Sunday, January 30th
3:00 pm – 4:00 pm  Registration  Ocean Ballroom Foyer
5:00 pm - 7:00 pm  Welcome Reception  Ocean Foyer
Guest Introductions given during the Reception at 6:00 pm

Monday, January 31st
7:00 am – 12:00 pm  Registration  Ocean Ballroom Foyer
7:00 am – 9:00 am  Breakfast for Registered Physicians and Registered Guests  Noe Restaurant
8:00 am – 8:15 am  Welcoming Remarks  John Ragheb, MD

8:15 am – 9:40 am  Special Session I: Craniofacial Point-Counterpoint  Ocean Ballroom

Posterior Distraction for Chiari Malformation, Really?
Moderator: Caitlin Hoffman, MD

8:15 am – 8:25 am  Point  Julie Chen, MD
8:26 am – 8:36 am  Counterpoint  Dale Swift, MD
8:36 am – 8:56 am  Q&A

The Endgame: Endoscopic versus Open for Sagittal and Metopic Synostosis
Moderator: Peter Sun, MD

8:57 am – 9:07 am  Point  Nate Selden, MD
9:08 am – 9:18 am  Counterpoint  Suresh Magge, MD
9:19 am – 9:39 am  Q&A
9:40 am – 10:00 am  Beverage Break  Ocean Ballroom Foyer

ASPN thanks the Scientific Planning Committee for their contribution to this program: Matthew Adamo, Kurtis Auguste, Lissa Baird, Chris Bonfield, Julie Chen, Dave Daniels, Holly Gilmer, Stephanie Green, Mari Groves, Caitlin Hoffman, Steve Hwang, Kelly Mahaney, Neena Marupudi, Jonathan Pindrik and Eric Thompson.
**Craniofacial Counterpoint: Craniofacial Surgery: Art or Science?**
Moderator: Kurtis Auguste, MD

10:01 am – 10:11 am  
**Point**  
Caitlin Hoffman, MD

10:12 am – 10:22 am  
**Counterpoint**  
John Kestle, MD

10:23 am – 10:43 am  
**Q&A**

**10:44 am – 12:00 pm  Special Session II: Top Craniofacial Abstracts**
Moderator: Holly Gilmer, MD

10:44 am – 10:52 am  
**Abstract #1: Genetic Impact on Neurodevelopment in Non-syndromic Craniosynostosis**  
Kristopher Kahle, MD

10:53 am – 11:01 am  
**Abstract #2: Computer-assisted Virtual Surgical Planning and Robot Guided Laser Osteotomy for Front Orbital Advancement – A Full Digital Workflow**  
Raphael Guzman, MD

11:02 am – 11:10 am  
**Abstract #3: How Low Should We Go? Safety and Craniometric Impact of the Low Occipital Osteotomy in Posterior Vault Remodeling**  
Gregory Heuer, MD

11:11 am – 11:19 am  
**Abstract #4: A Comparison of Neurodevelopmental Outcomes in Patients with Who Were Treated with CVR vs Endoscopic Repair for Sagittal Craniosynostosis**  
Suresh Magge, MD

11:20 am – 11:28 am  
**Abstract #5: Comparative Analysis of 2D and 3D Metrics for Evaluation of Postoperative Outcomes following Endoscopic Suturectomy for Sagittal Craniosynostosis**  
Caitlin Hoffman, MD

11:29 am – 12:00 pm  
**Q&A and adjourn for the day**

ASPN thanks the Scientific Planning Committee for their contribution to this program: Matthew Adamo, Kurtis Auguste, Lissa Baird, Chris Bonfield, Julie Chen, Dave Daniels, Holly Gilmer, Stephanie Green, Mari Groves, Caitlin Hoffman, Steve Hwang, Kelly Mahaney, Neena Marupudi, Jonathan Pindrik and Eric Thompson.
Tuesday, February 1st

7:00 am – 12:00 pm  Registration  
Ocean Ballroom Foyer
7:00 am – 9:00 am  Breakfast for Registered Physicians and Registered Guests  
Noe Restaurant

8:00 am – 10:12 am  General Session III: Guest Abstracts  
Moderator: Mari Groves, MD
Ocean Ballroom

8:00 am – 8:08 am  Abstract #6: Hemoglobin Disrupts Microglial IGF-1 Production in the Developing Brain  
Brandon Miller, MD

8:09 am – 8:17 am  Abstract #7: Younger Age at Spinal Cord Detethering is Potentially Associated with a Reduced Risk of Curve Progression in Children with Early Onset Scoliosis  
Rajiv Iyer, MD

8:18 am – 8:26 am  Abstract #8: Clinical Features of Patients with Idiopathic Scoliosis and Tethered Cord to Prompt Consideration of Earlier MRI  
Christina Sayama, MD

8:27 am – 8:35 am  Abstract #9: Diagnosis of Single-Suture Craniosynostosis with Cranial Ultrasound: A Single Institution Experience  
David Hersh, MD

8:36 am – 8:44 am  Abstract #10: Risks Assessment and Added Value of Cervical Spine MRI in Evaluating Pediatric Cervical Spine Injuries in a Level 1 Trauma Center  
Joaquin Hidalgo, MD

8:45 am – 9:05 am  Q&A

9:06 am – 9:14 am  Abstract #11: Relationship Between Neurosurgical Experience and Complications in Pediatric Brain Tumor Surgery  
David Garcia, MD

9:15 am – 9:23 am  Abstract #12: A Case of a Stereotactic Magnet and the Need to Think Outside the Box  
Catherine McClung-Smith, MD

David Hong, MD

9:33 am – 9:41 am  Abstract #14: Technical Considerations in Pediatric Brain Tumor Biopsy with Flexible Endoscopy  
Carolyn Quinsey, MD

ASPN thanks the Scientific Planning Committee for their contribution to this program: Matthew Adamo, Kurtis Auguste, Lissa Baird, Chris Bonfield, Julie Chen, Dave Daniels, Holly Gilmer, Stephanie Green, Mari Groves, Caitlin Hoffman, Steve Hwang, Kelly Mahaney, Neena Marupudi, Jonathan Pindrik and Eric Thompson.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:42 am – 9:50 am</td>
<td>Abstract #15: Hypothermia in Cranial Vault Reconstruction Patients</td>
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<td>Katrina Ducis, MD</td>
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<td>9:51 am – 10:11 am</td>
<td>Q&amp;A</td>
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<tr>
<td>10:12 am – 10:42 am</td>
<td>Refreshment Break</td>
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<tr>
<td>10:43 am – 12:00 pm</td>
<td>General Session IV: Hoffman Lecturer (non-CME)</td>
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<tr>
<td>10:43 am – 10:48 am</td>
<td>Recollections of Dr. Harold Hoffman</td>
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<td>Mark Souweidane, MD</td>
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<td>10:49 am – 10:55 am</td>
<td>Introduction of Hoffman Lecturer</td>
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<td>John Ragheb, MD</td>
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<td>10:55 am – 11:50 am</td>
<td>Hoffman Lecturer: Storm Tactics - Leadership When it Counts. Hard Won Lessons from 40 years at Sea</td>
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<td>John Kretschmer</td>
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<td>11:50 am – 12:00 pm</td>
<td>Q&amp;A and adjourn for the day</td>
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<tr>
<td>7:00 pm</td>
<td>Past President’s Dinner (invitation only)</td>
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ASPN thanks the Scientific Planning Committee for their contribution to this program: Matthew Adamo, Kurtis Auguste, Lissa Baird, Chris Bonfield, Julie Chen, Dave Daniels, Holly Gilmer, Stephanie Green, Mari Groves, Caitlin Hoffman, Steve Hwang, Kelly Mahaney, Neena Marupudi, Jonathan Pindrik and Eric Thompson.
**Wednesday, February 2nd**

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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7:00 am – 12:00 pm</td>
<td>Registration</td>
<td>Ocean Ballroom Foyer</td>
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<td>7:00 am – 8:00 am</td>
<td>Fellowship Director’s Meeting</td>
<td>Noe Restaurant</td>
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<td>7:00 am – 9:00 am</td>
<td>Breakfast for Registered Physicians and Registered Guests</td>
<td>Noe Restaurant</td>
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<td>8:00 am – 10:12 am</td>
<td>General Session V: Guest &amp; General Abstracts</td>
<td>Ocean Ballroom</td>
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<td></td>
<td>Moderator: David Daniels, MD</td>
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<tr>
<td>8:00 am – 8:08 am</td>
<td>Abstract #16: Open Retroperitoneal Inferior Vena Cava Cannulation for Distal Ventriculoatrial Shunt Catheter Placement</td>
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<td>Michael Sawvel, MD</td>
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<td>8:09 am – 8:17 am</td>
<td>Abstract #17: Intrathecal Morphine Administration in Pediatric Patients Undergoing Selective Dorsal Rhizotomy: A Pilot Study</td>
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<td>Gwyn Hughes, MD</td>
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<td>8:18 am – 8:26 am</td>
<td>Abstract #18: I Can See Clearly Now: The Use of Augmented Reality in Pediatric Craniofacial Surgery</td>
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<td>Joanna Gernsback, MD</td>
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<td>8:27 am – 8:35 am</td>
<td>Abstract #19: Asymmetry of the Occipital Condyle-C1 Interval in Children with Atlanto-Occipital Dislocation</td>
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<td>Sudhakar Vadivelu, MD</td>
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<td>8:36 am – 8:44 am</td>
<td>Abstract #20: Current Spread from Bugbee Wire During Monopolar Cautery Application within a Ventricular Catheter. Technical Note</td>
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<td>Daniel Hansen, MD</td>
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<td>8:45 am – 9:05 am</td>
<td>Q&amp;A</td>
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<td>9:06 am – 9:14 am</td>
<td>Abstract #21: Preclinical Treatment of Existing Posthemorrhagic Hydrocephalus with a Novel Drug Cocktail</td>
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<td>Shenandoah Robinson, MD</td>
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<td>Francesco Mangano, MD</td>
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<td>Gordon McComb, MD</td>
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   Samuel McClugage, MD

9:42 am – 9:50 am  Abstract #25: Reconsidering Hydrocephalus in the Setting of Achondroplasia
   Dale Swift, MD

9:51 am – 10:11 am  Q&A

**10:12 am – 10:46 am**  General Session VI: Research Network Updates
   **Moderator: Jonathan Pindrik, MD**

10:12 am – 10:17 am  HCRN
   John Kestle, MD

10:18 am – 10:23 am  Park-Reeves
   Dave Limbrick, MD

10:24 am – 10:29 am  Pediatric Craniocervical Society/Pediatric Spine Study Group
   Doug Brockmeyer, MD

10:30 am- 10:35 am  CPRN
   Rob Bollo, MD

10:36 am – 10:46 am  Q&A

10:47 am – 11:07 am  Refreshment Break

**11:08 am – 11:49 am**  General Session VII: Presidential Address

11:08 am – 11:38 am  Presidential Address
   John Ragheb, MD

11:39 am – 11:49 am  The Parallels of the Operating Room and Preparation for Ocean Sailing
   Paul Kanev, MD

**11:50 am – 12:15 pm**  Annual Business Meeting *(Members only)*
Thursday, February 3rd

7:00 am – 12:30 pm  Registration  
7:00 am – 9:00 am  Breakfast for Registered Physicians and Registered Guests  

8:00 am – 9:48 am  General Session VIII: General Abstracts  
Moderator: Lissa Baird, MD  

8:00 am – 8:08 am  Abstract #26: A Novel Peptide Vaccine Directed to CMV PP65 for Treatment of Recurrent Malignant Glioma and Medulloblastoma in Children and Young Adults: Preliminary Results of a Phase I Trial  
Eric Thompson, MD  

8:09 am – 8:17 am  Abstract #27: A Small Molecule RELA Nuclear Localization Inhibitor Increases Survival in ZFTA-RELA Fusion Ependymoma  
Joshua Breunig, MD  

8:18 am – 8:26 am  Abstract #28: Three-Dimensional Organoid Culture Unveils Resistance to Clinical Therapies in Adult and Pediatric Glioblastoma  
Violette Recinos, MD  

8:27 am – 8:35 am  Abstract #29: Toward Understanding the Relationship Between Ventriculoperitoneal Shunt Placement and Hearing Loss  
Daniel Guillaume, MD  

8:36 am – 8:44 am  Abstract #30: Treatment of Cervical Stenosis in Infants and Toddlers with Skeletal Dysplasia  
Jeffrey Campbell, MD  

8:45 am – 9:05 am  Q&A  

9:06 am – 9:14 am  Abstract #31: Surgical Revascularization Decreases Stroke and TIA Risk in Children with Sickle Cell Disease and Moyamoya Syndrome: Results of the Stroke in Sickle Cell Revascularization Study (SiSCRS)  
Philipp Aldana, MD  

9:15 am – 9:23 am  Abstract #32: The Use of Responsive Neuro Stimulation (RNS) In Adult and Pediatric Patients with Diffuse and Non-Localizable Seizure Foci/Networks  
David Adelson, MD  

9:24 am – 9:32 am  Abstract #33: Responsive Neurostimulation in Pediatric Drug-Resistant Epilepsy: Initial Center  
Robert Bollo, MD  

ASPN thanks the Scientific Planning Committee for their contribution to this program: Matthew Adamo, Kurtis Auguste, Lissa Baird, Chris Bonfield, Julie Chen, Dave Daniels, Holly Gilmer, Stephanie Green, Mari Groves, Caitlin Hoffman, Steve Hwang, Kelly Mahaney, Neena Marupudi, Jonathan Pindrik and Eric Thompson.
9:33 am – 9:48 am  Q&A

9:49 am – 10:09 am  General Session IX: ASPN History
Marion Walker, MD

10:10 am – 10:30 am  Refreshment Break  Ocean Ballroom Foyer

10:31 am – 11:36 am  General Session X: General Abstracts
Moderator: Julie Chen, MD

10:31 am – 10:39 am  Abstract #34: Responsive Neural Stimulation of Bilateral Centromedian (CM) Nucleus of the Thalamus in Drug Resistant Pediatric Epilepsy: Preliminary Experience at UCLA Mattel Children’s Hospital
Aria Fallah, MD

10:40 am – 10:48 am  Abstract #35: Minimally Invasive Interlaminar Approach for Infra-conus Selective Dorsal Rhizotomy
Neena Marupudi, MD

10:49 am – 10:57 am Abstract #36: Human Brain Growth: Avoiding the Mismeasure of Man
Steven Schiff, MD

10:58 am – 11:06 am  Abstract #37: Cerebrospinal Flow with Noninvasive Fluorescent Cap-based Transcranial Optical Tomography (fCTOT)
Manish Shah, MD

11:07 am – 11:15 am  Abstract #38: Invasive and Non-invasive Brain Tissue Oxygen Monitoring in Pediatric Severe Traumatic Brain Injury
Shih-Shan Chen, MD

11:16 am – 11:36 am  Q&A

11:37 am – 12:55 pm  General Session XI: General Abstracts
Moderator: Neena Marupudi, MD

11:37 am - 11:45 am  Abstract#39: Fetoscopic Closure of Myelomeningocele: Surgical Technique and Case Series
Joseph Petronio, MD

11:46 am – 11:54 am Abstract #40: Intra-Uterine Closure of Myelomeningocele Defects with Primary Versus Bipedicle Fasciocutaneous Flaps: A Single Center Post-Moms Retrospective Cohort Study
Jay Wellons, MD

11:55 am – 12:03 pm  Abstract #41: Superior Long-Term Appearance of Strip Craniectomy Compared to Cranial Vault Reconstruction in Metopic Craniosynostosis
Peter Sun, MD

ASPN thanks the Scientific Planning Committee for their contribution to this program: Matthew Adamo, Kurtis Auguste, Lissa Baird, Chris Bonfield, Julie Chen, Dave Daniels, Holly Gilmer, Stephanie Green, Mari Groves, Caitlin Hoffman, Steve Hwang, Kelly Mahaney, Neena Marupudi, Jonathan Pindrik and Eric Thompson.
12:04 pm – 12:12 pm Abstract #42: Addition by Reduction: The Addition of Wedge Osteotomies in Sagittal Strip Craniectomies May Reduce Helmeting Times and Improve Outcomes
Christian Kaufman, MD

12:13 pm – 12:21 pm Abstract #43: Pediatric High-Grade Gliomas
David Daniels, MD

12:22 pm – 12:42 pm Q&A

12:43 pm – 12:55 pm General Session XII: Washington Update
Katie Orrico

6:30 pm – 9:30 pm ASPN Dinner

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Friday, February 4th

7:00 am – 9:00 am  Breakfast for Registered Physicians and Registered Guests  
Noe Restaurant

8:00 am – 9:31 am  General Session XIII: General Abstracts (Lightening Round)  
Ocean Ballroom
Moderator: Eric Thompson, MD

8:00 am – 8:04 am  Abstract #44: Use of Bipolar Release of the Sternocleidomastoid to Treat Refractory Torticollis in Patients with Normal Skeletal Anatomy and Patients with Congenital Vertebral Body Anomalies
David Bauer, MD

8:05 am – 8:09 am  Abstract #45: Addressing Pediatric Neuro-Oncology Disparities in the US-Mexico Border Region: A Cross-Border Initiative between San Diego, California and Tijuana, Mexico
Michael Levy, MD

8:10 am – 8:14 am  Abstract #46: TBD

8:15 am – 8:19 am  Abstract #47: Tumors Involving the Ventral Posterior Fossa: Surgical Strategies
William Gump, MD

8:20 am – 8:24 am  Abstract #48: CDC Head Circumference Charts Not Representative of Racial-Ethnic Groups: A Study of New Mexican Native American Children
Heather Spader, MD

8:25 am – 8:45 am  Q&A

8:46 am – 8:50 am  Abstract #49: A Standardized, Evidence Based Institutional Approach to Simple Tethered Cord Management
Thomas Moriarty, MD

8:51 am – 8:55 am  Abstract #50: High Social Vulnerability Affects Survival of Pediatric Patients with Abusive Head Trauma: Comparison During COVID-19
Howard Weiner, MD

8:56 am – 9:00 am  Abstract #51: The Use of In-Patient Concussion Consultation in a Cohort of Pediatric Patients to Improve Symptom Score and Associated Health Outcomes: A Proof-of-Concept Study
Eylem Ocal, MD

9:01 am – 9:05 am  Abstract #52: TBD

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9:06 am – 9:10 am Abstract #53: Management of Brain Tumor Patients with Medically Refractory Epilepsy
James Baumgartner, MD

9:11 am – 9:31 am Q&A

9:32 am – 10:17 am General Session XIV: General Abstracts (Lightening Round)
Moderator: Kelly Mahaney, MD

9:32 am – 9:36 am Abstract #54: Investigating Outcomes following Endoscopic Third Ventriculostomy (ETV) with or without Choroid Plexus Cauterization (CPC) in Patients with Aqueductal Stenosis (AS) and AS plus other Genetic Disorders and Cerebral Malformations (AS+)
Jonathan Pindrik, MD

9:37 am – 9:41 am Abstract #55: Transforming Perioperative Team Collaboration using a Mobile Platform
David Harter, MD

9:42 am – 9:46 am Abstract #56: QuickBrain MRI in a Tertiary Pediatric Emergency Department: A Retrospective Study of Use Patterns and Accuracy
Nathan Selden, MD

9:47 am – 9:51 am Abstract #57: Intracerebral Hemorrhage Occurring Years After Revascularization Surgery in Pediatric Moyamoya Patients
Michael Scott, MD

9:52 am – 9:56 am Abstract #58: The Neurosurgical Management of Severe Hemophilia A and Moyamoya (SHAM): Challenges and Strategies
Al Cohen, MD

9:57 am – 10:17 am Q&A

10:18 am – 10:30 am General Session XV: Closing Remarks & Adjournment
John Ragheb, MD

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