COME TO WESTON TO

• Learn about the latest trends in neurodiagnostics
• Acquire continuing education in the most interesting and interactive way possible
• Network with colleagues and friends
• Participate in activities and discussions that will help you grow professionally
• Evaluate the newest in equipment and supplies in the Exhibit Hall
• Earn up to 23 ASET-CEUs

Presented by ASET - The Neurodiagnostic Society
GETTING EMPLOYER SUPPORT TO ATTEND THE ASET 2015 ANNUAL CONFERENCE

In the last several years travel and training budgets have been reduced and some hospitals or healthcare facilities are experiencing strict financial constraints. Here are some additional tips on getting employer support for attending ASET’s 2015 Annual Conference.

• Focus on how your attendance at the conference will benefit the lab as a whole and the valuable information you will bring back.
• Explain what you will get from attending, such as continuing education credits (ASET-CEUs); a full 3-day registration is worth 21.5 ASET-CEUs!
• Offer to deliver a short presentation and Q&A to your co-workers on what you learned at the conference.
• As an attendee you will be provided a flash drive with the course handouts. Offer to share this material with your colleagues.
• Review the course schedule in advance and explain what you plan to attend, and how it will help you and your facility.
• Offer to share a hotel room with another attendee in order to decrease expenses.
• Be prepared with a plan for who will cover your work while you are away.
• Plan ahead to make sure you get registered at the discounted rate. The last day for the early-bird rate is June 15.

The three days during ASET’s 2015 Annual Conference will be the most cost-effective professional development choice you can make all year.

MAKING WAVES

We invite you to join us for the 56th ASET Annual Conference in Weston, Florida. Our three-day program is packed with valuable presentations and workshops that will help you build skills and make a difference in your work experience. Each day begins with a plenary session - a special lecture for all attendees - starting with the exciting Keynote address the first day. Multiple course tracks and platform presentations will run concurrently throughout the day, allowing for maximum flexibility and customized learning. Enjoyable learning continues with poster viewing sessions in the exhibit hall during breaks. You also will have the opportunity to meet with vendors and explore the latest in recording equipment, electrodes and neurodiagnostic supplies. Evening social events will round out your experience and provide networking opportunities. You won’t want to miss the opportunity to dance to the music of ASET’s own band, “The Dendrites”! The final event of the conference will be a symposium with an expert panel discussion about the prevention of electrode injuries and skin breakdown. To view the daily schedules, go to pages 3, 4 and 5. Plenary sessions are highlighted on pages 6 and 7.

The Bonaventure Resort and Spa is a lush, tropical resort in Weston, Florida, conveniently located twenty minutes from the Fort Lauderdale airport, and just 30 miles from Miami. This is a family-friendly resort. The main swimming pool includes a waterfall and there is a nature walk on the 23 acre property, a PGA golf course, and a full-service spa. The hotel has multiple dining options; from poolside café to steakhouse cuisine. A free shuttle service will take guests to the nearby Sawgrass Mills Outlet Shopping Center for additional dining options as well as bargain-hunting. You can also explore the nearby Everglades and perhaps book an airboat tour! Or bring the family to one of the pristine Fort Lauderdale beaches! Join us July 30-August 1, 2015 where we will be “Making Waves”!

WHO SHOULD ATTEND?

ASET welcomes neurodiagnostic technologists and students, physicians, other health care providers, and personnel representing vendors that supply products and services to the profession. This is the premier event for all disciplines of neurodiagnostics, including EEG, EPs, Intraoperative Neuromonitoring, Long-Term and ICU Monitoring, Nerve Conduction Studies, TCD, MEG, CAP, Pediatric Neurodiagnostics, and professional development for the Neurodiagnostic technologist.
## SCHEDULE OF EVENTS

**THURSDAY, JULY 30**

<table>
<thead>
<tr>
<th>Time</th>
<th>Program Committee</th>
<th>Course Director:</th>
<th>Course Director:</th>
<th>Course Director:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Margaret Walcoff, R. EEG/EP T., CNIM, FA SET, MEd Brian Adkins, R. EEG T., CNIM, BS</td>
<td>Kirsten Yelvington, R. EEG T., CLTM</td>
<td>Janet James, R. EEG T., R.NCS.T., CNCT</td>
<td>Petra Davidson, R. EEG/EP T., BS</td>
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<tr>
<td></td>
<td><strong>Platform Presentations Track</strong></td>
<td>Long Term Monitoring Course Track</td>
<td>NCS Key Topics Course Track</td>
<td>Transcranial Doppler Mini-Course</td>
</tr>
<tr>
<td>8:15 – 9:15 a.m.</td>
<td><strong>Plenary Session</strong></td>
<td>Lewis Kull Memorial Keynote Address</td>
<td>“DARPA’s Advances in Brain Function Research”</td>
<td></td>
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<tr>
<td></td>
<td>From EEG Tech to Entrepreneur Seven Easy Steps: Simon Griffin</td>
<td>A Doctor and Patient LTM Case Study</td>
<td>Stimulator, Amplifiers, Filters and all that Stuff We Love to Hate</td>
<td>Overview of Trans-cranial Doppler: Theory and Techniques</td>
</tr>
<tr>
<td>9:45 – 10:15 a.m.</td>
<td>Clinical Applications of QEEG and sLORETA Analysis: David Cantor, PhD</td>
<td>Cervical Radiculopathy, Brachial Plexopathy or Mononeuropathy</td>
<td>Jerry Morris, R.NCS.T., CNCT, MS</td>
<td>TCD Hands-on Workshop: Donalee Davis, CNRN</td>
</tr>
<tr>
<td>10:15 – 11:00 a.m.</td>
<td>Break in Exhibit Hall with Poster Viewing</td>
<td>New Session</td>
<td>Overview of Neurovascular Imaging: Theory and Techniques</td>
<td>Donalee Davis, CNRN</td>
</tr>
<tr>
<td>11:00 a.m. – noon</td>
<td>Vestibular Evoked Myogenic Potentials (VEMPs): Eleftherios Papathanasiou, PhD, FEAN</td>
<td>Epilepsy Co-Morbidities</td>
<td>Jenny Morris, R.NCS.T., CNCT, MS</td>
<td>New Session: Donalee Davis, CNRN</td>
</tr>
<tr>
<td>Noon – 1:30 p.m.</td>
<td>Annual Business Meeting Luncheon</td>
<td>LTM Journeys: From First Admission to Implants to Final Outcome</td>
<td>New Session: Donalee Davis, CNRN</td>
<td>New Session: Donalee Davis, CNRN</td>
</tr>
<tr>
<td>1:30 – 2:00 p.m.</td>
<td>The Other Side of the Electrodes: Anna Marie Beck, R. EEG T.</td>
<td>Cannabinoids and the Treatment of Epilepsy: Jason Sebesto, DO</td>
<td>Numbness, Pain And Weakness: What Does It All Mean?</td>
<td>New Session: Donalee Davis, CNRN</td>
</tr>
<tr>
<td>2:00 – 2:30 p.m.</td>
<td>Semiology and Electrical Patterns of Frontal Lobe Seizures: Lixia Gao R. EEG T., MS</td>
<td>LTM Journeys: From First Admission to Implants to Final Outcome: Jerry Shiht, MD</td>
<td>New Session: Donalee Davis, CNRN</td>
<td>New Session: Donalee Davis, CNRN</td>
</tr>
<tr>
<td>2:30 – 3:30 p.m.</td>
<td>ABRET Exam Development and Scoring: Patricia Trudeau, R. EEG T., CLTM, FA SET</td>
<td>ABRET Exam Development and Scoring</td>
<td>CPT Mini-Course</td>
<td>New Session: Donalee Davis, CNRN</td>
</tr>
<tr>
<td>3:00 – 3:45 p.m.</td>
<td>Utilizing Longer Intramuscular Needle Pair Electrodes: Faisal Jahangiri, MD, CNIM, DABNM, FASNM</td>
<td>ABSTRACT TBA</td>
<td>ABSTRACT: TBA</td>
<td>New Session: Donalee Davis, CNRN</td>
</tr>
<tr>
<td>3:45 – 4:15 p.m.</td>
<td>An Overview of the Pre-Surgical Workup with Video EEG and EMU Safety: Meriem Bensalem-Owen, MD, FANA, FACNS</td>
<td>ABSTRACT TBA</td>
<td>ABSTRACT: TBA</td>
<td>New Session: Donalee Davis, CNRN</td>
</tr>
<tr>
<td>4:15 – 4:45 p.m.</td>
<td>Uncommon Seizures And Non-Epileptic Events In The EMU: Susan Herman, MD</td>
<td>ABSTRACT TBA</td>
<td>ABSTRACT: TBA</td>
<td>New Session: Donalee Davis, CNRN</td>
</tr>
<tr>
<td>4:45 – 5:30 p.m.</td>
<td>Hands on NCS Workshop: All NCS Faculty</td>
<td>ABSTRACT TBA</td>
<td>ABSTRACT: TBA</td>
<td>New Session: Donalee Davis, CNRN</td>
</tr>
<tr>
<td>6:00 – 7:30 p.m.</td>
<td>Exhibit Hall Welcome Reception</td>
<td>ABSTRACT TBA</td>
<td>ABSTRACT: TBA</td>
<td>New Session: Donalee Davis, CNRN</td>
</tr>
</tbody>
</table>
## SCHEDULE OF EVENTS

**FRIDAY, JULY 31**

<table>
<thead>
<tr>
<th>Time</th>
<th>Track/Session</th>
<th>Program Committee</th>
<th>Course Director</th>
<th>Course Director</th>
<th>Course Director</th>
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<tbody>
<tr>
<td>8:00 – 9:00 a.m.</td>
<td>Platform Presentations Track</td>
<td>Cathleen Zippay, R. EEG/EP T., R.NCS.T., CNIM</td>
<td>Evoked Potentials</td>
<td>EEG and Clinical Correlations</td>
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<tr>
<td>8:00 – 9:00 a.m.</td>
<td>Plenary Session</td>
<td>Ellen Grass Lecture: “Technology in Neurophysiology: History, Mystery and the Future”</td>
<td>Mark Stecker, MD, PhD</td>
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<tr>
<td>9:00 – 9:30 a.m.</td>
<td>Developments in Credentialing and Accreditation</td>
<td>Diane Liesen, R. EEG/EP T., CLTM, MA</td>
<td>SSEP Changes in Carotid Endarterectomy: Correlation to Stroke</td>
<td>Evoked Potentials 101: From the Clinical Setting Basics to the Nuts and Bolts of O.R. Use</td>
<td>The OutPatient Work-up for Epilepsy Cheton Malpe, MD</td>
</tr>
<tr>
<td>9:30 - 10:00 a.m.</td>
<td>Seizures and Epilepsy in Popular Culture</td>
<td>Emma Bryden-Brown, B. Med Sci</td>
<td>Evoked Potentials 101: From the Clinical Setting Basics to the Nuts and Bolts of O.R. Use</td>
<td>Denise Bates, R. EP T., CNIM, MBA/HCM</td>
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<tr>
<td>10:00 - 10:55 a.m.</td>
<td>Break in Exhibit Hall with Poster Viewing</td>
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<tr>
<td>11:45 – 1:15 p.m.</td>
<td>Awards Ceremony Luncheon</td>
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<tr>
<td>1:15 – 1:45 p.m.</td>
<td>Mixed Signals</td>
<td>Susan Hollar, R. EEG T., BS</td>
<td>Troubleshooting in the OR: Is it Technical or Clinical?</td>
<td>Auditory Pathway from Bottom to Top</td>
<td>The Myths and Mysteries of EEG Activations</td>
</tr>
<tr>
<td>1:45 – 2:15 p.m.</td>
<td>Veterans Health Administration: VA Epilepsy Centers of Excellence</td>
<td>Amy Childers, MA; Ronda Tschumper, R. EEG/EP T., CLTM</td>
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<tr>
<td>2:15 – 2:45 p.m.</td>
<td>The Future of CLTM, Becoming Comfortable with the Neonatal ICU</td>
<td>Lisa Adams, R. EEG T.</td>
<td>Challenging Influences in Craniotomy: BAEP Pre-Existing Conditions, Artificial Influences &amp; Ischemia</td>
<td>Somatosensory Evoked Potentials</td>
<td>NMDA Receptor Encephalitis EEG and Clinical Correlations</td>
</tr>
<tr>
<td>2:45– 3:15 p.m.</td>
<td>Case Presentations of Dizziness and Talking Funny</td>
<td>Petra Davidson, R. EEG/EP T., BS</td>
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<tr>
<td>5:00 – 6:30 p.m.</td>
<td>Sundown Seminars (ticketed event) - $30</td>
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<tr>
<td>8:00 – 10:00 p.m.</td>
<td>“Rockin’ In the Rainforest”</td>
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</table>

### Additional Events

- **SUNDOWN SEMINARS**
  - **“Rockin’ In the Rainforest”**
  - **The Dendrites**

- **“I-N-O-M”***
  - ***IONM Updates***
  - ***Course Track***
  - ***Evoked Potentials***
  - ***EEG and Clinical Correlations***

- **IONM Updates**
  - **Developments in Credentialing and Accreditation**
    - Diane Liesen, R. EEG/EP T., CLTM, MA
  - **Seizures and Epilepsy in Popular Culture**
    - Emma Bryden-Brown, B. Med Sci

- **Course Track**
  - **IONM Updates**
    - Plenary Session
      - Ellen Grass Lecture: “Technology in Neurophysiology: History, Mystery and the Future” Mark Stecker, MD, PhD
    - Evoked Potentials 101: From the Clinical Setting Basics to the Nuts and Bolts of O.R. Use
      - Denise Bates, R. EP T., CNIM, MBA/HCM
  - **Evoked Potentials**
    - Evoked Potentials 101: From the Clinical Setting Basics to the Nuts and Bolts of O.R. Use
      - Denise Bates, R. EP T., CNIM, MBA/HCM
    - The OutPatient Work-up for Epilepsy Cheton Malpe, MD
  - **EEG and Clinical Correlations**
    - Veterans Health Administration: VA Epilepsy Centers of Excellence
      - Amy Childers, MA; Ronda Tschumper, R. EEG/EP T., CLTM
    - The Future of CLTM, Becoming Comfortable with the Neonatal ICU
      - Lisa Adams, R. EEG T.
    - Case Presentations of Dizziness and Talking Funny
      - Petra Davidson, R. EEG/EP T., BS
    - Licensure, If Not Now, When?
      - Cathy Boldery, R. EEG/EP T., CNIM, CCT, RPSGT, FASET; Kathryn Hansen, R. EEG T., CPC, CPMA, BA; Craig Schweitzer, CNIM, BA
    - Career Development and Professionalism in IONM
      - Bernard Cohen, PhD, FASNOM, FACNS; Brett Netherton, CNIM, MS
    - Hands-on EP Workshop: VEPs, BAEPs, SSEPs All EP Faculty
      - Brett Netherton, CNIM, MS
      - All EP Faculty
    - Ambulatory EEG Revisited: What’s New?
      - Connie Kubiak, R. EEG/EP T., CNIM, CLTM
    - Over-Reading EEGs
      - Salim Benbadis, MD
  - **Postural Orthostatic Tachycardia Syndrome: A Collection of Symptoms, Not a Disease**
    - Keith Davidson, R. EP T., RPSGT, BA
  - **MEPs in Cerebrovascular Cases**
    - Bryan Wilent, PhD, DABNM
  - **Visual Evoked Potentials**
    - Larry Head, R. EEG/EP T., CNIM, RPSGT, RST, FASET, BAS
  - **EEG Snapshots**
    - Nikesh Ardeshna, MD

- **Generic Event**
  - **Panel Discussion**
    - “Technology in Neurophysiology: History, Mystery and the Future”
    - Mark Stecker, MD, PhD
  - **Workshop**
    - Hands-on EP Workshop: VEPs, BAEPs, SSEPs All EP Faculty
      - All EP Faculty
    - Ambulatory EEG Revisited: What’s New?
      - Connie Kubiak, R. EEG/EP T., CNIM, CLTM
    - Over-Reading EEGs
      - Salim Benbadis, MD
  - **Poster Viewing**
  - **Exhibit Hall Open**
  - **Awards Ceremony Luncheon**
  - **The Myths and Mysteries of EEG Activations**
    - Patricia Trudeau, R. EEG T., CLTM, FASET
### SCHEDULE OF EVENTS

**SATURDAY, AUGUST 1**

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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>8:00 – 9:00 a.m.</td>
<td><strong>MEG Mini-Course</strong>&lt;br&gt;Kirsten Yelvington, R. EEG T., CLTM</td>
</tr>
<tr>
<td>9:00 – 10:00 a.m.</td>
<td><strong>Plenary Session</strong>&lt;br&gt;Kathleen Mears Memorial Lecture&lt;br&gt;“Stay Relevant”&lt;br&gt;Janice Walbert, CAE, R. EEG/EP T., FASET, FACNS, BA&lt;br&gt;<strong>Course Track</strong>&lt;br&gt;The Basics of Magnetoencephalography (MEG): An Overview&lt;br&gt;Susan Bowyer, PhD&lt;br&gt;Selective Rhizotomy in Children&lt;br&gt;Kristina Young, CNIM, BS&lt;br&gt;Stuart Hoffman, DO&lt;br&gt;Localizing and Lateralizing Features of Pediatric Epileptic Seizures&lt;br&gt;Tobias Loddenkemper, MD&lt;br&gt;The Use of EEG in the Critical Care Setting&lt;br&gt;Salim Benbadis, MD</td>
</tr>
<tr>
<td>10:00 – 10:20 a.m.</td>
<td>Break</td>
</tr>
<tr>
<td>10:20 – 11:15 a.m.</td>
<td><strong>Course Track</strong>&lt;br&gt;Meet MEG: How to Perform the MEG Scan&lt;br&gt;Hisako Fujiwara, R. EEG/EP T., CLTM&lt;br&gt;<strong>Course Track</strong>&lt;br&gt;Pelvic Monitoring During Osseous &amp; Visceral Surgery&lt;br&gt;Adam Doan, DC, DABNM&lt;br&gt;Updates in Neonatal EEG&lt;br&gt;Eli Mizrahi, MD&lt;br&gt;Writing Technical Reports for ICU EEG&lt;br&gt;Stephen Schuele, MD, MPH&lt;br&gt;<strong>Course Track</strong>&lt;br&gt;How to be Profitable for the Institution: MEG Managers Role&lt;br&gt;J.P. Lowe, R. EEG/EP T., CNIM, CLTM&lt;br&gt;<strong>Course Track</strong>&lt;br&gt;Microvascular Decompression in Hemifacial Spasm: A University of Pittsburgh Experience&lt;br&gt;Jeff Balzer, PhD, DABNM, FASNM&lt;br&gt;Pediatric Non-Epileptic Events&lt;br&gt;Jun Park, MD&lt;br&gt;Inter-professional Collaboration in the ICU&lt;br&gt;Mona Stecker, DNP, NP-BC, CNRN&lt;br&gt;<strong>Course Track</strong>&lt;br&gt;The MEG Results: How the Physician Utilizes the MEG Results&lt;br&gt;Jerry Shih, MD</td>
</tr>
<tr>
<td>11:15 a.m. – noon</td>
<td>Interest Section Lunch</td>
</tr>
<tr>
<td>Noon – 1:00 p.m.</td>
<td>Plenary Session&lt;br&gt;2015 ASET Symposium&lt;br&gt;“Preventing Skin Breakdown and Electrode Injuries”</td>
</tr>
<tr>
<td>1:00 – 1:45 p.m.</td>
<td><strong>Course Track</strong>&lt;br&gt;Neuromonitoring Literature: The Good, The Bad &amp; The Ugly&lt;br&gt;Richard Vogel, PhD, DABNM&lt;br&gt;EEG Correlations with Genetic Disorders that Include Seizures&lt;br&gt;Elia Pestana-Knight, MD&lt;br&gt;Post Anoxic Status in the ICU&lt;br&gt;Camilo Garcia, MD</td>
</tr>
<tr>
<td>1:45 – 2:30 p.m.</td>
<td><strong>Course Track</strong>&lt;br&gt;Cortical Mapping &amp; Monitoring in the OR: Best Practices on Different Equipment&lt;br&gt;Bryan Wilent, PhD, DABNM&lt;br&gt;Pediatric Case Presentations&lt;br&gt;Cinthia Jenkinson, R. EEG T.&lt;br&gt;Update on ECS Recording&lt;br&gt;Asim Shahid, MD</td>
</tr>
<tr>
<td>2:30 – 4:00 p.m.</td>
<td>Plenary Session&lt;br&gt;2015 ASET Symposium&lt;br&gt;“Preventing Skin Breakdown and Electrode Injuries”</td>
</tr>
</tbody>
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PLENARY SESSIONS

THURSDAY, JULY 30, 2015
LEWIS KULL MEMORIAL KEYNOTE ADDRESS
“DARPA’s Advances in Brain Function Research”
Justin Sanchez, PhD

DARPA stands for “Defense Advanced Research Projects” and is a branch of the military which works on projects to create futuristic tools for soldiers. The innovations they create sound like science fiction imaginations but they are real! Brain function research plays an essential role for the development of programs such as “RAM” – Restoring Active Memory to help soldiers with Traumatic Brain Injury regain memory function, and “Neuro-Fast” which delves into how the brain works and the brain computer interface.

Biographical Sketch
Dr. Justin Sanchez joined DARPA as a program manager in 2013 to explore neurotechnology, brain science and systems neurobiology. He has developed new methods for studying brain function which incorporate local field potentials and electrocorticography from the cerebral cortex and deep brain structures of the motor and limbic systems.

Before coming to DARPA, Dr. Sanchez was an Associate Professor of Biomedical Engineering and Neuroscience at the University of Miami, and a faculty member of the Miami Project to Cure Paralysis. He directed the Neuroprosthetics Research Group, where he oversaw development of neural-interface medical treatments and neurotechnology for treating paralysis and stroke, and for deep brain stimulation for movement disorders, such as Tourette’s syndrome.

He has published more than 75 peer-reviewed papers, holds seven patents in neuroprosthetic design and authored a book on the design of brain-machine interfaces. He has served as a reviewer for the NIH Neurotechnology Study Section, DoD’s Spinal Cord Injury Research Program and the Wellcome Trust, and as an associate editor of multiple journals of biomedical engineering and neurophysiology.

Dr. Sanchez holds Doctor of Philosophy and Master of Engineering degrees in Biomedical Engineering, and a Bachelor of Science degree in Engineering Science, all from the University of Florida.

The Keynote Address is sponsored in perpetuity by ABRET, in memory of Lewis Kull.

FRIDAY, JULY 31, 2015
ELLEN GRASS LECTURE
“Technology in Neurophysiology: History, Mystery and the Future”
Mark Stecker, MD, PhD

Neurophysiology has been practiced for thousands of years and has grown and changed along with our understanding of physics and chemistry. Beginning with the electric fish and pieces of amber, the field evolved slowly. However, with recent advances in materials, computer technology, micro-fabrication and optics, new developments are occurring at an amazing rate. This evolution will be briefly reviewed from the perspective of the electrode. With the historical background, the fundamental properties of electrodes will be reviewed as they apply to both recording and stimulation as the electrode is the essential element of every neurophysiologic study, whether it be EEG, EMG, IONM, or Long Term Monitoring. All of these fields have different requirements for optimal electrodes, and understanding how different electrodes affect neurophysiologic testing is critical to the interpretation of studies. It is also critical to developing new types of electrodes. Dr. Stecker will review recent developments in electrode design, including microelectrodes, optical methods and newer magnetic based probes of electrical activity. He will also reflect upon the past and the future of our recording systems.

Biographical Sketch
After completing his PhD in Physics at University of Pennsylvania, Dr. Stecker attended Medical School at the Harvard-MIT Program. He did his residency in neurology at the hospital of the University of Pennsylvania. He completed his residency in neurology and a neuroscience/epilepsy fellowship at the University of Pennsylvania hospital and then was an attending Physician at Penn for 10 years before moving to Geisinger Medical Center. While at Penn, he started the intra-operative monitoring program in the neurology department. At Geisinger he ran the EEG lab and intra-operative monitoring programs as well as the epilepsy program. He subsequently moved to Marshall University/Cabell Huntington Hospital where he directed the neurophysiology lab and began the stroke program. During this time he served as chair of the curriculum committee as well as assistant chair for neurology. He helped found the Mid-Atlantic and Tristate Chapters of ASET. He is now chairman of neuroscience at Winthrop University Hospital in Mineola.
PLenary sessionS continued

SATURDAY, AUGUST 1, 2015

KATHLEEN MEARS MEMORIAL LECTURE

“Stay Relevant”
Janice Walbert, CAE, R. EEG/EP T., FASET, FACNS, BA

Did your career just happen to you or did you have a part in making it happen? Are you focused, goal oriented and moving in the right direction, or wish you were? This session will hone in on some ways we can move forward with a renewed sense of purpose that can make a difference in the way we think about our career and our life in general.

As a former neurodiagnostics educator and current executive director of ABRET: Neurodiagnostic Credentialing and Accreditation, I want you to know that credentials matter. Join this interactive session to identify obstacles and discuss removing barriers. Give your input on where we are going as a profession and about professional development, while considering what is important as we all try to stay relevant.

Biographical Sketch
Janice was the director of the School of EN Technology in Springfield, Illinois for 17 years. She served on the ASET Board of Trustees, was chair of the ASET Academic Advisory Council for five years and participated as a site visitor for the CoA-NDT. She served on the ABRET Board of Directors and was ABRET President. For the last 13 years she has been the Executive Director of ABRET as well as the American Board of Clinical Neurophysiology. Janice has a BA in Adult Education and is a Certified Association Executive.

2015 ASET SYMPOSIUM

“Preventing Skin Breakdown and Electrode Injuries”
Carol Price, RN, MSN, CWS, DAPWCA
Sharyn Katz, R. EEG T.
Cinthia Jenkinson, R. EEG T.
Brett Netherton, CNIM, MS

This is the hot topic nationwide for the neurodiagnostic community. Whether you work in clinical EEG or in IONM, electrode injuries can occur. Many neurophysiology labs have begun collecting data on the incidence of skin breakdown and injuries related to electrodes. A panel of experts will address various aspects of this issue of injuries from pressure ulcers to electrically induced lesions. Panelists include a wound care nurse who is part of a team investigating these injuries at Children’s Hospital of Colorado, technologists who are working on the ASET Skin Integrity Task Force, and Brett Netherton, who has published articles about electrode injuries in the operating room. The goal of this group is to come up with “best practices” for reducing skin injury. They will share their findings with the audience, followed by audience discussion.

POSTER SESSIONS

THURSDAY, JULY 30
10:15 - 11:00 a.m.;
3:00 - 3:45 p.m.

FRIDAY, JULY 31
10:00 - 10:55 a.m.

~ Comparison of Transcranial Electrical Motor Evoked Potentials (TcMEPs) from Different Hand Recording Montages
Ricardo Bravo, R. EP T., CNIM; Laurence McKinley, MD; Peter Karzmark, PhD, ABPP; Jaime Lopez, MD

~ Case Study: Cat Scratch Leads to Status Epilepticus
Marti Sherrill, R. EEG/EP T., CNIM, CLTM, BA

~ Optimize Seizure Memory, Awareness and Speech Response Education for Better Compliance
Susan Feravich, R. EEG T., CLTM, BS; Crystal Keller, R. EEG T., CLTM, BA; Deborah LaBelle-Scarfo, BSN, RN, CNRN; Dawn Mc Neil, AAS; Jill Piper, R. EEG T., BS

~ Cardiac Asystole During EMU EEG Monitoring
Guang Ren, R. EEG/EP T., CLTM

~ Quality of Recordings and Patient Safety: Key Issues for Lab EEG Accreditation
Jie Zhang, R. EEG/EP T., CNIM, CLTM, FASET, BS; Janice Walbert, R. EEG/EP T., FASET, FACNS, CAE, BA

~ Vasovagal Syncope
Jodie Lisauckis, BS

~ ABRET Exam Development and Scoring
Eric Padilla, R. EEG/EP T., CNIM, CLTM, BS; Patricia Trudeau, R. EEG T., CLTM, FASET

~ The Skin Breakdown Enigma
Marshall Young, R. EEG T., BS

~ Quality Assurance in Intraoperative Monitoring (IONM): Self Reporting of IONM Data Changes
Craig Caviness, DC, CNIM; Stephen Fried, MD

~ Anti-NMDAR Encephalitis: A Case Review of a Brain on Fire
Vicki L. Sexton, BS, R. EEG/EP T., CLTM, R.NCS.T., CNCT; Ryan R. Lau, MS, R. EEG/EP T., CNIM, CLTM, FASET

~ Controlling Skin Breakdown in a Level IV Epilepsy Monitoring Unit
Gloria Galindo-Janz, BSEET, R. EEG T., Melissa Rotter, R. EEG T., Thanh Tran, R. EEG T., Tsige Washun, R. EEG T., Christina Luksich, R. EEG T.

~ Initiative to Prevent EEG Lead Related Pressure Ulcers
Maria Gabriel, CMET, R. EEG T., MBA; Carol Atkinson, MS, PPCNP, BC, CNRN; Sandy Quigley, MSN, CWOCN, CPNP-PC; Susan Hamilton, RN, MS, CCRN, CWOCN; Sheryl Manganaro, R. EEG T., BS; Maria DeBurgo, R. EEG T.; Jack Connelly, R. EEG T., BSIT; Victoria Fruh, BS, MPH

ASET poster sessions visually present information on a variety of topics—from an original study or research, to evaluation of a method, device or protocol, to offering a report on an uncommon clinical case. Poster authors will be on hand to discuss their findings or data with attendees in an informal venue.
LEWIS KULL MEMORIAL KEYNOTE ADDRESS
“DARPA’s Advances in Brain Function Research”
Justin Sanchez, PhD
DARPA stands for “Defense Advanced Research Projects” and is a branch of the military which works on projects to create futuristic tools for soldiers. The innovations they create sound like science fiction imaginings but they are real. Brain research plays an essential role for the development of programs that are designed to improve neurological function for soldiers in the field and recovering from injuries. Dr. Sanchez will describe some of the amazing projects that he oversees.

From EEG Tech to Entrepreneur Seven Easy Steps
Simon Griffin
Have you always wanted to go out on your own to start a neurodiagnostics business, but didn’t know where to start? You’ve got the clinical skills, but what about the business and legal implications, contracting, staffing, and reimbursement? How do you get paid and who do you have to pay? What about the technical side of the equipment? The connectivity? The technology is here to make it easy. In the EEG Entrepreneur presentation, we discuss the ins and outs of cutting loose from the hospital and starting your own business. Own your own full service EEG business, and do studies for an independent service provider, or simply review studies from the comfort of your own home.

Clinical Applications of QEEG and sLORETA Analysis
David Cantor, PhD
A vast array of clinical research has been conducted on the use of Q-EEG. There is growing validity and reliability for Q-EEG in a variety of clinical applications. It is used in confirmatory diagnostic procedures in the field of neurology and cognitive rehabilitative medicine. This abstract will provide an overview of clinical applications for Q-EEG and sLORETA (standardized Low Resolution Electromagnetic Tomography).

Vestibular Evoked Myogenic Potentials (VEMPs)
Eletherios Papathanasiou, PhD, FEAN
Vestibular evoked myogenic potentials (VEMPs) is a relatively new method of recording function (and dysfunction) from the vestibular nervous system, but is quickly gaining wide acceptance on a global scale. Air-conducted sound can be used to stimulate the sacculus of the inner ear, and this is thought to be possible due to the close proximity of this vestibular end organ to the stapes footplate. Use of this short duration and reproducebile stimulus allows one to record high amplitude responses from either the steneodomastoid muscle (vocal VEMP's or cVEMP's) or from the inferior oblique muscle (ocular VEMPS or oVEMP's). Clinical applications include the diagnosis of Superior Semicircular Canal Dehiscence and other conditions such as differentiating Vestibular Migraine from Meniere's Disease, and also indicating the presence of conditions that specifically involve either the superior and/or inferior vestibular nerve in the presence of normal caloric responses.

The Other Side of the Electrodes
Anna Marie Beck, R. EEG T.
A technologist with over 15 years experience discovered that her daughter had epilepsy when she was demonstrating the use of EEG to a group of students. She then had to watch different technologists work with her daughter to complete testing in EEG, EMU, MRI, PET and SPECT studies. Her observations led her to change the way she thinks about how to deal with parents. She will use an engaging and interactive format to discuss the role of the technologist in history taking and effective communication with parents.

Semiologic and Electrical Patterns of Frontal Lobe Seizures
Lixia Gao R. EEG T., MS
Frontal lobe seizures are the second most common seizures seen in clinic with the first being temporal lobe seizures. However, it is very challenging to diagnose and localize frontal lobe seizures. We reviewed the semiologic and electrical features of frontal lobe seizures alongside with the anatomic organization of frontal lobe, and studied a sample patients with frontal lobe epilepsy along with their pre-surgical evaluation tests and surgical findings in our Epileptic Monitoring Unit (EMU) at Boston Children's Hospital. We found that even though Magnetic Resonance Imaging (MRI), Positron Emission Tomography (PET), Single Photon Emission Computed Tomography (SPECT) and other new techniques are effective tools, clinical semiology and electrical features are still essential for diagnosis of frontal lobe seizures.

ABRET Exam Development and Scoring
Patricia Trudeau, R. EEG T., CLTM, FAoBE
ABRET: Neurodiagnostic Credentialing and Accreditation (ABRET) is the credentialing organization for the field of neurodiagnostic technology and has always embraced change and innovation within the testing industry; ABRET devotes significant time and resources to ensure that the processes used for technologist certification are of high quality, justifiable, and defensible. The importance of engaging stakeholders in the process of developing and scoring the board exams is recognized by ABRET. This development process is an inclusive one, and reflects the current practice of Neurodiagnostics. By sharing the details of how this process unfolds, ABRET hopes to address and clarify common assumptions and misconceptions. ABRET acknowledges that the examination process can be intense and laborious at times; but the end objective is well worth the journey.

Utilizing Longer Intramuscular Needle Pair Electrodes: What Are We Really Missing In Our Intraoperative Muscle Recordings?
Faisal Jahangiri, MD, CNIM, DABNM, FASNM
This study illustrates the benefit of using longer, 37mm and 50 mm intramuscular needle pair electrodes for recording TcMEPs in the rectus femoris muscle during various surgeries in obese patients, as opposed to the standard 13 mm sub-dermal needle electrode, which can miss EMG due to adipose tissue. The longer needle pair electrodes increased accuracy and reliability of the TcMEP recording at lower stimulation thresholds.

Concepts, Challenges And Strategies In Obtaining Optimal IONM Recordings
Merieme Bensalem-Owen, MD, FANA, FACNS
The motivation for this subject matter is the need to provide optimal, reliable intraoperative recordings, despite the challenge that surround physiological factors, anatomical variations, and body habitus. This presentation attempts to provide valuable and useful information based on research to acquire consistent, reproducible recordings, intraoperative, while taking into account the variables that are not in the realm of technologist control. The approach to the analysis and information presented was to evaluate multiple data presented over a variety of patients as well as procedures, and correlating the data with logical and methodical academia resources in order to present the theoretical reasoning as to how and why intraoperative recordings are in most cases superior. The conclusion established by the data presented, as well as theoretical exploration, support the valuable utilization of intramuscular recordings during intraoperative monitoring.

Epilepsy Co-Morbidities
Nikesh Ardesna, MD
Many patients with epilepsy will develop other medical conditions that complicate their care and pose risks that can be life-threatening unless recognized and treated. It is important for technologists to understand the implications for our patients. Dr. Ardesna will explain these complications and our role in helping patients deal with them.

Cannabinoids and the Treatment of Epilepsy
Jason Sebesto, DO
Is there validity to the claim that medical marijuana reduces the incidence of seizures in epilepsy? This has been a news-worthy controversial issue in recent years. With increased interest and use, what are the emerging facts about the effectiveness of cannabis to treat seizures? Who should be on a cannabis regimen and what are the complications? Dr. Sebesto will provide the answers to these questions.

LTM Journeys: From First Admission to Final Outcome
Jerry Shih, MD
Dr. Shih joins us from the Mayo Clinic in Jacksonville, Florida, with a fascinating collection of case studies that challenge the technologist to think outside the box. Some patients will be surgical candidates and others will not. Some patients will go on to seek alternative treatments. This will be an interactive session where you can decide where the epileptic focus is, and if surgery is appropriate.

An Overview of the Pre-Surgical Workup with Video EEG and EMU Safety
Meriem Bensalem-Owen, MD, FANA, FACNS
Coming to us from the University of Kentucky, Dr. Bensalem-Owen is known for her innovative approach to treating epilepsy, including Responsive Neurostimulation (RNS) devices. She will discuss the pre-surgical work-up and how to limit risk of patient injury during this vulnerable time.

Uncommon Seizures and Non-Epileptic Events in the EMU
Susan Herman, MD
This presentation will include EEG and video samples of unusual clinical events: some are seizures and some are non-epileptic. See if you can determine which is which. Dr. Susan Herman comes to us from Beth Israel Deaconess Hospital in Boston, assistant professor at Harvard Medical School and recent past-president of the American Clinical Neurophysiology Society.
NCS KEY TOPICS COURSE TRACK

Stimulator, Amplifiers, Filters and All that Stuff we Love to Hate
Jim Lewis, R.N.C.S.T., CNCT
To get the ideal NCS results, we need to understand the way the components of the EMG recording system work. Fine tuning settings can make the EMG instrument “sing” and yield better results! Jim Lewis is a premier NCS educator and he will make this topic very interesting and relevant.

Cervical Radiculopathy, Brachial Plexopathy or Mononeuropathy
Jerry Morris, R.N.C.S.T., CNCT, MS
Jerry’s lectures are always fun and get rave reviews! He will provide an overview of specific neuromuscular injuries, including anatomy involved, typical symptoms and the best approach to completing the nerve conduction work-up to confirm the diagnosis.

Numbness, Pain and Weakness: What Does It All Mean?
Ann Little, MD; Teresa Spiegelberg, R. EEG T., CNCT
This physician and technologist team work together at the University of Michigan Health Center in Ann Arbor. They will present a comprehensive overview of the work-up for the symptoms of numbness, pain and weakness, including history-taking, differential diagnosis and NCS/EMG techniques for assessment of possible causes for these common patient complaints.

Hands on NCS Workshop
All NCS Faculty
Three workstations will be provided, with faculty from the day’s lectures serving as your guides and facilitators. You will have the opportunity to watch demonstrations, practice skills and ask for technical tips during the hands-on NCS workshop. One station will be set-up for nerve ultrasound demonstration, and two will be set up for NCS.

TRANSCRANIAL DOPPLER MINI-COURSE TRACK

Overview of Trans-cranial Doppler: Theory and Techniques
Donalee Davis, CNRN
Donalee Davis is nationally recognized as an expert trainer for TCD. She will provide a solid background on TCD techniques and the anatomy of the blood vessels serving the brain during this lecture. Since neurodiagnostic labs are increasingly asked to provide this service, it is a good idea to be prepared by participating in this course!

TCD Hands-on Workshop
Donalee Davis, CNRN
The hands-on portion of this TCD mini-course will include a demonstration of TCD techniques with helpful hints about the landmarks to use to locate the blood vessels to be tested, and other essentials of this procedure. Participants will have the opportunity to work with the equipment.

CPT CODING MINI-COURSE TRACK

CPT Coding Review: Neurodiagnostic Updates
Kathryn Hansen, R. EEG T., BS, CPC, CPMA
Kathryn is back by popular demand! She serves as one of ASET’s special interest section experts on CPT coding and she is a credentialed expert on this topic. She serves as faculty with the Kentucky Community and Technical College, teaching practice management and advanced billing and coding. In this session, she will provide an update on CPT codes for neurodiagnostic procedures.

ICD 10 Updates
Kathryn Hansen, R. EEG T., BS, CPC, CPMA
ICD 10 is the latest version of the International Classification of Diseases. In order to obtain maximum reimbursement with no risk of fines for incorrect billing, it is essential to have a good understanding of acceptable diagnostic codes.

Becoming a Coding Expert
Kathryn Hansen, R. EEG T., BS, CPC, CPMA
You will bring valuable skills and knowledge back to your workplace when you participate in this lecture. Billing correctly the first time leads to increased revenue and reduces the delay for payment for services!

CPT Problem Cases: Q & A
Kathryn Hansen, R. EEG T., BS, CPC, CPMA
Here is where you get to bring in your problem cases for review and discussion. If you have experienced claim denials that you find perplexing, you can share your notes with Kathryn and she will help you resolve the issue and provide advice for the future. Don’t forget to bring your most troubling case with you!

FRIDAY, JULY 31, 2015

PLENARY SESSIONS & PLATFORM PRESENTATIONS TRACK

ELLEN GRASS LECTURE
Technology in Neurophysiology: History, Mystery and the Future
Mark Stecker, MD, PhD
The electrode is the essential element of every neurophysiologic study whether it be EEG, EMG, IONM, or Long Term Monitoring. Dr. Stecker will discuss the evolution of neurophysiology from the perspective of the electrode, including the historical background and the fundamental properties of electrodes. He also will review recent developments in electrode design, including microelectrodes, optical methods and newer magnetic based probes of electrical activity.

Developments in Credentialing and Accreditation
Diane Liesen, R. EEG/EP T., CLTM, MA
ABRET: Neurodiagnostic Credentialing & Accreditation has a 50 year history of credentialing in neurodiagnostics. This presentation will highlight recent developments and announce some future projects. ABRET offers five credentials, R. EEG T., R. EP T., CNIM®, CLTM®, CAP, and three laboratory accreditation programs, LAB-EEG, LAB-NIOM, and LAB-LTM. This presentation will discuss:
• the ongoing evaluation process with regard to changes in the field and advances in technology;
• eligibility requirements;
• updates in laboratory accreditation;
• recertification;
• digital badges
ABRET continues to seek ways to improve the credentialing process and to encourage excellence in neurodiagnostics.

Seizures and Epilepsy in Popular Culture
Emma Bryden-Brown, B. Med Sci
It has been claimed that popular culture, social media and on-screen dramatization of seizures perpetuates the stigma of epilepsy, and propels the myths and misconceptions surrounding seizures. An attempt is made to explore this notion, and to break down “seizures” in popular media, such as in television and movies, in order to assess their accuracy and portrayal in terms of clinical features and intervention. Are these events accurate? Is the treatment and diagnosis of seizures in these clips feasible? How does the portrayal of epilepsy affect the viewing population’s attitude towards the disease? We explore the use and inclusion of seizures and epilepsy as delivered to our living rooms, and the effect of dramatic stereotypes on the perception of seizures and epilepsy in society.

Postural Orthostatic Tachycardia Syndrome: A Collection of Symptoms, Not a Disease
Keith Davidson, R. EP T., RPSGT, BA
The patient has 15 year history of brief unexplained episodes. The episodes consist of a slight lateral movement of the waist and hip area occurring multiple times per day. The patient’s diagnosis prior to EMU monitoring was Psychogenic Non-epileptic Seizure. The patient underwent monitoring in the EMU. Multiple events were captured during the monitoring. The EEG demonstrated brief left central seizures. After failure of successful control with medications the patient underwent Phase II monitoring. The patient underwent grid placement and mapping. Multiple typical events were recorded. The mapping revealed the onset was in her speech area. The grids were removed without any resection. Four years later the patient had grids and strips placed on the left. The plan was to determine the best location for strip placement for the NeuroPace. Monitoring continued and a typical seizure was finally recorded. The NeuroPace was placed. In hopes of seizure reduction, the patient is reporting a reduction of at least half and an improved quality of life. She has not experienced anymore PNES.

Veterans Health Administration: VA Epilepsy Centers of Excellence
Amy Childers, MA; Ronda Tschumper, R. EEG/EP T., CLTM
The VA Epilepsy Centers of Excellence were created in 2008 as a response to the increasing number of US military service members with traumatic brain injury and epilepsy. Our organization is comprised of a network of comprehensive epilepsy centers that include 16 core sites and approximately 75 consortium sites. The ECEx offers a range of services in both the outpatient and inpatient settings modeled in a patient centric environment. Workgroups are also offered to promote collaboration on innovative ideas and improvements. The EEG Technologist workgroup focuses on cutting edge technology, registries, and accreditations. Case studies are discussed as a way to educate EEG Technologists on a variety of methods, diagnoses, and outcomes. The goal of our organization is to create and share the resources with other hospitals and organizations that can improve EEG care of patients with epilepsy.

• Objective #1: To introduce our organization and our unique hub and spoke model of Comprehensive Epilepsy Centers
• Objective #2: To discuss the goals and progress of the EEG Technologist workgroup.

Mixed Signals
Susan Hollar, R. EEG T., BS
The patient has 15 year history of brief unexplained episodes. The episodes consist of a slight lateral movement of the waist and hip area occurring multiple times per day. The patient’s diagnosis prior to EMU monitoring was Psychogenic Non-epileptic Seizure. The patient underwent monitoring in the EMU. Multiple events were captured during the monitoring. The EEG demonstrated brief left central seizures. After failure of successful control with medications the patient underwent Phase II monitoring. The patient underwent grid placement and mapping. Multiple typical events were recorded. The mapping revealed the onset was in her speech area. The grids were removed without any resection. Four years later the patient had grids and strips placed on the left. The plan was to determine the best location for strip placement for the NeuroPace. Monitoring continued and a typical seizure was finally recorded. The NeuroPace was placed. In hopes of seizure reduction, the patient is reporting a reduction of at least half and an improved quality of life. She has not experienced anymore PNES.
An increased risk of seizure activity can be seen in the neonatal population when injuries occur from birth. Commonly noted risk factors within this group include traumatic head injury and anoxic insult. Recently, Continuous Long Term Monitoring (CLTM) has proven to be a beneficial tool and strong contribution to the excellent standard of care provided by the NICU. CLTM provides the ability to detect seizure activity at its earliest onset and allows for rapid response and treatment. Lisa’s presentation will analyze 20 cases of high risk neonates and will include patient history/risk factors, EEG results and treatment plans based off EEG finding. Overall, her research will provide EEG technologists valuable information regarding neonate seizures and pattern recognition.

Case Presentations of Dizziness and Talking Funny
Peta Davidson, R. EEG/EP T., BS
A few years ago, I gave a presentation on Epilepsy in the Elderly. This presentation covered the odd and unusual presentations of seizures in elderly patients. I have since encountered multiple elderly patients with unique presentations of seizures. Examples include: A 65 year old female with presentation of dizziness discovered to be brief generalized seizures; a 63 year old male brought to the emergency room when he wouldn’t quit talking funny; A 95 year old female presented to the hospital after staff at her assisted living home could not console her distress at not being able to be pregnant. Seizures in the elderly may present oddly. An early EEG can help treatment and improve quality of life.

Licensure, If Not Now, When?
Cathy Boldery, R. EEG/EP T., CNIM, CCT, RPST, FASET; Kathryn Hansen, R. EEG T., CPC, CPMA, BS; Craig Schweitzer, CNIM, BA
One of the strategic goals of the 2012-2015 Strategic Plan is the enactment of licensure legislation for Neurodiagnostic professionals in one or more states by 2015. To achieve this goal ASET is working with chapters, regional and state societies to introduce and pass licensure bills to protect neurodiagnostic technologist’s scope of practice and provide the best care for our patients. We will have a panel discussion with those who have been on the front lines of this effort and review the progress we have made so far and take a look at what the future holds.

IONM UPDATES COURSE TRACK

SSEP Changes in Carotid Endarterectomy: Correlation to Stroke
Jeff Balzer, PhD, DABNM, FASNM
Jeff Balzer is a favorite speaker at ASET conferences! We all think of scalp EEG when we think of monitoring during carotid endarterectomy surgery, but SSEPs have been found to provide useful information as well. Dr. Balzer will explain how to use SSEPs to monitor blood flow to the brain and discuss typical changes that occur when a stroke is imminent.

Troubleshooting in the OR: Is it Technical or Clinical?
Mark Helderman, R. EEG/EP T., CNIM
We all agree that excellent troubleshooting in the OR is a vital skill for IOVN when seconds count! The first step is to determine whether the problem comes from the equipment, the instrument settings, electrodes or other components, or if the problem is clinical related to the patient’s condition, injury, anesthesia or positioning. This lecture will help sort out clues so you will be adept at troubleshooting.

Challenging Influences in Cranionoty: BAEP Pre-Existing Conditions, Artificial Influences and Ischemia
Rebecca Clark-Bash, R. EEG/EP T., CNIM, CLTM, FASNM
For some IOVN practitioners, BAEPs may not be the most frequently required modality, so when you do have to use them during a case, you will be more confident if you know as much as possible about how BAEPs react to changes in blood flow, anesthesia and other influencing factors. Rebecca will discuss all of the factors to consider when recording BAEPs during cranial surgeries.

Career Development and Professionalism in IOVN
Bernard Cohen, PhD, FASNM, FACS; Brett Netherton, CNIM, MS
These two speakers paired up last year to discuss the ways in which IOVN professionals can enhance their professional status. Based on the excellent reviews and positive comments, we are bringing them back this year! They promise a lively and interactive session to help you envision your professional growth in the OR and beyond.

EVDK POTENTIALS COURSE TRACK

Evoked Potentials 101: From the Clinical to the Research
Denise Bates, R. EP T., CNIM, MBA/HCIM
Before delving into modality specific techniques, this presentation will provide an overview of evoked potential instrumentation and how the changing parameters will affect waveforms. This foundation is helpful for both clinical and intra-operative evoked potentials.

Visual Evoked Potentials
Larry Head, R. EEG/EP T., CNIM, RPSGT, RST, FASET, BAS
Larry is the VIP of the VEP! The ASET Evoked Potential course would not be complete without this lecture. He will go over the visual pathway anatomy, stimulus settings and recording techniques and he will make it all fun and informative.

Auditory Pathway from Bottom to Top
Mark Ryland, AuD, R. EP T., R.NCS.T., RPSGT
Once again we have the guru of BAEPs on hand to talk about the anatomy and structure of the hearing pathway, the generators of BAEP waveforms and recording techniques and parameters. Mark has received his doctorate in audiological science as well as his R. EP T credential, is a full time educator at Cuyahoga Community College, and is a very talented teacher.

Somatosensory Evoked Potentials
Clare Gale, R. EEG/EP T., CNIM
Clare is very well known in the IOVN community and is a frequent speaker at national and regional meetings. She has many years’ experience recording SSEPs, mostly in the OR setting, so her overview of SSEPs: anatomy, instrumentation and location of stim sites will be very helpful to both clinical and intra-operative applications.

Hands-on EP Workshop: VEPS, BAEPs, SSEPs
All EP Faculty
There will be three hands-on work stations, one for each modality. Participants are free to move about between the stations that interest them the most to get an opportunity to practice hands-on techniques for evoked potentials.

EEG AND CLINICAL CORRELATIONS COURSE TRACK

The Outpatient Work-up for Epilepsy
Cheton Malpe, MD
Dr. Malpe joins us from the Cleveland Clinic Weston, FL campus. His discussion will focus on how a patient goes through a full work-up to rule out epilepsy as an outpatient. He will include an overview of the usefulness of EEG, how often repeat studies should be done, other appropriate tests and the value of coordinating EEG follow-up with treatment plans and the medication regimen.

EEG Snapshots
Nikesh Ardesha, MD
This session promises to be a fun event for all, featuring a wide variety of EEG samples and case studies with audience participation. Dr. Ardesha is an enthusiastic presenter and his support for technologists shines through when he discusses EEG!

The Myths and Mysteries of EEG Activations
Patricia Trudeau, R. EEG T., CLTM, FASET
Pat has many years’ experience working at the Marshfield Clinic in Wisconsin and has been active with ABRET, both as an examiner and member of the EEG Lab Accreditation Board. After reviewing EEGs for many years, she has discovered that there are many myths and misconceptions about activation procedures: how they should be done, contraindications and what can happen when not done properly. She will help us sort out the right and wrong way to do photic stimulation, sleep deprivation and hyperventilation.

NMDA Receptor Encephalitis EEG and Clinical Correlations
Vicki Sexton, R. EEG/EP T., R.NCS.T., CNCT, CLTM
This disease became nationally recognized due to the best-selling book “Brain On Fire”, the non-fiction story written by a journalist who survived this brain infection. The clinical manifestations are often mistaken for a psychiatric disorder and you may be the first to encounter a patient during the EEG, prior to diagnosis. It is important for technologists to understand the disease state and EEG findings in this fascinating neurological illness.

Ambulatory EEG Revisited: What’s New?
Connie Kubiak, R. EEG/EP T., CNIM, CLTM
Ambulatory EEG has changed so much in recent years! Updated equipment allows for longer recordings without changing batteries, and systems now include video EEG. Technologists may visit the patient’s home for set-up, and their role has expanded with responsibility for initial review and editing for EEG interpretation. Find out more about what is new in the world of ambulatory EEG!

Over-Reading EEGs
Selin Benbadis, MD
Dr. Benbadis is passionate about knowing the difference between legitimate abnormal EEG findings and normal variants which can be misinterpreted as abnormal. He has an amazing collection of EEG samples that will illustrate how confusing patterns can be and how to correctly identify normal waveforms.
Pelvic Monitoring During Osseous & Visceral Surgery
Adam Doan, DC, DABNM
Proper pelvic monitoring with IONM prevents a wide array of post-operative complications but it must be done properly to be effective. Dr. Adam Doan will provide an overview of monitoring techniques and case studies to prove the value of pelvic monitoring.

Microvascular Decompression in Hemifacial Spasm: A University of Pittsburgh Experience
Jeff Baizer, PhD, DABNM, FASN
Dr. Baizer has many years’ experience providing intraoperative neuromonitoring at the University of Pittsburgh. He has seen some very interesting cases of hemifacial spasm with microvascular compression. He will share a variety of cases and provide some helpful hints for these complex monitoring sessions.

Neuromonitoring Literature: The Good, The Bad & the Ugly
Richard Vogel, PhD, DABNM
There are so many articles published on IONM from so many sources! You can find literature to defend any viewpoint regarding techniques, procedures and outcomes. But how do you sort this information out to provide the most realistic and accurate perspective? This presentation will provide some insight and opportunity for lively discussion.

Cortical Mapping & Monitoring in the OR: Best Practices on Different Equipment
Bryan Wilent PhD, DABNM
In today’s intraoperative monitoring environment we have many choices when it comes to mapping various cortical functions. Which techniques and equipment choices will yield the best results? This lecture will provide an overview of the tools that are available to IONM practitioners.

EEG Correlations with Genetic Disorders that Include Seizures
Elia Pestana-Knight, MD
More research is being done every day to help us understand the role that genetics play in the development of childhood seizures. Dr. Pestana will provide an overview of these syndromes and disorders which may include a variety of seizures, including intractable epilepsy in the pediatric patient.

Pediatric Case Presentations
Cynthia Jenkinson, R. EEG T.
Cynthia comes to us from All Children’s Hospital in St. Petersburg, Florida. She and her attending physicians have collected a series of fascinating pediatric EEG case studies to share with us. Cases will include routine clinical EEG, ICU and continuous EEG recordings.

Electro-cerebral Silence Recordings continue to play a role in the determination of brain death. With the use of digital EEG, there are new questions about the technical aspects of these EEG recordings. There are also other studies which can be used to document the absence of brain function. Dr. Shahid will provide an overview of EEG and other assessment options.

I attended my first ASET Annual Conference in 2012. I must say that I was just like a kid at Disney. To listen to the lectures and to speak one on one with so many Neurodiagnostic Technologists I was just in awe. I cannot wait to come back again!

- Linda K. Lanier
**NEW IN 2015**

**CONFERENCE MOBILE APP**

To enhance your conference experience we are providing a new mobile conference app, which you can download to your smartphone or mobile device. The conference app will give you the freedom to engage with other attendees, provide immediate feedback to speakers, view the agenda at a glance and find your vendor representatives in the exhibit hall. ASET App Champions will periodically ping attendees through the mobile app to keep you engaged in all of the conference events. Exhibitors will be able to use the app for lead retrieval purposes to streamline your exhibit hall experience. Additional information and download instructions on the new conference mobile app will be distributed to pre-registered attendees closer to the event. Stay tuned! Complimentary wireless internet will be available in guest and meeting rooms. *Available for iPhone, iPad, Android, and HTML5 for Blackberry.*

**ASET FOUNDATION LUCKY NUMBERS AUCTION**

Preparations are now underway for a Lucky Numbers Auction to be held at the ASET 2015 Annual Conference. Items for the auction will be on display in the exhibit hall. Bidding will open at the Exhibit Hall Opening on Thursday morning and continue during all exhibit hall hours. The Auction will be closed-out – and items distributed on Friday evening in the exhibit hall.

This is the first year for the ASET Foundation to host a Lucky Numbers Auction. This is a fun alternative to the traditional Silent Auction that the Foundation hosts. Rather than having bid sheets, bidders purchase tickets and use those to bid on items. The more you want an item, the more tickets you should put in the jar to increase your odds of winning. At the conclusion of bidding, one winning ticket is drawn from the jar beside each item. The item is then given to the owner of the winning ticket.

Now more than ever we need your help and generosity to make this event successful. Please consider donating one or more items for the auction. Past popular items have included electronics (iPods, digital cameras, pocket camcorders, wireless reading devices), jewelry, and gift baskets. To make a donation, download the donation form ([www.asetfoundation.org/downloads](http://www.asetfoundation.org/downloads)) and return to the Foundation no later than June 30, 2015. In an effort to raise more funds to support the Foundation’s many initiatives, we are suggesting all items donated have a minimum retail value of $25. Smaller items can be bundled!

**ANNUAL BUSINESS MEETING LUNCHEON**

**Thursday, July 30**

**Noon - 1:30 p.m.**

The Annual Business Meeting Luncheon is an important event not to be missed. This is your opportunity to hear about the state of affairs of ASET and bring up any new business before the Society. Hear the annual reports of the ASET President, Secretary-Treasurer, and ASET Foundation Chair, and witness the installation of the newly elected officers and trustees to the ASET board. In addition to the annual reports, an amendment to the bylaws requiring a full vote of the membership in order to be adopted will be voted on at the meeting. The amendment is as follows:

**RESOLVED:** That Article 5, Members, Section 2, Qualifications, Rights and Privileges of Membership, Subsection c, Student, be amended as follows:

* Key: **Bold** text represents new language proposed; **stricken through** represents language proposed to be deleted.

c. Student: Any person enrolled in a formal training program for neurodiagnostics, not including on-the-job training, may become a student member. Such persons may qualify for student memberships for the length of their educational program and must renew on an annual basis. Student members shall receive official publications of the Society, may serve on committees, and shall be eligible to vote, but shall not be eligible to serve as a trustee or officer.

**EXHIBIT HALL WELCOME RECEPTION**

**Thursday, July 30**

**6:00 – 7:30 p.m.**

This reception offers attendees an opportunity to meet new friends, renew old acquaintances, and explore the exhibit hall in a relaxed and casual atmosphere. Leading companies providing services, equipment, and supplies to the Neurodiagnostic profession will be on hand to answer your questions, and show you what’s new in the industry! Light hors d’œuvres will be served and a cash bar will be available. The Exhibit Hall Reception is included with a Full 3-day registration, and Guest Passes.

*While the exhibit hall is open there will be some gamification encouraging you to visit all of the vendors. Those completing the challenge will be entered into a drawing for a chance to win full registration to ASET’s 2016 Annual Conference.*

**AWARDS CEREMONY LUNCHEON**

**Friday, July 31**

**11:45 - 1:15 p.m.**

Join us for a seated lunch to recognize your peers for their outstanding contributions to the Neurodiagnostic community. The awards ceremony will include presentations of the prestigious Maureen Berkeley Memorial Award, Theda Sannit Outstanding Educator Award, and Trustee’s Award. Induction into the 2015 Class of Fellows will take place, and the first graduating class of the ASET/ABRET Leadership Academy will be honored. All conferees are invited to attend and the event is included in the full and Friday only conference registration fee.

**ROCKIN’ IN THE RAINFOREST**

**Friday, July 30**

**8:00 - 10:00 p.m.**

(Free to all conferees and exhibitors)

After dinner and before you retire for the night, join us for an evening of outdoor networking and entertainment. Bring your dancing shoes as live music will be provided by ASET’s very own member band, The Dendrites.

**INTEREST SECTION LUNCHEON**

**Saturday, August 1**

**12:00 – 1:00 p.m.**

From Acute/Critical Care Neurodiagnostics and Computers in the Workplace to Pediatrics and Neonatology, and Polysomnography/ Sleep Technology, the ASET Interest Section briefings in ASET news and Interest Section forums on the ASET website are great sources for information sharing and getting answers to your questions. ASET’s Interest Sections are led by highly qualified and knowledgeable technologists who can help address your issues and questions – as well as direct you to other invaluable resources. Now you have the ability to ask questions in person at the Saturday conference luncheon. Registration is not required. All you need do is select the luncheon table representing the section in which you have an interest and then share your questions, feedback, and suggestions.
SUNDOWN SEMINARS
FRIDAY, JULY 31
5:00 - 6:30 p.m.

The sundown seminars are designed to promote customized learning in an informal setting with opportunity to ask questions. There is a separate registration fee for these workshops. We encourage you to register in advance but we will accept registrations on-site.

CLTM Exam Resources Workshop
Jen Vierkant, R. EEG/EP T., CLTM, RPSGT
We encourage technologists who are working primarily in LTM to consider obtaining this credential as part of your professional development. If you are considering taking the ABRET certification exam for LTM you will find this workshop very helpful! This informal discussion will help you find the study resources you need and we will review the subjects that you’ll need to know to prepare for the exam.

EEG Instrumentation Review Workshop
Debby Baydoun, R. EEG/EP T., R.NCS.T., CNCT, RPSGT, FASET, MS
Many EEG Technologists find this the most challenging set of concepts to study and understand. However, it is a key component of the ABRET EEG registry exam. This interactive session will provide the opportunity to practice basic skills: determining the polarity of a waveform, how to use filters effectively, and how to calculate the voltage and duration of EEG waveforms.

Autonomic Testing Workshop
Keith Davidson, R. EP T., RPSGT, BA; James Schmelzer, BS
ABRET is now offering a certification exam for autonomic testing practitioners. This workshop will feature two key elements: an overview of the clinical utilization of autonomic testing, and an overview of the ABRET “CAP” exam process and requirements. Autonomic testing is on the rise so be prepared for the future! Presenters include Keith Davidson, who is enthusiastic about the autonomic lab and will share his experience, and James Schmelzer, BS, who worked with ABRET to develop the credentialing exam for autonomic testing.

ICU Trending Workshop
Marco Moreno, R. EEG T., MA
This workshop will help you understand how trending software works to analyze changes in EEG activity over time and how to scan the trending data to find significant events. With a better understanding of the value of trending, all members of the ICU team can take action to initiate treatment changes promptly, when EEG changes occur.

Educator’s Open Forum
This is a free event, and all neurodiagnostic educators are invited to attend. We are planning to keep the agenda open, and encourage networking and conversation about the challenges and rewards of working in allied health education. Brief updates by key stakeholders will be included.

EXHIBIT HALL HOURS EXTENDED
THURSDAY, JULY 30
9:15 a.m. - noon
1:30 - 3:45 p.m.
6:00 - 7:30 p.m.
(reception)

FRIDAY, JULY 31
9:00 - 11:45 a.m.
1:15 - 6:30 p.m.

PARTIAL LIST OF COMPANIES THAT WILL BE EXHIBITING:
(as of 4/16/2015)
Ad-Tech Medical Instrument Corporation
Aureus Medical Group
Blackrock NeuroMed
Cadwell Laboratories, Inc.
Compumedics
CortiCare
Epilepsy Centers of Excellence - VA
Evokes, Inc.
Knowledge Plus, Inc.
Lifelines Neurodiagnostic Systems, Inc.
Mavidon
Natus Neurology Incorporated
Neurovirtual USA, Inc.
PMT Corporation
Procirca
Rhythmlink International
Sentient Medical Systems
Signal Gear
SOMNOmedics GmbH
SpecialtyCare
Taylor & Francis
TCD Education
UCSF Medical Center HR
UNC Charlotte
Weaver and Company
WR Medical Electronics Co.
CONFIRMATION NOTICE
Registrations are normally processed within seven business days of receipt. A confirmation letter will be emailed once the registration has been processed. Please bring a copy of your registration confirmation with you to the pre-registration booth.

REGISTRATION DESK
Pre-registration and on-site registration will be open during the following hours:
- Wednesday: July 29, 6 p.m. - 8 p.m.
- Thursday: July 30, 7 a.m. - 6 p.m.
- Friday: July 31, 7 a.m. - 5 p.m.
- Saturday: August 1, 7:30 a.m. - 2 p.m.

REGISTRATION POLICIES
- Attendees are urged to register online at www.aset.org.
- To register, payment must accompany your registration form. No registrations will be processed without payment.
- The full meeting registration fee includes a flash drive containing the course handouts, attendance and tickets to the plenary session lectures, course learning labs, exhibit hall reception Thursday and Friday evenings, and food functions Thursday through Saturday.
- Registration fees for one or two-day attendance includes a flash drive containing the course handouts, admittance to plenary session lectures and courses for the day registered, and applicable food functions.
- Guest meal package includes admittance to the exhibit hall receptions and lunch, Thursday through Saturday.
- Only those individuals who are registered and have an unaltered badge may attend ASET events.
- Additional fees apply for the Sundown Seminars; refer to the meeting registration form for additional details.
- Attendees who lose their badge may be subject to a replacement fee.

CANCELLATION POLICIES
- All cancellations must be made in writing and must be mailed, faxed or emailed to the ASET Executive Office.
- Written notice of cancellation received by ASET on or before June 30, 2015, will result in a refund of fees paid less a $50 processing fee. There will be no refunds for cancellations received after June 30, 2015.

RECOMMENDED ATTIRE
Business casual attire is strongly encouraged. Please dress comfortably to create the best learning environment. The July/August average daily high in Weston is 89 degrees. Temperatures at night average around 75 degrees. Please note, the meeting rooms may be cooler than expected. We suggest dressing in layers and bring a light jacket or sweater to keep you comfortable.

SPECIAL ASSISTANCE NEEDS
If you require special assistance or dietary consideration, please complete the applicable section on the conference registration form, or call the ASET Executive Office at 816.931.1120, ext 102 or e-mail info@aset.org.

CONTINUING EDUCATION CREDITS
ASET continuing education units will be awarded to participants. Approximately 7.75 ASET-CEUs will be awarded for Thursday, 7.0 credits for Friday and 6.7 for Saturday. The Sundown Seminars will be awarded an additional 1.5 credits. You can earn up to 23 ASET-CEUs during this conference. Such crediting, however, should not be construed by program participants as an endorsement of any type of instruments or supplies mentioned or involved in the presentations.

ANNUAL CONFERENCE SHIRTS
ASET has once again teamed up with Cadwell Laboratories to provide all attendees with a complimentary 2015 Annual Conference t-shirt. Please choose your desired size when registering and remember to stop by Cadwell’s booth in the exhibit hall to show your appreciation for their continued support of ASET and the neurodiagnostic community. The t-shirts are 100% pre-shrunk cotton with the 2015 Annual Conference logo on the front. Your registration must be received by June 30 to ensure you get your preferred size.

GENERAL INFORMATION

CONNECT WITH YOUR PEERS!

ENHANCE YOUR SKILLS!
HOTEL ACCOMMODATIONS AND RESERVATIONS
All events will be held at:

Bonaventure Resort & Spa
250 Racquet Club Rd
Weston, FL 33326
800.327.8090
www.bonaventureresortandspa.com

The Bonaventure Resort & Spa is a tropical paradise on the edge of the Florida Everglades. They offer guests plenty of activities such as golf on a recently renovated PGA course, nature trails, and a full-service spa.

The special conference guest room rate at the Bonaventure Resort & Spa is $125, single or double occupancy, per night. Check-in time is 4 p.m. and checkout is 12 p.m. The resort fee has been waived for ASET conference attendees. Parking is $8/day or $14/day valet for registered guests. Complimentary wireless internet is available in guest and meeting rooms so bring your gadgets and plan for an engaging and interactive experience!

For more information about this tropical oasis, visit www.bonaventureresortandspa.com.

Reservations are to be made directly with the hotel before June 26, 2015, to secure the special conference rates. When making reservations by telephone, mention you are attending the “ASET 2015 Annual Conference”. You can also secure your hotel reservation directly from the ASET website by visiting www.aset.org/achotel and clicking on the Make My Reservation link. Reservations made after the June 26th cut-off date will be on a space-available basis and may not qualify for the conference rate.

TRANSPORTATION
Weston is served by the Ft. Lauderdale/Hollywood International Airport (FLL). The Bonaventure Resort and Spa is located only 18 miles (30 minutes) from the airport. An alternative airport that you may wish to consider is the Miami International Airport. Just 36 miles and 50 minutes away from the Bonaventure Resort and Spa.

GO Airport Shuttle is South Florida’s exclusive on-demand shared ride and private car service. They are the official airport transportation provider for the Fort Lauderdale-Hollywood International Airport. ASET recommends making reservations through Go Airport Shuttle for door-to-door, shared-ride transportation from the airport to the hotel. The fare should be only $25 one-way, including gratuity. Advance reservations for the shuttle service are highly recommended. To make reservations visit www.go-airportshuttle.com or call 954.561.8888. All major credit cards are accepted.

The estimated cost of a taxi cab from the FLL airport to the Bonaventure is $46 one-way. If you are renting a vehicle and driving from the airport, visit www.bonaventureresortandspa.com/location_directions for directions and additional information.

PARKING
Parking at the Bonaventure is $8/day or $14/day valet for registered guest.

IMPORTANT DATES

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Register today to attend the ASET 2015 Annual Conference.

JULY 30 - AUGUST 1, 2015

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AETF 2015 Annual Conference

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www.aset.org