Leadership at its finest.

Le Bonheur Children’s Hospital is proud to recognize our own, Dr. Frederick Boop, for completing his term as president of the American Association of Neurological Surgeons. Congratulations on this impressive achievement, and thank you for your continued work to make a difference in the lives of children everywhere.

Le Bonheur
Children’s Hospital

Where Every Child Matters
lebonheur.org

Frederick Boop, M.D.
Neurosurgeon, Pediatric Neurosurgery
Co-Director, Neuroscience Institute and Medical Director of Neuroscience Institute, Le Bonheur Children’s Hospital
Professor and Chairman, Department of Neurosurgery, The University of Tennessee Health Science Center
Chief of the Division of Pediatric Neurosurgery, St. Jude Children’s Research Hospital

The Face of Pediatric Neurosurgery

Scan here to access full meeting app or visit http://2016peds.pedsneurosurgery.org
#PedsNeuro2016
## Program At-A-Glance

### MONDAY, DEC. 5

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 a.m.-7 p.m.</td>
<td>Registration</td>
<td>Floridian Ballroom West Foyer</td>
</tr>
<tr>
<td>7 a.m.-6 p.m.</td>
<td>Speaker Ready Room</td>
<td>Indian River Room – Lower Level</td>
</tr>
<tr>
<td>8 a.m.-4:45 p.m.</td>
<td>Advanced Practice Provider (APP) Seminar</td>
<td>Bonnet Creek Ballroom II &amp; III</td>
</tr>
<tr>
<td>12-4 p.m.</td>
<td>Pediatric Section Executive Committee Meeting</td>
<td>Jackson Room – Lower Level</td>
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<tr>
<td>4-4:30 p.m.</td>
<td>Pediatric Section Education Committee Meeting</td>
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<tr>
<td>6-7:30 p.m.</td>
<td>Opening Reception</td>
<td>Pavilion</td>
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### TUESDAY, DEC. 6

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<tr>
<td>7 a.m.-4 p.m.</td>
<td>Speaker Ready Room</td>
<td>Indian River Room – Lower Level</td>
</tr>
<tr>
<td>7:15-8 a.m.</td>
<td>Continental Breakfast in the Exhibit Hall</td>
<td>Floridian Ballroom G-L</td>
</tr>
<tr>
<td></td>
<td>Topic Discussion Table: Residents and Medical Students Meet the Leadership</td>
<td>The Learning Center</td>
</tr>
<tr>
<td>7:15 a.m.-3:30 p.m.</td>
<td>Exhibit Hall Open</td>
<td>Floridian Ballroom G-L</td>
</tr>
<tr>
<td>8-9:50 a.m.</td>
<td>Scientific Session I: Developmental and Functional Abstracts</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>9:51-10:14 a.m.</td>
<td>2016 Franc D. Ingraham Award for Distinguished Service and Achievement Thomas G. Luerssen, MD, FAANS</td>
<td>Floridian Ballroom A-F</td>
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<tr>
<td>10:15-10:45 a.m.</td>
<td>Beverage Break in the Exhibit Hall Honoring Thomas G. Luerssen, MD, FAANS</td>
<td>Floridian Ballroom G-L</td>
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<tr>
<td>10:46-11:20 a.m.</td>
<td>Scientific Session II: Functional II Abstracts</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>11:21-11:59 a.m.</td>
<td>Raimondi Lecture - Jim MacPhee</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>12–1 p.m.</td>
<td>Lunch in the Exhibit Hall Conversation With Jim MacPhee</td>
<td>Floridian Ballroom G-L</td>
</tr>
<tr>
<td>1:01-2:10 p.m.</td>
<td>Scientific Session III: Neoplasm Abstracts</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>2:11-2:44 p.m.</td>
<td>Clinical Symposium I: New Trends in Molecular Tumor Typing</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>2:45-3:15 p.m.</td>
<td>Beverage Break in the Exhibit Hall Conversation With Vijay Ramaswamy, MD and Amy Smith, MD</td>
<td>Floridian Ballroom G-L</td>
</tr>
<tr>
<td>3:16-3:50 p.m.</td>
<td>Scientific Session IV: Hydrocephalus and ETV Abstracts</td>
<td>Floridian Ballroom A-F</td>
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<tr>
<td>3:51-4:29 p.m.</td>
<td>Clinical Symposium II: Topics in Hydrocephalus: A Personal Perspective</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>4:30-4:45 p.m.</td>
<td>Annual Business Meeting</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>4:46-5 p.m.</td>
<td>AAP/Section on Neurological Surgery (SONS) Business Meeting</td>
<td>Floridian Ballroom A-F</td>
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### Program At-A-Glance

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<tr>
<td>7:15-8 a.m.</td>
<td>Continental Breakfast in the Exhibit Hall Topic Discussion Table: Difficult Case Review</td>
<td>Floridian Ballroom G-L The Learning Center</td>
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<td>7:15 a.m.-5:30 p.m.</td>
<td>Exhibit Hall Open</td>
<td>Floridian Ballroom G-L</td>
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<tr>
<td>8:01-8:22 a.m.</td>
<td>2017 Meeting Preview and Section Research Abstract Awards</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>8:23-8:57 a.m.</td>
<td>Scientific Session V: Spine Abstracts</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>8:58-9:44 a.m.</td>
<td>Special Lecture Jocelyne Bloch, MD</td>
<td>Floridian Ballroom A-F</td>
</tr>
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<td>9:45-10:15 a.m.</td>
<td>Beverage Break in the Exhibit Hall</td>
<td>Floridian Ballroom G-L</td>
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<tr>
<td>10:16-11:25 a.m.</td>
<td>Scientific Session VI: Spine II and Trauma Abstracts</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>11:26-11:59 a.m.</td>
<td>Clinical Symposium III: Stem Cell and Pediatric Neurosurgery</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>12:1 p.m.</td>
<td>Lunch in the Exhibit Hall Conversation With Jocelyne Bloch, MD, and Cesario V. Borlongan, PhD</td>
<td>Floridian Ballroom G-L The Learning Center</td>
</tr>
<tr>
<td>1:01-1:31 p.m.</td>
<td>Poster Board Viewing Poster Authors Q&amp;A</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>1:32-2:06 p.m.</td>
<td>Scientific Session VII: Socioeconomic Abstracts</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>2:07-2:48 p.m.</td>
<td>AAP/Section on Neurological Surgery (SONS) Lecture James R. Doty, MD, FAANS</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>2:49-3:19 p.m.</td>
<td>Beverage Break in the Exhibit Hall First Prize Drawing</td>
<td>Floridian Ballroom G-L</td>
</tr>
<tr>
<td>3:20-4:29 p.m.</td>
<td>Scientific Session VIII: Trauma II and Technical Advances Abstracts</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>4:30-5:30 p.m.</td>
<td>Wine &amp; Cheese Reception</td>
<td>Floridian Ballroom G-L</td>
</tr>
<tr>
<td>6-9 p.m.</td>
<td>Codman Satellite Symposium: Monitoring and Managing Intracranial Pressure in Complex Pediatric Caes</td>
<td>Bonnet Creek Ballroom III</td>
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### All dates and times are subject to change.

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<tr>
<td>7:15-10:45 a.m.</td>
<td>Exhibit Hall Open</td>
<td>Floridian Ballroom G-L</td>
</tr>
<tr>
<td>8:01-8:38 a.m.</td>
<td>Poster Awards Announced Scientific Session IX: Socioeconomic II/Technical Advances II and Vascular Abstracts</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>8:39-9:24 a.m.</td>
<td>Special Lecture Conrad E. Jobanson, PhD</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>10-10:30 a.m.</td>
<td>Beverage Break in the Exhibit Hall Second Prize Drawing</td>
<td>Floridian Ballroom G-L</td>
</tr>
<tr>
<td>10:31-11:01 a.m.</td>
<td>Clinical Symposium IV: Activity Recommendations for Children With Intracranial Imaging Findings</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>11:02-11:36 a.m.</td>
<td>Scientific Session X: Vascular II and Miscellaneous Abstracts</td>
<td>Floridian Ballroom A-F</td>
</tr>
<tr>
<td>11:37-11:40 a.m.</td>
<td>Hydrocephalus, Shulman and AAP/Section on Neurological Surgery (SONS) Awards Announced</td>
<td>Floridian Ballroom A-F</td>
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Announcements

Advanced Practice Provider (APP) Seminar

Monday, Dec. 5

7 a.m.-7 p.m.
Registration
Location: Floridian Ballroom West Foyer

7 a.m.-6 p.m.
Speaker Ready Room
Location: Indian River Room (Lower Level)

8-8:05 a.m.
Welcome and Introduction
Location: Bonnet Creek Ballroom II & III

8:06-8:36 a.m.
Physical Exam of the Newborn and Child, Coma Exam, Brain Death Exam
Jasna Kojic, MD

8:37-9:07 a.m.
Ophthalmology Findings in Pediatric Neurosurgery Patients
Louis Blumenfeld, MD

9:08-9:38 a.m.
Management of Severe Brain Injury: When to Monitor, Guidelines, ICP
Greg Olavarria, MD, FAANS

9:39-10:09 a.m.
EVD/ICP Insertion, Nuances and Troubleshooting
Greg Olavarria, MD, FAANS

10:10-10:30 a.m.
Beverage Break

10:31-11:01 a.m.
Post-operative Pain Management Strategies
Jaroslava Teet, PA-C

11:02-11:32 a.m.
Neuroradiology Review, Common Findings: Trauma, NAT, Vascular, Tumors
Abhijit Patil, MD

11:33 a.m.-12:33 p.m.
Lunch and Networking
Location: Bonnet Creek Ballroom I

12:34-1:04 p.m.
Management of the Spina Bifida Patient: Early, Maintenance Issues, Transition
Eryn Lawson, PA-C

1:05-1:35 p.m.
Shunts: Decision-making, Troubleshooting, Shunt Programming/Tapping
Ashley Rogers, PA-C

1:36-2:06 p.m.
Management of Spasticity in Children
Bruce B. Storrs, MD, FAANS(L)

2:07-2:27 p.m.
APP Forum: An Open Dialogue With Senior APPs
Claudia Garcia, MSN, ARNP, PNP-BC, CNRN
Eryn Lawson, PA-C
Jaroslava Teet, PA-C
Carrie Young, CPNP

2:28-2:58 p.m.
Beverage Break

2:59-4:40 p.m.
Hands-on Stations
• EVD Insertion/Troubleshooting
• Shunt Tap/Shunt Reprogram
• ICP Monitor Insertion/Troubleshooting
• Dural Suture/Craniotomy

4:41-4:45 p.m.
Closing Remarks and Evaluations

Join the Conversation

During breakfast in the exhibit hall on Tuesday and Wednesday, there will be a Topic Discussion Table to give attendees a chance to dialogue with senior neurosurgeons on difficult case reviews and other issues impacting the pediatric field.

In addition, key presenters will be available at The Learning Center, located in the exhibit hall, following their lectures for further discussion. Don’t miss these opportunities to hear from the experts and ask questions.

Poster Presentations

Poster presenters will be available at their assigned poster board to answer questions on Wednesday, immediately following the lunch break from 1-1:30 p.m. View posters and visit with presenters in the back of the general session room and in the ballroom foyer. Posters will be on display throughout the meeting for attendees to view. All poster abstracts can be viewed by attendees through the Meeting App.

Please Note: All abstracts are published as submitted by their authors.

Photography and Capture

Video capture, live streaming video and/or photography may be taken at the AANS/CNS Section on Pediatric Neurological Surgery Annual Meeting. By registering/attending the meeting, you grant the AANS the right to use captured images, videos and biographies in print, electronic or other media. All postings become the property of the AANS and may be displayed, distributed or used by the AANS for any purpose. Attendees are prohibited from live streaming, photography and video capture without the consent of the AANS. The AANS is not responsible for unauthorized media capture performed by meeting attendees.

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### Annual Meeting Program Schedule

#### Monday, Dec. 5

- **7 a.m.-7 p.m.**
  - **Registration**
    - Location: Floridian Ballroom West Foyer
- **7 a.m.-6 p.m.**
  - **Speaker Ready Room**
    - Location: Indian River Room (Lower Level)
- **11:30 a.m.**
  - **Executive Committee Lunch**
    - Location: Jackson Room (Lower Level)
- **12-4 p.m.**
  - **Executive Committee Meeting**
    - Location: Jackson Room (Lower Level)
- **4-4:30 p.m.**
  - **Education Committee Meeting**
    - Location: Jackson Room (Lower Level)

#### Tuesday, Dec. 6

- **6 a.m.-5 p.m.**
  - **Registration**
    - Location: Floridian Ballroom West Foyer
- **7 a.m.-4 p.m.**
  - **Speaker Ready Room**
    - Location: Indian River Room (Lower Level)

### Group 1

8:01-8:05 a.m.
- **Welcome and Opening Remarks**
  - **Location:** Floridian Ballroom A-F
  - **Signifies Award Candidate**

8:06-9:50 a.m.
- **Scientific Session I: Developmental/Functional**
  - **Moderators**
    - Eric M. Jackson, MD, FAANS
    - David D. Limbrick Jr., MD, PhD, FAANS
  - **8:06 a.m.**
    - **H1. How applicable are MOMS Trial results? A comparison of a single-institution cohort to the results from the randomized trial**
      - Nicholas Laskay
  - **8:20 a.m.**
    - **H3. The impact of mode of delivery on infant neurologic outcomes in myelomeningocele**
      - Stephanie Greene, MD, FAANS
  - **8:34 a.m.**
    - **H4. Hydrocephalus in patients with myelomeningocele in the National Spina Bifida Patient Registry (NSBPR)**
      - Irene Kim, MD
  - **9:02 a.m.**
    - **Group 1 Q&A**

### Group 2

8:41-8:47 a.m.
- **5. Outcomes in Children Undergoing Surgical Intervention for Chiari I Malformation With Syringomyelia: A Prospective, Multi-center, Pilot Study**
  - Carolina Sandoval-Garcia, MD
- **8:48-8:54 a.m.**
  - **6. Chiari I malformation and syringomyelia: retrospective observations from the Park-Reeves Syringomyelia Research Consortium**
  - Syed Hassan Akbari, MD
- **8:55-9:01 a.m.**
  - **7. Radiographic outcomes in patients with Chiari Type 1 Malformation and increased pB-C2 distance without fusion**
  - Tanya Minasian, DO
- **9:02-9:08 a.m.**
  - **8. Think-A-Head**
  - Sarah J. Gaskill, MD, FAANS
- **9:09-9:15 a.m.**
  - **Group 2 Q & A**
### Group 3

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>9:16–9:22 a.m.</td>
<td>9. Patterns of Antiepileptic Drug Use in Pediatric Patients with Surgically Managed Epilepsy: a Retrospective Review of Data from Boston Children's Hospital</td>
<td>Shelly Wang, MD</td>
</tr>
<tr>
<td>9:23–9:29 a.m.</td>
<td>10. Three Decades of Hemispherectomies: The Miami Experience</td>
<td>Travis S. Tierney, MD, PhD</td>
</tr>
<tr>
<td>9:30–9:36 a.m.</td>
<td>11. Tailored Stereotactic Sampling and Laser Thermoablation for Non-Lesional Pediatric Epilepsy</td>
<td>Ali S. Haider</td>
</tr>
<tr>
<td>9:44–9:50 a.m.</td>
<td>13. Hemispherectomy for catastrophic epilepsy in the young: safety and efficacy in children under three</td>
<td>Angela Richardson, MD</td>
</tr>
<tr>
<td>10:15–10:45 a.m.</td>
<td>14. A Murine Model for Postmalarial Epilepsy and SUDEP</td>
<td>Steven J. Schiff, MD, PhD</td>
</tr>
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<td>10:46–10:52 a.m.</td>
<td>15. Long-Term Outcome of Selective Dorsal Rhizotomy</td>
<td>Tae Sung Park, MD, FAANS</td>
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<tr>
<td>11:07–11:13 a.m.</td>
<td>16. Kinase-dependent Cerebrospinal Fluid Hypersecretion Triggered by Choroid Plexus Inflammation in Intraventricular Hemorrhage-associated Hydrocephalus</td>
<td>Jason Karimy</td>
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### Group 4

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<td>Jason Karimy</td>
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### Group 3 Q & A

- 9:44–9:50 a.m.
- Group 3 Q & A

### Group 4 Q & A

- 1:01–2:44 p.m.
- Scientific Session III: Neoplasm
- Location: Floridian Ballroom A-F
- Moderators: Vivek Mehta, MD, MS, FAANS, David I. Sandberg, MD, FAANS

### Annual Meeting Program Schedule

1. **Group 3**
   - 9:51–10:14 a.m.  
   - 2016 Franc D. Ingraham Award for Distinguished Service and Achievement
   - **Introduced By**: Andrew H. Jea, MD, FAANS
   - **Recipient**: Thomas G. Luerssen, MD, FAANS

2. **Group 4**
   - 10:46–10:52 a.m.  
   - Scientific Session II: Functional II
   - **Location**: Floridian Ballroom A-F
   - **Moderators**: Alexandra Beier, DO, Sanjiv Bhatia, MD, FAANS

3. **Scientific Session III: Neoplasm**
   - Location: Floridian Ballroom A-F
   - Moderators: Vivek Mehta, MD, MS, FAANS, David I. Sandberg, MD, FAANS

4. **11:14–11:20 a.m.**
   - Group 4 Q & A

5. **1:01–2:44 p.m.**
   - **Scientific Session III: Neoplasm**
   - **Location**: Floridian Ballroom A-F
   - **Moderators**: Vivek Mehta, MD, MS, FAANS, David I. Sandberg, MD, FAANS

6. **Lunch in the Exhibit Hall**
   - **Location**: Floridian Ballroom G-L
   - The Learning Center

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**Additional Events**

- **9:51–10:14 a.m.**  
  - **2016 Franc D. Ingraham Award for Distinguished Service and Achievement**
  - **Introduced By**: Andrew H. Jea, MD, FAANS
  - **Recipient**: Thomas G. Luerssen, MD, FAANS

- **10:15–10:45 a.m.**  
  - **Beverage Break in the Exhibit Hall Honoring Thomas G. Luerssen, MD, FAANS**
  - **Location**: Floridian Ballroom G-L

- **10:46–11:59 a.m.**  
  - **Scientific Session II: Functional II**
  - **Location**: Floridian Ballroom A-F
  - **Moderators**: Alexandra Beier, DO, Sanjiv Bhatia, MD, FAANS

- **11:21–11:59 a.m.**  
  - **Raimondi Lecture Experience Innovation**
  - **Jim MacPhee**

- **12–1 p.m.**  
  - **Lunch in the Exhibit Hall**
  - **Conversation With Jim MacPhee**
  - **Location**: Floridian Ballroom G-L
  - The Learning Center
11

Group 5
1-1:07 p.m.
★17. Using Tumor Behavior Patterns to Determine Optimal Post-Treatment Cancer Surveillance Protocols for Low-Grade Pediatric Brain Tumors
Mohamed A. Zaazoue, MD
1:08-1:14 p.m.
18. Histone H3 Mutation is Detectable in Cerebrospinal Fluid from Children with High-Grade Glioma
Amanda Muhs Saratsis, MD
1:15-1:21 p.m.
★19. Ependymomas Promote Endothelial Cell Migration with Secreted Factors Independent of Netrin-1 Stimulation
David Penn, MD
1:22-1:28 p.m.
★20. Synergistic Antineoplastic Activity of PI3K Inhibitor ZSTK474 and MEK Inhibitor Trametinib on Diffuse Intrinsic Pontine Glioma Cells
Raymond Chang
1:29-1:35 p.m.
Group 5 Q & A

Group 6
1:36-1:42 p.m.
Peter F. Morgenstern, MD
2:00-2:10 p.m.
Group 6 Q & A

3:16-4:29 p.m.
Scientific Session IV: Hydrocephalus/ETV
Location: Floridian Ballroom A-F
Moderators
Arthur J. DiPatri Jr., MD, FAANS
Jeffrey Steven Raskin, MD
3:37-3:43 p.m.
28. Prospective multicenter results of endoscopic third ventriculostomy (ETV) with choroid plexus catterization (CPC) and comparison to ETV alone and shunt in infant hydrocephalus: a Hydrocephalus Clinical Research Network study
Abhaya Vivek Kulkarni, MD, FAANS
3:44-3:50 p.m.
Group 6 Q & A

Group 7
3:16-3:22 p.m.
★25. Preoperative echocardiogram abnormalities are associated with failure of endoscopic third ventriculostomy in hydrocephalic infants.
Aishib Shah, MD
3:23-3:29 p.m.
26. Early Neurodevelopmental Outcomes in the Shunting Outcomes of Posthemorrhagic Hydrocephalus (SOPHH) Study
Chevis Shannon, MBA, MPH, DrPH
3:30-3:36 p.m.
27. Hydrocephalus based procedures in an adult/transition Spina Bifida Clinic: a 5 year experience
Jeffrey P. Blount, MD, FAANS
3:51-4:29 p.m.
Clinical Symposium II: Topics in Hydrocephalus: A Personal Perspective
Speaker
Arthur E. Marlin, MD, FAANS
4:30-4:45 p.m.
AANS/CNS Section on Pediatric Neurological Surgery Annual Business Meeting
4:46-5 p.m.
AAP/Section on Neurological Surgery (SONS) Business Meeting
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<tbody>
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<td>6 a.m.-5 p.m.</td>
<td><strong>Registration</strong></td>
<td>Floridian Ballroom West Foyer</td>
</tr>
<tr>
<td>7 a.m.-4 p.m.</td>
<td><strong>Speaker Ready Room</strong></td>
<td>Indian River Room (Lower Level)</td>
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<tr>
<td>8:01-9:44 a.m.</td>
<td><strong>Scientific Session V: Spine</strong></td>
<td>Floridian Ballroom A-F</td>
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</tbody>
</table>
|              | **Moderators**                                                       | Luis F. Rodriguez, MD, FAANS  
|              |                                                                    | Eric R. Trumble, MD, FAANS  |
| 8:07-8:10 a.m.| **Section Research Award Updates**                                    |                            |
| 8:11-8:14 a.m.| **TRPV4 Antagonists for the Treatment of Hydrocephalus**               |                            |
|              | Andrea Gail Scherer, MD                                               |                            |
| 8:15-8:18 a.m.| **2017 RFA Fellow/Junior Faculty Research Grant**                     |                            |
|              | Edward R. Smith, MD, FAANS                                            |                            |
| 8:19-8:22 a.m.| **Q & A**                                                            |                            |
|              | **Group 8**                                                          |                            |
| 8:23 a.m.-8:29 a.m.| **29. Growth and Alignment Following**  
|              | Subaxial Cervical Spine Instrumentation and Fusion**                  |                            |
|              | Hannah Goldstein, MD                                                  |                            |
| 8:30-8:36 a.m.| **30. Safety and Utility of Dynamic MRI of the Cervical Spine in Children**  
|              | Derek Yecies, MD                                                      |                            |
| 8:37-8:43 a.m.| **31. Analysis of scoliosis in patients with Chiari malformation and syrinx from the Park-Reeves Syringomyelia Research Consortium**  
|              | Jennifer Strahle, MD                                                  |                            |
| 8:44-8:50 a.m.| **32. Risk Factors for Progressive Neuromuscular Scoliosis Requiring Posterior Spinal Fusion after Selective Dorsal Rhizotomy in Children**  
|              | Vijay Mysore Ravindra, MD                                             |                            |
| 8:51-8:57 a.m.| **Group 8 Q & A**                                                    |                            |
| 9:45-10:15 a.m.| **Beverage Break in the Exhibit Hall**                                | Floridian Ballroom G-L     |
| 10:16-10:22 a.m.| **Group 9**                                                          |                            |
| 10:23-10:29 a.m.| **33. The Use of Dynamic MRI in Evaluating the Craniocervical Junction Patients with Down’s Syndrome**  
|              | Albert Tu, MD, FAANS                                                  |                            |
| 10:30-10:36 a.m.| **34. Bilateral Sagittal Split Mandibular Osteotomies for Enhanced Exposure of the Anterior Cervical Spine in Children**  
|              | Michael Karsy, MD, PhD                                                |                            |
| 10:37-10:43 a.m.| **35. A Novel Technique for Occipitocervical Fusion Using Compressed Tricortical Iliac Crest Allograft Results in a High Rate of Fusion in the Pediatric Population**  
|              | Rajiv Iyer, MD                                                        |                            |
| 10:44-10:50 a.m.| **Group 9 Q & A**                                                    |                            |
Annual Meeting Program Schedule

**Group 10**

10:51-10:57 a.m.
37. Skull Fractures: Does Being an Airhead Matter?
*Katrina A. Ducis, MD*

10:58-11:04 a.m.
38. Surgical Intervention for Traumatic Injury Scale: A Tool for Communicating Potential Need for Surgery Following Pediatric Traumatic Brain Injury
*David L. Dornbos III, MD*

11:05 a.m. - 11:11 a.m.
39. Cervical Spine Injury and Non-Accidental Trauma: Secondary Analysis of a Multi-Center Prospective Study
*Annie Drapeau, MD*

11:12-11:18 a.m.
40. Disposition of Children with Mild to Moderate Traumatic Brain Injury and Positive Head Imaging
*Eric M. Jackson, MD, FAANS*

11:19-11:25 a.m.
Group 10 Q & A

11:26–11:59 a.m.
**Clinical Symposium III: Stem Cell and Pediatric Neurosurgery**

*Panelists*

- Jocelyne Bloch, MD
- Cesario V. Borlongan, PhD

12–1 p.m.
**Lunch in the Exhibit Hall**

*Conversation With Jocelyne Bloch, MD, and Cesario V. Borlongan, PhD*

*Location: Floridian Ballroom G-L*

*The Learning Center*

1:01–1:31 p.m.
**Poster Board Viewing**

*Location: Floridian Ballroom A–F and Foyer*

Poster authors are available at their poster board displays to answer questions.

1:32–2:48 p.m.
**Scientific Session VII: Socioeconomic**

*Location: Floridian Ballroom A-F*

*Moderators*

- Toba N. Niazi, MD, FAANS
- Peter P. Sun, MD, FAANS

2:07–2:48 p.m.
**AAP/Section on Neurological Surgery (SONS) Lecture**

*Hacking your Brain for Happiness*

*James R. Doty, MD, FAANS*

1:32–1:38 p.m.
**Group 11**

1:39–1:45 p.m.
41. Economic Benefit of Neurosurgical Intervention for Hydrocephalus in Haiti
*Zachary S. Hubbard*

1:46–1:52 p.m.
42. The Use of Social Media in Hydrocephalus: A Cross-Sectional Analysis.
*Naif M. Alotaibi, MD*

1:53–1:59 p.m.
43. Early Reoperations following 7,492 Pediatric Neurosurgery Procedures
*David M. Garcia, MD*

2:00–2:06 p.m.
44. Assessing Resident Operative Skills for Shunt Surgery in Pediatric Neurosurgery
*Guillermo Aldave*

2:07–2:48 p.m.
**Beverage Break in the Exhibit Hall**

**First Prize Drawing**

*Location: Floridian Ballroom G-L*

2:49–3:19 p.m.
**Scientific Session VIII: Trauma II/Technical Advances**

*Location: Floridian Ballroom A-F*

*Moderators*

- Scott W. Elton, MD, FAANS
- David D. Gonda, MD

3:20–4:29 p.m.
**Discussion**

*Location: Floridian Ballroom A-F*

*Moderators*

- Scott W. Elton, MD, FAANS
- David D. Gonda, MD
Group 13
3:55–4:01 p.m.
49. Resting State Functional Magnetic Resonance Imaging for Cerebral Mapping in Pediatric Neurosurgical Patients
Jarod Roland, MD

4:02–4:08 p.m.
50. Risk Factors for Surgical Site Infection Following Non-Shunt Pediatric Neurosurgery: A Review of 9,296 Procedures from a National Database and Comparison to a Single Center Experience
Brandon A. Sherrod

4:09–4:15 p.m.
51. Phase-Contrast Cine Cerebrospinal Fluid (CSF) Flow Magnetic Resonance Imaging (MRI) in Evaluating Distribution of Infused Agents from the Fourth Ventricle to the Total Spine
David I. Sandberg, MD, FAANS

4:16–4:22 p.m.
52. Cerebrospinal Fluid Composition after Endoscopic Third Ventriculostomy with Choroid Plexus Cauterization
Michael Dewan, MD

4:23–4:29 p.m.
Group 13 Q & A

Thursday, Dec. 8
6–11 a.m.
Registration
Location: Floridian Ballroom West Foyer

7–11 a.m.
Speaker Ready Room
Location: Indian River Room (Lower Level)

7:15–8 a.m.
Continental Breakfast in the Exhibit Hall

8:01–9:59 a.m.
Scientific Session IX: Socioeconomic II/Technical Advances II/Vascular
Location: Floridian Ballroom A-F
Moderators
Erin Kiehna, MD
David M. Wrubel, MD, FAANS

8:01–8:03 a.m.
Top Poster Awards Announced
Greg Olavarria, MD, FAANS

6–9 p.m.
Satellite Symposium
Monitoring & Managing Intracranial Pressure in Complex Pediatric Cases
Location: Bonnet Creek Ballroom III
All medical attendees welcome to attend.
Presented by Codman Neuro.
**Group 14**

8:04–8:10 a.m.
53. Unplanned Readmission and Return to Operating Room within 90–days of Pediatric Neurosurgery
_Silky Chotai, MD_

8:11–8:17 a.m.
54. Evidence–based Guidelines for Management of Pediatric Positional Plagiocephaly
_Ann Marie Flannery, MD, FAANS_

8:18–8:24 a.m.
55. Treatment of Hydrocephalus in an Ovine Model with an Intraparenchymal Stent Prototype
_Jonathan Jay Stone, MD_

8:25–8:31 a.m.
56. Evaluating 18F3B–Conjugated Panobinostat as a Theranostic for Convection Enhanced Delivery (CED) in the Treatment of DIPG
_Umberto Tosi_

8:32–8:38 a.m.
Group 14 Q & A

**Group 15**

9:25–9:31 a.m.
57. Applications of the ROSA Robotic Stereotactic Arm for Pediatric Epilepsy and Tumor Surgery
_Brandon A. Miller, MD_

9:32–9:38 a.m.
58. High Initial CSF Protein Predicts the Need for Ventriculoperitoneal Shunting and Shunt Failure in Preterm Infants with Posthemorrhagic Hydrocephalus
_William L. Titusworth, MD_

9:39–9:45 a.m.
59. Preoperative Risk Stratification Scale for Perioperative Stroke in Pediatric Moyamoya Patients
_Edward R. Smith, MD, FAANS_

9:46–9:52 a.m.
60. Predicting Blunt Cerebrovascular Injury in Pediatric Trauma
_Vijay M. Ravindra, MD_

9:53–9:59 a.m.
Group 15 Q & A

10:31–11:10 a.m.
**Scientific Session X: Vascular II/Miscellaneous**
Location: Floridian Ballroom A-F

**Moderators**
_Cormac O. Maher, MD, FAANS
Ivan J. Sosa, MD, FAANS_

10:31–11:01 a.m.
**Clinical Symposium IV: Activity Recommendations for Children with Intracranial Imaging Findings**
Speaker
_Cormac O. Maher, MD, FAANS_

**Group 16**

11:02–11:08 a.m.
61. Netrin 1 Induced Changes in Expression of Netrin Receptors and Growth Factors on Human Endothelial Cells
_David Penn, MD_

11:09–11:15 a.m.
62. Microsurgical Treatment of Pediatric Rolandic Arteriovenous Malformations
_Newton Cho, MD_

11:16–11:22 a.m.
63. Improved Visualization of Pediatric Brain Arteriovenous Malformations Using High Resolution Vascular MRI and Blood Pool Agent (Ferumoxytol)
_James Andrew Stadler III, MD_

11:23–11:29 a.m.
64. Compliance Measurements in a New Gyrencephalic Model of Infantile Post Hemorrhagic Hydrocephalus
_James (Pat) Patterson McAllister II, PhD_

11:30–11:36 a.m.
Group 16 Q & A

11:37–11:40 a.m.
Hydrocephalus, Shulman and AAP/SONS Abstract Awards Announced
_Sarah J. Gaskill, MD, FAANS_

11:40 a.m.
Closing Remarks
_Sarah J. Gaskill, MD, FAANS_
Win Complimentary Registration and Hotel Stay at the 2017 Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery

Instructions

Attendees have the opportunity during breaks, meals and the Wine & Cheese Reception to win free meeting registration and a two-night stay for the 46th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery in Houston. To participate, stop by each exhibitor in the hall and have a representative stamp the exhibitor card on the reverse side. Once each exhibitor has stamped your card, deposit it in the container at the Registration Desk for your chance to win.

Winners must be present to win, and the prize is non-transferable. Drawings will be Wednesday, Dec. 7, at 3 p.m. and Thursday, Dec. 8, at 10:15 a.m.

1. Have your exhibit card stamped at each booth in the Exhibit Hall.
2. Please print all your contact information below.
3. Deposit your exhibit card into the container at the Registration Desk.
4. Make sure to be in the Exhibit Hall on Wednesday, Dec. 7, at 3 p.m. and Thursday, Dec. 8, at 10:15 a.m.

Name ____________________________
Address ____________________________
City/State/Zip/Country ____________________________
Email ____________________________

Participation is limited to health care professionals registered for the meeting.