results Gleaned from Two Decades of Clinical Experience	Paul Gardner
11:02–11:05 am	Paper #30: McCravey Clinical Science Award Winner: Vasospasm following Endoscopic Transsphenoidal Surgery: A Single-Institution Cohort Analysis and Development of a Treatment Algorithm Based on Comparative Case Review and Expert Consensus	Ashlie M. Maldonado-Pérez
11:05–11:09 am	Discussion	
	Groundbreakers and Changers	
11:10–11:20 am	The Evolution of Radiosurgery in the Management of Meningiomas	Dade Lunsford
11:21–11:31 am	Endovascular	Elad Levy
11:32–11:42 am	Endoscopic Skull Base Surgery: Shifting Paradigms	Paul Gardner
11:43–11:50 am	Discussion/Q & A	
11:50 am–11:53 am	Introduction to the Semmes Lecture	David Okonkwo
11:54 am–12:28 pm	Semmes Lecture	Christopher Shaffrey
12:28–12:30 pm	Raffle Drawing and Final Announcements	
12:30 pm	75th Annual Meeting Adjourns	
6:30–10:00 pm	Final Banquet 18+ Black Tie Optional RSVP Required	Banyan 3
	6:30–7:00 pm Cocktail Reception	
	7:00–10:00 pm Dinner & Dancing	