## Evoked Potentials

**Co-Directors:** Alan Legatt, MD, PhD, FACNS & Elayna Rubens, MD, FACNS

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>7:00AM</td>
<td>Brainstem Auditory Evoked Potentials (BAEPs)</td>
<td>Alan Legatt, MD, PhD, FACNS</td>
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<tr>
<td>7:30AM</td>
<td>Visual Evoked Potentials (VEPs)</td>
<td>Elayna Rubens, MD, FACNS</td>
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<td>8:00AM</td>
<td>Somatosensory Evoked Potentials (SEPs)</td>
<td>Edward Avila, DO</td>
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## EMG and EEG Technology

**Co-Directors:** Susan T. Herman, MD, FACNS & Seward Rutkove, MD

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>7:00AM</td>
<td>EMG Technology</td>
<td>Seward Rutkove, MD</td>
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<tr>
<td>7:45AM</td>
<td>EEG Technology</td>
<td>Susan T. Herman, MD, FACNS</td>
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## Neurophysiologic Intraoperative Monitoring (NIOM): Part I

**Co-Directors:** Aatif M. Husain, MD, FACNS & Michael McGarvey, MD, FACNS

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>9:00AM</td>
<td>SEP Monitoring</td>
<td>TBD</td>
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<tr>
<td>9:45AM</td>
<td>MEP Monitoring</td>
<td>Aatif M. Husain, MD, FACNS</td>
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<tr>
<td>10:40AM</td>
<td>BAEP Monitoring</td>
<td>Alan Legatt, MD, PhD, FACNS</td>
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<tr>
<td>11:20AM</td>
<td>EEG Monitoring</td>
<td>Michael McGarvey, MD, FACNS</td>
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<tr>
<td>1:15PM</td>
<td>EMG and Peripheral Nerve Monitoring</td>
<td>Viet Nguyen, MD</td>
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<tr>
<td>1:55PM</td>
<td>Cranial Nerve Monitoring</td>
<td>Jaime R. Lopez, MD, FACNS</td>
</tr>
<tr>
<td>2:35PM</td>
<td>Troubleshooting</td>
<td>Emily B. Kale, BS, CNIM</td>
</tr>
<tr>
<td>3:30PM</td>
<td>Anesthesia</td>
<td>Dileep Nair, MD</td>
</tr>
<tr>
<td>4:10PM</td>
<td>Billing Issues</td>
<td>Marc R. Nuwer, MD, PhD, FACNS</td>
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</tbody>
</table>

## Intensive Care Unit EEG Monitoring

**Co-Directors:** Cecil D. Hahn, MD, MPH, FACNS & Jong Woo Lee, MD, PhD, FACNS

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>9:00AM</td>
<td>Overview of ICU EEG Monitoring in Neonates, Children, and Adults</td>
<td>Nicholas S. Abend, MD, FACNS</td>
</tr>
<tr>
<td>9:40AM</td>
<td>Guidelines and Logistics of ICU EEG Monitoring</td>
<td>Susan T. Herman, MD, FACNS</td>
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<tr>
<td>10:40AM</td>
<td>cEEG Interpretation: Assessment of Background, Sleep, Reactivity &amp; Artifacts</td>
<td>Suzette LaRoche, MD, FACNS</td>
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<tr>
<td>11:10AM</td>
<td>cEEG Interpretation: The Ictal-Interictal Continuum</td>
<td>Lawrence J. Hirsch, MD, FACNS</td>
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<tr>
<td>11:40AM</td>
<td>cEEG Interpretation: Neonates</td>
<td>Courtney J. Wusthoff, MD</td>
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<tr>
<td>1:10PM</td>
<td>Quantitative EEG for Ischemia Detection</td>
<td>M. Brandon Westover, MD, PhD</td>
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<tr>
<td>1:40PM</td>
<td>Quantitative EEG for Seizure Detection</td>
<td>Cecil D. Hahn, MD, MPH, FACNS</td>
</tr>
<tr>
<td>2:10PM</td>
<td>Finances, Billing &amp; Coding</td>
<td>Marc R. Nuwer, MD, PhD, FACNS</td>
</tr>
<tr>
<td>3:00PM</td>
<td>Treatment of Nonconvulsive Seizures, Status Epilepticus, and Postanoxic Myclonus</td>
<td>Jong Woo Lee, MD, PhD, FACNS</td>
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<tr>
<td>3:30PM</td>
<td>Multimodality Monitoring in Acute Brain Injury</td>
<td>Jan Claassen, MD, PhD</td>
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<td>4:00PM</td>
<td>ICU EEG Reading Session: Neonatal Cases</td>
<td>Ronit Pressler, MD</td>
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<tr>
<td>4:20PM</td>
<td>ICU EEG Reading Session: Pediatric Cases</td>
<td>William B. Gallentine, DO, FACNS</td>
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<tr>
<td>4:40PM</td>
<td>ICU EEG Reading Session: Adult Cases</td>
<td>Elizabeth Gerard, MD, FACNS</td>
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### Stereo-EEG

**Thursday, February 11, 2016**

**7:00 AM – 8:30 AM**

**Co-Directors:** Stephan U. Schuele, MD, MPH, FACS & Nitin Tandon, MD

- **7:00 AM** Patient and Electrode Selection  
  Stephan U. Schuele, MD, MPH, FACS

- **7:30 AM** Image Processing and Surgical Planning  
  Giridhar Kalamangalam, MD, DPhil, FACS

- **8:00 AM** Nuts and Bolts of Surgical Implantation  
  Nitin Tandon, MD

### Non-Invasive Brain Stimulation Technology

**7:00 AM – 8:30 AM**

**Co-Directors:** Charles Epstein, MD, FACS & Alexander Rotenberg, MD, PhD

- **7:00 AM** The Basics of TMS and TDCS: Circuits, Physics, and Specific Neuronal Elements  
  Charles Epstein, MD, FACS

- **7:40 AM** Putting the Pieces Together: Ion-Channels, Transmitters, Classic and Contemporary Studies in Non-Invasive Brain Stimulation  
  Alexander Rotenberg, MD, PhD

### Applied Cases in Central Neurophysiology and Video-EEG

**9:00 AM – 10:30 AM**

**Co-Directors:** William O. Tatum, IV, DO, FACS & Selim Benbadis, MD, FACS

This session will be a fast paced, interactive “show and tell” where audience participation is encouraged. Several challenging EEGs and videos will be presented and lively discussion between the session directors and the audience.

### Neurophysiologic Intraoperative Monitoring (NIOM) Part II

**9:00 AM – 5:00 PM**

**Co-Directors:** Aatif M. Husain, MD, FACS & Michael McGarvey, MD, FACS

- **9:05 AM** Pre-Operative Motor Pathway Assessment  
  Gloria M. Galloway, MD, FACS

- **9:45 AM** D Wave Monitoring with Case Discussions  
  Eva K. Ritzl, MD, FACS

- **10:40 AM** Sensory and Motor Spinal Cord Mapping  
  Mirela V. Simon, MD, FACS

- **11:20 AM** Monitoring During Movement Disorders Surgery  
  Jay L. Shils, PhD, D.ABNM, FACS

- **1:15 PM** Pelvic Floor Evaluation  
  Jaime R. Lopez, MD, FACS

- **1:55 PM** Pelvic Floor Monitoring  
  Stanley Skinner, MD, FACS

### Electrocorticography & Invasive EEG

**9:00 AM – 5:00 PM**

**Co-Directors:** Stephan U. Schuele, MD, MPH, FACS & Lawrence J. Hirsch, MD, FACS

- **9:15 AM** Non-Invasive Evaluations that Lead to Invasive EEG Testing  
  Giridhar Kalamangalam, MD, DPhil, FACS

- **9:45 AM** Choosing Intracranial Electrodes  
  Stephan U. Schuele, MD, MPH, FACS

- **10:15 AM** Surgical Techniques Including Risks of Invasive Implantations  
  Jorge Gonzalez-Martinez, MD, PhD

- **11:00 AM** Patterns of Seizure Onsets & Spread, Underlying Pathological Substrates, Surgical Outcomes in Adults  
  Lawrence J. Hirsch, MD, FACS

- **11:30 AM** Discussion and Demonstrations of Patterns of Seizure Onsets & Spread, Underlying Pathological Substrates, Surgical Outcomes in Children  
  Tobias Loddenkemper, MD, FACS

- **1:00 PM** Concept of “Epileptogenic Zones/Networks” and Identifying Them with Invasive EEG  
  Lara E. Jehi, MD

- **1:45 PM** Case Discussion I: Non-Lesional Neocortical Epilepsy  
  Jay Gavvala, MD

- **2:05 PM** Case Discussion II: FCD: ECoG vs. Invasive Implantation  
  Lawrence J. Hirsch, MD, FACS

- **2:25 PM** Case Discussion III: Bi-Temporal Lobe Epilepsy  
  Lawrence J. Hirsch, MD, FACS

- **3:15 PM** Functional Mapping with Intracranial EEG  
  Anthony Ritaccio, MD, FAAN, FANA

- **4:00 PM** Wideband Intracranial EEG and Localization of Seizure Foci  
  Gregory Worrell, MD

### Applied Cases in Peripheral Neurophysiology

**10:45 AM – 12:45 PM**

**Co-Directors:** Jaime R. Lopez, MD, FACS & Eliott Dimberg, MD

- **10:45 AM** Applied Cases in Peripheral Neurophysiology  
  Seward Rutkove, MD

- **11:15 AM** Applied Cases in Peripheral Neurophysiology  
  Randa Jarrar, MD

- **11:45 AM** Applied Cases in Peripheral Neurophysiology  
  Elliot Dimberg, MD
Thursday, February 11, 2016

CNP Program Directors Symposium
11:30AM – 2:00PM
Director: Jeffrey Britton, MD, FACNS
11:30AM Welcome & Lunch
12:00PM ACGME Program Requirement Review
   Jeffrey Britton, MD, FACNS
12:30PM Milestone Update - Evaluations and Other Methods
   Ruple Laughlin, MD and Jeffrey Britton, MD, FACNS
1:00PM Quality Improvement Projects
   Andrea Hakimi, DO, FACNS
1:30PM ACGME Review Committee Q&A
   Imran Ali, MD
   ACGME Review Committee Member

Autonomic Neurophysiology
1:00 – 2:30PM
Co-Directors: Claus Reinsberger, MD, PhD & Jeffrey Liou, MD
1:05PM Autonomic Testing
   Jeffrey Liou, MD
1:35PM Neurological Disorders with Central Autonomic Failure
   Alexandra Hovagimian, MD
2:00PM Peripheral Autonomic Failure
   Brent Goodman, MD

Business of Clinical Neurophysiology
3:00 – 4:30PM
Co-Directors: Marc R. Nuwer, MD, PhD, FACNS & Yafa Minazad, MD, FACNS
3:00PM What am I Worth: Overview of Fair Market Value
   L. Elizabeth Mullikin, FACHE
3:40PM Untangling compensation
   Pradeep Modur, MD, MS
4:20PM Discussion

Friday, February 12, 2016

Video-EEG
7:30 – 10:30AM
Co-Directors: Phillip Pearl, MD, FACNS & Michael Sperling, MD, FACNS
7:30AM Technical Aspects of Video EEG/Building and EMU
   Barbara Jobst, MD
8:00AM Psychogenic Nonepileptic Seizures
   Selim R. Benbadis, MD, FACNS
8:30AM Scalp Video EEG in Epilepsy Evaluation
   Meriem Bensalem-Owen, MD, FACNS
9:00AM Video EEG in Pediatrics
   Phillip Pearl, MD, FACNS
9:30AM Intracranial EEG and Video Correlation: HFOs and Ictal Events
   Michael R. Sperling, MD, FACNS
10:00AM Discussion

EMG
7:30 – 10:30AM
Co-Directors: Francis O. Walker, MD, FACNS & Devon Rubin, MD
7:30AM Electrodiagnostic Assessment of CTS and Mononeuropathies
   Francis O. Walker, MD, FACNS
8:15AM Electrodiagnostic Evaluation of Polyneuropathy
   Daniel L. Menkes, MD, FACNS
9:00AM Electrodiagnostic Assessment of Radiculopathies
   Seward Rutkove, MD
9:45AM Electrodiagnostic Evaluation of Neuromuscular Junction Disorders
   Devon Rubin, MD

Neonatal & Pediatric EEG
7:30 – 10:30AM
Co-Directors: Mark Schar, MD & Courtney Wusthoff, MD
7:30AM Neonatal EEG
   Ronit M. Pressler, MD, PhD
8:30AM Childhood EEG Background & Common Abnormalities
   Asim Shahid, MD
9:30AM Childhood “Epileptiform” Variants and Tricky Findings
   Adam Hartman, MD