

Final Program



ACNS Fall Courses

October 20-21, 2018

Hyatt Regency Cambridge
CAMBRIDGE, MASSACHUSETTS

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MESSAGE FROM THE PRESIDENT AND COURSE COMMITTEE CO-CHAIRS

On behalf of the American Clinical Neurophysiology Society (ACNS), it is our pleasure to welcome you to Cambridge for the 20178 ACNS Fall Courses. The Fall Courses are led by experts in the field and continue to provide an excellent opportunity for professional growth through education in rapidly-evolving areas of clinical neurophysiology.

The ACNS Course Committee has developed an exceptional program, including parallel courses on Intensive Care Unit Electroencephalography (ICU EEG) Monitoring and Neurophysiologic Intraoperative Monitoring (NIOM). Introduced last year and continued due to an incredible response, a course on Stereo-Electroencephalography will be offered as well. We also think you will find the return of the Pediatric EEG morning course to be a beneficial addition to this weekend's program.

In addition to the courses, please do not hesitate to take advantage of the strong exhibitor presence, be sure to stop by the Exhibit Hall during meals and breaks as well as attend the Welcome Reception on Saturday evening. The Fall Courses also serves as a great opportunity to interact with other colleagues.

On behalf of the ACNS Council and Course Committee, we would like to thank everyone involved in the 2018 Fall Courses for ensuring their continued success. We hope that the courses provide a valuable educational opportunity for all in attendance and wish everyone a safe and enjoyable weekend in Chicago.

Sincerely,

Tobias Loddenkemper, MD, FACNS
President

Frank W. Drislane, MD, FACNS
Course Committee Co-Chair

Courtney J. Wusthoff, MD, FACNS
Course Committee Co-Chair

Executive Office

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Erin Trimmer
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Meetings Coordinator

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Not an ACNS Member?

Join Now!

The benefits of joining are endless but here are just a few:

- Reduced fees for the Annual Meeting & Courses and In-Service Examination.
- Reduced dues for members in training and first-year practitioners.
- Access to the *Journal of Clinical Neurophysiology*.
- Access to the Online Member Directory.

Please visit the ACNS website, www.acns.org, for more information and ways to join!

ACNS INFORMATION

OFFICERS AND COUNCIL

President

Tobias Loddenkemper, MD, FACNS
Children's Hospital Boston

1st Vice President

Cecil D. Hahn, MD, FACNS
Hospital for Sick Children

2nd Vice President

Gloria M. Galloway, MD, FACNS
Ohio State University Medical Center

Secretary

Suzette M. LaRoche, MD, FACNS
Mission Health

Treasurer

Jaime R. Lopez, MD, FACNS
Stanford University

Immediate Past President

Stephan Schuele, MD, MPH, FACNS
Northwestern University

Past President

Jonathan C. Edwards, MD, FACNS
Medical University of South Carolina

Councilors-at-Large

Imran I. Ali, MD, FACNS
University of Toledo

Meriem Bensalem-Owen, MD, FACNS
University of Kentucky

Giridhar Kalamangalam, MD, DPhil, FACNS
University of Texas

Jong Woo Lee, MD, PhD, FACNS
Brigham & Women's Hospital

Daniel L. Menkes, MD, FACNS
William Beaumont Hospital

Devon I. Rubin, MD, FACNS
May Clinic

Sarah E. Schmitt, MD, FACNS
Medical University of South Carolina

Saurabh R. Sinha, MD, PhD, FACNS
Duke University Medical Center

AMA Delegate

Marc R. Nuwer, MD, PhD, FACNS
UCLA

Journal Editor

Aatif M. Husain, MD, FACNS
Duke University Medical Center

COURSE COMMITTEE

Co-Chairs:

Frank W. Drislane, MD, FACNS
Courtney J. Wusthoff, MD, FACNS

Members:

Cecil D. Hahn, MD, MPH, FACNS
Giridhar Kalamangalam, MD, PhD, FACNS
Leslie H. Lee, MD, FACNS
Tobias Loddenkemper, MD, FACNS
Jaime Lopez, MD, FACNS
Stephan U. Schuele, MD, MPH, FACNS
M. Brandon Westover, MD, PhD, FACNS

Ex-Officio:

Jeffrey Britton, MD, FACNS
Gloria M. Galloway, MD, MBA, FACNS
Saurabh R. Sinha, MD, PhD, FACNS
Tammy Tsuchida, MD, PhD, FACNS

CONTINUING MEDICAL EDUCATION (CME) COMMITTEE

Co-Chairs:

Meriem Bensalem-Owen, MD, FACNS
Gloria M. Galloway, MD, MBA, FACNS

Members:

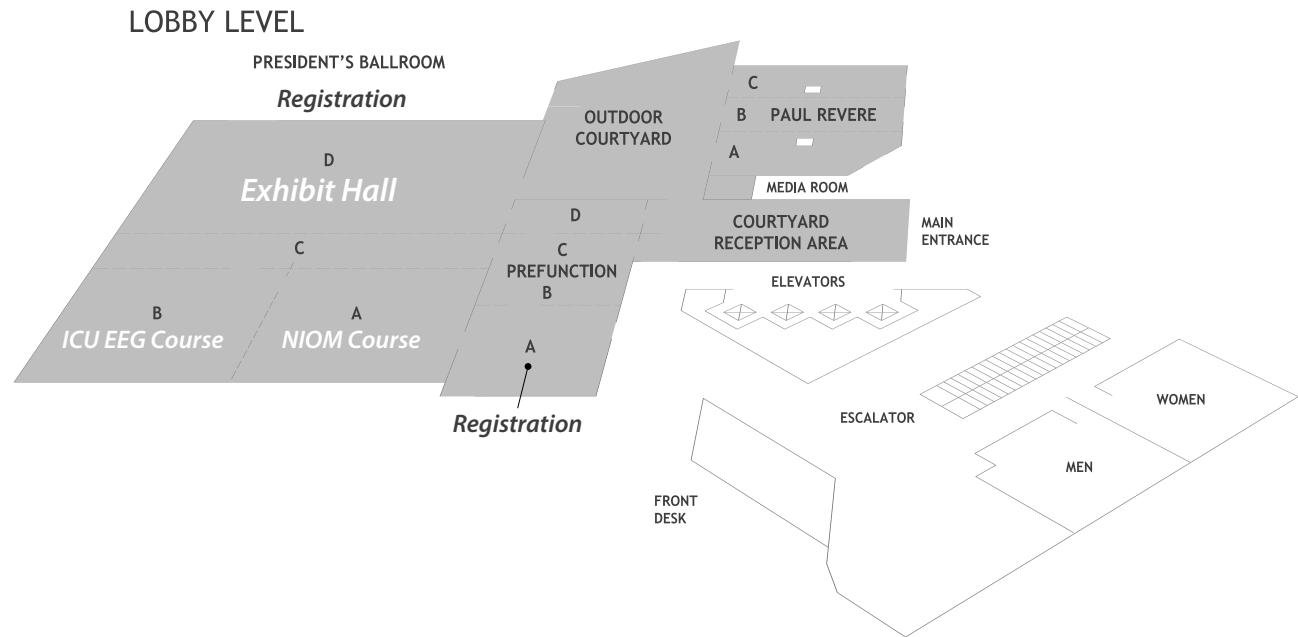
Amy Crepeau, MD
Charles M. Epstein, MD, FACNS
Evan J. Fertig, MD
Elizabeth Gerard, MD, FACNS
Hiba A. Haider, MD
Abeer J. Hani, MD
Susan T. Herman, MD, FACNS
Monica Islam, MD
Pongkiat Kankirawatana, MD, FACNS
Fawad A. Khan, MD
Ammar Kheder, MD
Jong Woo Lee, MD, PhD, FACNS
Joel Oster, MD
Dipakkumar P. Pandya, MD
Jun T. Park, MD, FAES
Karl Erwin Sanzenbacher, MD, MS, FACNS
Mirela V. Simon, MD, MSc, FACNS
Saurabh R. Sinha, MD, PhD, FACNS
Fahd Sultan, MD
Christa Swisher, MD
Shanti Thirumalai, MD, FACNS

Ex-Officio:

Nicholas S. Abend, MD, MSCE, FACNS
Frank W. Drislane, MD, FACNS
Saurabh R. Sinha, MD, PhD, FACNS
Tammy Tsuchida, MD, PhD, FACNS
Courtney J. Wusthoff, MD, FACNS

GENERAL MEETING INFORMATION

HYATT REGENCY CAMBRIDGE FLOOR PLAN



REGISTRATION DESK

Location: President's Ballroom Foyer, Lobby Level

| | | |
|--------|----------------------|-----------------|
| Hours: | Friday, October 19 | 4:00 – 7:00pm |
| | Saturday, October 20 | 6:00am – 5:00pm |
| | Sunday, October 21 | 6:00am – 1:00pm |

BUSINESS CENTER

The Hyatt Regency Cambridge has a business center available for all hotel guests. Services include small quantity copying and printing.

WIRELESS INTERNET

The ACNS will not provide WiFi access to attendees. Please download or print any course materials ahead of arrival to the Fall Courses.

PHOTOGRAPHY AND RECORDING POLICY

Photography or video or audio recording of sessions, materials presented in sessions, or exhibits without written permission from ACNS is strictly prohibited. Please note that photographs and video taken by or on behalf of ACNS of event activities and attendees shall be the property of ACNS.

ACNS MEETING SAFETY & RESPONSIBILITY POLICY

The American Clinical Neurophysiology Society (ACNS) is committed to providing a safe, productive, and welcoming environment for all meeting participants and ACNS/EDI staff. All participants, including, but not limited to, attendees, speakers, volunteers, exhibitors, ACNS/EDI staff, service providers, and others are expected to and, by virtue of registration, invitation or contract acceptance, agree to abide by this Meeting Safety & Responsibility Policy. This Policy applies to all ACNS meeting-related events, including those sponsored by organizations other than ACNS but held in conjunction with ACNS events, in public or private facilities.

Responsible Drinking

At most ACNS networking events both alcoholic and non-alcoholic beverages are served. ACNS expects participants at our events to drink responsibly. ACNS and Meeting host event staff have the right to deny service to participants for any reason, and may require a participant to leave the event.

Personal Safety and Security

ACNS works diligently to provide a safe and secure environment at its meetings and events by working with venue staff to make sure meeting participants are safe. We ask that all attendees report any questionable or concerning activity to ACNS/EDI staff so that they can take immediate action. No concern is too small, if you see something, say something.

- Be aware of your surroundings at all times.
- Use the buddy system when walking to and from the event venue, networking event locations during early or late hours.
- Don't wear your meeting badge on the street. Take it off as soon as you leave the building/venue.
- Don't carry a lot of cash or credit cards. Leave these items in your hotel room safe.
- Don't leave personal property unattended anywhere, anytime.

If it is an emergency or if you need immediate assistance, you should ask any ACNS/EDI staff member or the on-site security personnel to help you.

Unacceptable Behavior

- Harassment, intimidation, or discrimination in any form.
- Physical or verbal abuse of any attendee, speaker, volunteer, exhibitor, ACNS/EDI staff member, service provider, or other meeting guest.

GENERAL MEETING INFORMATION

- Examples of unacceptable behavior include, but are not limited to, verbal comments related to gender, sexual orientation, disability, physical appearance, body size, race, religion, national origin, inappropriate use of nudity and/or sexual images in public spaces or in presentations, or threatening or stalking any attendee, speaker, volunteer, exhibitor, ACNS/ EDI staff member, service provider, or other meeting guest.
- Disruption of presentations at sessions, in the exhibit hall, or at other events organized by ACNS at the meeting venue, hotels, or other ACNS-contracted facilities.

ACNS has zero-tolerance for any form of discrimination or harassment, including but not limited to sexual harassment by participants or our staff at our meetings. If you experience harassment or hear of any incidents of unacceptable behavior, ACNS asks that you inform the ACNS President or ACNS Executive Director Megan M. Hille, CMP, CAE (mhille@acns.org) so that we can take the appropriate action.

ACNS reserves the right to take any action deemed necessary and appropriate, including immediate removal from the meeting without warning or refund, in response to any incident of unacceptable behavior, and ACNS reserves the right to prohibit attendance at any future meeting.

PRIVACY AND DATA PROTECTION POLICY

ACNS takes your privacy seriously and will only collect and use your personal information to administer your registration and attendance at its meetings/courses, to provide services that you have requested, and otherwise as you may expressly consent.

It is necessary for ACNS, and authorized parties working with ACNS in connection with meetings, courses, products and services, to collect and use the information that you provide (name and contact information, demographic/practice information) to administer and facilitate your attendance at meeting/courses. This may include sharing your information with others providing goods and services related to the meeting (i.e., the hotel in which the meeting will be held or program/abstract collection software vendors). In these cases, ACNS has a "legitimate interest" in collecting and sharing your data, and considers your meeting/course registration or product/service purchase your consent to collect, use and share said data.

You will, however, be given the opportunity to opt-out of non-essential collection and use of your information during all meeting/course registration and product/service purchase processes.

MEALS

The following meals will be provided to Fall Courses delegates:

Saturday, October 20, 2018 (Ballroom D, Lobby Level)

| | |
|-----------|---|
| Breakfast | 7:00 – 9:00am |
| Lunch | 12:00 – 1:00pm |
| Reception | 5:00 - 6:00pm (hors d'oeuvres and cash bar) |

Sunday, October 21, 2018 (President's Ballroom Foyer; Second Level)

Breakfast 7:00 – 9:00am

Beverages will also be provided during scheduled breaks on Saturday, October 20 and Sunday, October 21.

NEARBY RESTAURANTS

Please refer to this list for lunch options on Sunday, October 21 and dinner both days. Additional restaurants located downtown are listed below.

| Restaurant | Type | Price Range | Address/Distance from Hyatt Regency Cambridge |
|---------------------|---------------|-------------|---|
| Flour Bakery & Cafe | Deli | \$ | 40 Erie Street (0.4 mile) |
| Charlie's Kitchen | American | | 10 Eliot Street |
| Phoenix Landing | American | | 512 Mass Avenue |
| Bricco | Italian | | 241 Hanover Street (|
| Regina Pizzeria | Italian | \$\$ | 11 ½ Thacher Street |
| Oleana | Mediterranean | \$\$\$ | 134 Hampshire Street (1.5 miles) |
| Catalyst | American | \$\$\$ | 300 Technology Square (1.1 miles) |
| Border Café | Mexican | \$ | 32 Church Street |
| Beat Brasserie | American | \$\$\$ | 13 Brattle Street |

CONTINUING MEDICAL EDUCATION (CME) INFORMATION

PURPOSE

The American Clinical Neurophysiology Society (ACNS) is a professional association dedicated to fostering excellence in clinical neurophysiology and furthering the understanding of central and peripheral nervous system function in health and disease through education, research, and the provision of a forum for discussion and interaction.

CONTENT

ACNS is committed to providing continuing medical education to its members and others interested in clinical neurophysiology. Educational objectives include 1) Reviewing current knowledge of clinical neurophysiology including: electroencephalography, evoked potentials, electromyography, nerve conduction studies, intraoperative monitoring, polysomnography and other sleep technology, quantitative neurophysiological methods, magnetoencephalography, sleep disorders, epilepsy, neuromuscular disorders, brain stimulation, brain-computer interfacing, and related areas; and 2) Informing course and meeting attendees of recent technological developments and their implications for clinical practice.

EXPECTED RESULT

Attendees will improve competence in clinical neurophysiology procedures and incorporate new technological advancements into their practice.

GAPS AND NEEDS

In compliance with the Updated Accreditation Criteria of the Accreditation Council for Continuing Medical Education (ACCME), the Continuing Medical Education Committee of the ACNS has identified “professional practice gaps.” Definition: A “professional practice gap” is the difference between what a health professional is doing or accomplishing compared to what is achievable on the basis of current professional knowledge.

The following professional practice gaps and educational needs were identified by a combined effort of the Program, Course and CME Committees.

Gap 1. Emerging Areas of Practice

Neurophysiologic intraoperative monitoring (NIOM) and intensive care unit EEG monitoring (ICU EEG) are new and rapidly evolving areas of clinical neurophysiology. Few practicing neurologists have adequate training in these techniques, and physicians with competence in these areas are in great demand. Educational activities should cover both basic methodologies for those practitioners new to ICU EEG and NIOM, and innovative techniques.

Gap 2. General Practice of Clinical Neurophysiology

Clinical neurophysiology procedures are performed by a large proportion of practicing US neurologists, many of whom have little or no formal training in clinical neurophysiology. Many clinical neurophysiology procedures (e.g. evoked potentials, invasive EEG) are performed at low volume at most centers, and a forum for review and hands-on interpretation are essential to maintain competence in these areas.

CHANGES IN BEHAVIOR/PRACTICE

It is intended that, as a result of attending the meeting and/ or courses, physician attendees will be able to identify changes in competence or performance that are desirable. Definitions: “Competence” is knowing how to do something. “Performance” is what the physician would do in practice, if given the opportunity.

EVALUATION

The updated ACCME accreditation criteria are designed to integrate with the new requirements for maintenance of certification (for more information see www.ABPN.org). Physicians are expected to perform self-assessments of their practice, but the ACNS, as an organization accredited by the ACCME, is expected to measure how its educational activities assist physicians in this activity. Thus, there are new questions in the evaluation form. These questions address your intended changes in competence or performance. In a few months, we will contact all physician meeting attendees to ask you if you actually HAVE experienced changes in competence or performance. Your responses, now and in the future, will assist us and ultimately you in determining educational activities that are most useful to you.

POLICY ON FINANCIAL DISCLOSURES

It is the policy of ACNS to ensure balance, independence, objectivity and scientific rigor in all its individually sponsored or jointly sponsored educational programs. In order to comply with the ACCME's Updated Standards for Commercial Support, ACNS requires that anyone who is in a position to control the content of an educational activity discloses all relevant financial relationships with any commercial interest pertaining to the content of the presentation. Should it be determined that a conflict of interest exists as a result of a financial relationship of a planner of the CME activity, the planner must recuse himself or herself from the planning for that activity or relevant portion of that activity. All presentations for which the presenter disclosed a potential conflict of interest are peer reviewed by two members of the ACNS CME Committee with no relationships. If bias is found, the presenter is asked to make changes to the presentation and it is re-reviewed for bias before final approval. Refusal to disclose a conflict or the inability to resolve an identified conflict precludes participation in the CME activity. Complete conflict of interest disclosure information is printed in the final program for the activity. A learner may request additional information regarding the nature of a planner or speaker's disclosure if “No Relevant Relationships” has been indicated below. To request additional information, contact the ACNS Executive office at info@acns.org.

CONTINUING MEDICAL EDUCATION (CME) INFORMATION

MEETING DESCRIPTION

The Society's educational activities are directed to clinical neurophysiologists, neurologists, psychiatrists, physiatrists, neurosurgeons, trainees in these disciplines and other physicians and researchers who utilize clinical neurophysiologic techniques and knowledge in the diagnosis and management of patients with disorders of the peripheral and central nervous system.

The 2018 Fall Courses are designed around three of the new and rapidly-evolving areas of clinical neurophysiology, Neurological Intraoperative Monitoring (NIOM), Intensive Care Unit EEG Monitoring (ICU EEG), and Stereo-Electroencephalography. Educational activities will cover both basic methodologies for those practitioners new to NIOM and ICU EEG, and innovative techniques. The SEEG course will include key lectures on concepts and surgical aspects of SEEG recordings and a case based workshop discussing indication, implantation, interpretation and surgical resection planning in various pediatric and adult epilepsy syndromes.

TARGET AUDIENCE

The Society's educational activities are directed to clinical neurophysiologists, neurologists, psychiatrists, physiatrists, neurosurgeons, trainees in these disciplines and other physicians and researchers who utilize clinical neurophysiological techniques and knowledge in the diagnosis and management of patients with disorders of the nervous system.

LEARNING OBJECTIVES

Intensive Care Unit EEG Monitoring (ICU EEG)

At the conclusion of this course, participants should be able to:

1. Recognize common indications for CEEG in the ICU setting in neonates, children, and adults;
2. Interpret EEG patterns encountered in the ICU, including seizures, periodic patterns and other background patterns important for prognosis and management;
3. Utilize quantitative EEG methods to see long-term trends, screen for seizures rapidly, and to detect signs of ischemia;
4. Describe the value and limitations of routine EEG and continuous EEG monitoring to predict neurologic outcomes in hypoxic ischemic encephalopathy;
5. Recognize the specific EEG patterns induced by different anesthetics used in general anesthesia and in the ICU;
6. Select appropriate equipment for ICU-EEG monitoring, including networking and data storage options; and
7. Determine optimal staffing, data review, and reporting practices.

Neurophysiologic Intraoperative Monitoring (NIOM)

At the conclusion of this course, participants should be able to:

1. Describe basic modalities used in NIOM;
2. Recognize the appropriate methods and indications for a variety of common and uncommon NIOM techniques;
3. Recognize differences in NIOM of adult and pediatric cases;
4. Explain a variety of NIOM case presentations and interpretation of neurophysiologic data;
5. Recognize some of the technical challenges and limitations of performing and interpreting NIOM studies; and
6. Discuss relevant billing and medicolegal concerns in the field of NIOM.
7. Stereo EEG

Stereo EEG

At the conclusion of this course, the participant should be able to:

1. Describe the principles of SEEG;
2. Discuss the approach to various epilepsy syndromes with SEEG; and
3. Discuss the limitations of SEEG and surgical risk.

Neonatal and Pediatric EEG Update

At the conclusion of this course, participants should be able to:

1. Apply an organized approach to the interpretation of neonatal and Pediatric EEG recordings;
2. Apply advanced concepts to the interpretation of neonatal and pediatric EEG recordings; and
3. Recognize the cardinal clinical and EEG features of metabolic epilepsies of infancy and childhood.

ACCREDITATION STATEMENT

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the sponsorship of ACNS. ACNS is accredited by the ACCME to provide continuing medical education for physicians.

CREDIT DESIGNATION

ACNS designates the Fall Courses for the maximum number of AMA PRA Category 1 Credit(s)[™] and ASET CEUs indicated below. Physicians should claim only credit commensurate with the extent of their participation in the activity.

Intensive Care Unit EEG Monitoring (ICU EEG) - Pt. I: 6 AMA PRA Category 1 Credits[™]

Intensive Care Unit EEG Monitoring (ICU EEG) - Pt. II: 6 AMA PRA Category 1 Credits[™]

Neurologic Intraoperative Monitoring (NIOM) - Pt. I: 6 AMA PRA Category 1 Credits[™]

Neurologic Intraoperative Monitoring (NIOM) - Pt. II: 6 AMA PRA Category 1 Credits[™]

Stereo-Electroencephalography (Stereo EEG) - Pt. I: 2 AMA PRA Category 1 Credits[™]

Stereo-Electroencephalography (Stereo EEG) - Pt. II: 2 AMA PRA Category 1 Credits[™]

Neonatal & Pediatric EEG Update - 1.5 AMA PRA Category 1 Credits[™]

CONTINUING MEDICAL EDUCATION (CME) INFORMATION

ASET CEU STATEMENT

ASET – The Neurodiagnostic Society has granted ASET Continuing Education (ACE) credits as follows for this program. Such crediting, should not be construed by program participants as an endorsement of any type of instruments or supplies mentioned or involved in these presentations.

Intensive Care Unit EEG Monitoring (ICU EEG) – Pt. I: 6 ASET-CEUs

Intensive Care Unit EEG Monitoring (ICU EEG) – Pt. II: 6 ASET-CEUs

Neurophysiologic Intraoperative Monitoring (NIOM)-Pt. I – 6 ASET-CEUs

Neurophysiologic Intraoperative Monitoring (NIOM)-Pt. II – 6 ASET-CEUs

Stereo-Electroencephalography (Stereo EEG) – 7.5 ASET CEUs

Pediatric EEG Update – 1.5 ASET CEUs

Upon completion of the event attendees should follow the below instructions to claim their ASET-CEU credits:

- Print and sign your name on the ASET-CEUs Attendance Roster at the end of the program in order to receive ASET-CEUs. If you arrive late or need to leave the program early (by 30 minutes or more), write the time in the far right column. Your program director will determine the number of credit hours you might be eligible to receive.
- You will also be asked to turn in your completed program evaluation form when you sign out. The evaluation forms are a very important part of the ASET-CEUs process.
- A transcript of your ASET-CEUs hours will be sent to you upon request. If you would like to receive your transcript, please complete the ASET-CEUs Transcript form and mail or fax to the address at the bottom of this page. ASET-CEUs transcripts are free for members and \$25.00 for non-members.

CME CERTIFICATES & CERTIFICATES OF ATTENDANCE

Certificates of Attendance and CME certificates will be available to pre-registered delegates at the conclusion of each day for that day's scheduled courses. Please visit the ACNS Website (<http://www.acns.org/meetings/fall-courses/2018/cme-information>) to claim your certificate. Delegates who registered on-site will be able to obtain a CME certificate at www.acns.org starting November 15, 2018.

Delegates are REQUIRED to complete session evaluations to obtain a CME Certificate or Certificate of Attendance. Delegates should log on to the website listed above and enter their last name and their ACNS ID# listed at the top of their Fall Courses confirmation form, included in their registration packet. The system will then ask delegates to indicate which sessions they attended, complete evaluation forms for their registered sessions, and then will generate a PDF certificate which may be printed or saved to the delegate's computer. Session attendance and evaluation information are saved in the database, and certificates may be accessed again in the event the certificate is lost or another copy is required. Delegates will only be able to claim CME Certificates and Certificates of Attendance to the courses they are registered for.

Please note that certificates will not be mailed or emailed after the meeting. The online certificate program is the only source for this documentation. Please contact ACNS at info@acns.org for any questions. ACNS asks that all CME certificates be claimed no later than December 31, 2018.

CONTINUING MEDICAL EDUCATION (CME) INFORMATION

POLICY ON FINANCIAL DISCLOSURES

It is the policy of ACNS to ensure balance, independence, objectivity and scientific rigor in all its individually sponsored or jointly sponsored educational programs. In order to comply with the ACCME's Updated Standards for Commercial Support, ACNS requires that anyone who is in a position to control the content of an educational activity discloses all relevant financial relationships with any commercial interest pertaining to the content of the presentation. Should it be determined that a conflict of interest exists as a result of a financial relationship of a planner of the CME activity, the planner must recuse himself or herself from the planning for that activity or relevant portion of that activity. All presentations for which the presenter disclosed a potential conflict of interest are peer reviewed by two members of the ACNS CME Committee with no relationships. If bias is found, the presenter is asked to make changes to the presentation and it is re-reviewed for bias before final approval. Refusal to disclose a conflict or the inability to resolve an identified conflict precludes participation in the CME activity. Complete conflict of interest disclosure information is printed in the final program for the activity. A learner may request additional information regarding the nature of a planner or speaker's disclosure if "No Relevant Relationships" has been indicated below. To request additional information, contact the ACNS Executive office at info@acns.org.

CONFLICT OF INTEREST DISCLOSURES

Key: a. Grants/Research Support; b. Consultant; c. Stock/Shareholder (self-managed); d. Speaker's Bureau; e. Advisory Board or Panel; f. Salary, Contractual Services; g. Other Financial or Material Support (royalties, patents, etc.)

| Name | Institution | Disclosure |
|------------------------------------|---|--|
| Nicholas S. Abend, MD, MSCE, FACNS | Children's Hospital of Philadelphia | No Relationships |
| Imran I. Ali, MD, FACNS | University of Toledo | Greenwich Biosciences (a); Neuropace: (a); Sunovion: (a) |
| Edilberto Amorim, MD | Massachusetts General Hospital | No Relationships |
| Meriem Bensalem-Owen, MD | University of Kentucky | Greenwich Biosciences (a); Neuropace (a); Sunovion (a) |
| Jeffrey Britton, MD, FACNS | Mayo Clinic | No Relationship |
| Jessica L. Carpenter, MD | Children's National Medical Center | No Relationships |
| Catherine Chu, MD | Massachusetts General Hospital | SleepMed (b); Alliance EEG (b) |
| Amy Crepeau, MD | Mayo Clinic | No Relationships |
| Frank W. Drislane, MD, FACNS | Beth Israel Deaconess Medical Center | No Relationships |
| Ronald Emerson, MD, FACNS | Hospital for Special Surgery / Weill Cornell Med Center | Amgen (c); Bristol Meyers Squibb (c); Eli Lilly (c); General Electric (c); Ice Neurosystems (c); Johnson & Johnson (c); Neuropace (c); Pfizer (c); Quality Care Products (c); Reach Bionics (c); Thermo Fisher (c) |
| Charles M. Epstein, MD | Emory University School of Medicine | Neuronetics, Inc (g) |
| Evan J. Fertig, MD | Providence Brain and Spine Institute | Portland Inter-Hospital Physician Association (a); SAGE Pharma (a) |
| Gloria M. Galloway, MD, MBA, FACNS | Ohio State University Medical Center | No Relationships |
| Elizabeth Gerard, MD, FACNS | Northwestern University | See addendum |
| Cecil D. Hahn, MD, MPH, FACNS | The Hospital for Sick Children | No Relationships |
| Hiba A. Haider, MD | Emory University | No Relationships |
| Abeer J. Hani, MD | Lebanese American University | No Relationship |
| Susan T. Herman, MD, FACNS | Beth Israel Deaconess Medical Center | Acorda Therapeutics (a); EGI, Inc. (a); Epilepsy Therapy Development Project (a); Neuropace, Inc. (a); Sage Pharmaceuticals (a); UCB Pharma (a) |
| Aatif M. Husain, MD, FACNS | Duke University Medical Center | Eisai Pharmaceuticals (b, e); Jazz Pharmaceuticals (b); Marinus Pharmaceuticals (b, e) |

CONTINUING MEDICAL EDUCATION (CME) INFORMATION

| Name | Institution | Disclosure |
|--|--------------------------------------|---|
| Monica Islam, MD | Nationwide Children's Hospital | No Relationships |
| Giridhar P. Kalamangalam, MD, DPhil, FACNS | University of Florida | No Relationships |
| Pongkiat Kankirawatana, MD, FACNS | Children's of Alabama- UAB | No Relationship |
| Fawad A. Khan, MD | Ochsner Health System | Engage Therapeutics (a); Sage Therapeutics (a) |
| Ammar Kheder, MD | Penn Epilepsy Center | No Relationships |
| Suzette M. Laroche, MD | Mission Health | No Relationships |
| Jong Woo Lee, MD, PhD, FACNS | Brigham & Women's Hospital | Advance Medical (f); SleepMed/DigiTrace (f) |
| Leslie Lee, MD, FACNS | Stanford University Medical Center | No Relationships |
| Alan D. Legatt MD, PhD, FACNS | Montefiore Medical Center | General Electric (c); Glaxo SmithKline (c); Johnson & Johnson (c); Merck (c); Pfizer (c); Proctor & Gamble (c); TEVA (c) |
| Tobias Loddenkemper, MD, FACNS | Boston Children's Hospital | Lundbeck(a); Eisai (a); Upsher-Smith (a); Mallinckrodt (a); Sage (a); Pfizer (a); Zogenix (g); Amzell (g)t; Upsher-Smith (g); Eisai (g); Advanced Medical (g); Device Loans (g) |
| Jaime R. Lopez, MD, FACNS | Stanford University | No Relationships |
| Daniel L. Menkes, MD, FACNS | William Beaumont Hospital | No Relationships |
| Mark R. Nuwer, MD, PhD, FACNS | UCLA | Corticare (c) |
| Joel Oster, MD | Tufts University | No Relationships |
| Dipakkumar P. Pandya, MD | Hunterdon Neurology | Sunovian (d) |
| Jun T. Park, MD, FAES | Case Western Reserve University | No Relationships |
| Phillip Pearl, MD, FACNS | Boston Children's Hospital | No Relationships |
| Eva K. Ritzl, MD, FACNS | Johns Hopkins University | No Relationships |
| Devon I. Rubin | Mayo Clinic | No Relationships |
| Arnold J. Sansevere, MD | Boston Children's Hospital | No Relationships |
| Karl Erwin Sanzenbacher, MD, MS, FACNS | Eastern Maine Medical Center | See addendum |
| Sarah E. Schmitt, MD | Medical University of South Carolina | Sage Therapeutics (e) |
| Stephan U. Schuele, MD, MPH, FACNS, FAAN | Northwestern University | Eisai Inc. (d); SK Life Science (b); Sunovion (d) |
| Mirela V. Simon, MD, FACNS | Massachusetts General Hospital | No Relationships |
| Saurabh R. Sinha, MD, PhD, FACNS | Duke University Medical Center | Basilea Inc. (e); Cadwell Inc. (b); Eisai Inc. (a); UCB Pharmaceuticals (a, b) |
| Scellig Stone, PhD, MD | Boston Children's Hospital | Agilis Biotherapeutics (b); Alcyone Lifesciences, Inc. (b, g) |
| Fahd Sultan, MD | University Tubingen | No Relationships |
| Christa Swisher, MD | Duke University Medical Center | StimLabs (c) |
| Shanti Thirumalai, MD, FACNS | | Intra Diagnostics Inc. (f); Medsurant Holdings (g); Science 37 (b) |
| Tammy Tsuchida, MD, PhD, FACNS | Children's National Medical Center | No Relationships |
| Jake Uminski, CNIM | Massachusetts General Hospital | No Relationships |
| M. Brandon Westover, MD, PhD, FACNS | Massachusetts General Hospital | No Relationships |
| Courtney J. Wusthoff, MD, FACNS | Stanford University | Ceribell (b); Persyst (b) |
| Sahar F. Zafar, MD | Massachusetts General Hospital | Sage Therapeutics (a) |

PROGRAM AGENDA

MORNING COURSES:

Saturday, October 20, 2018 – 7:30am-9:00am

Neonatal and Pediatric EEG Update

Course Co-Directors: *Cecil D. Hahn, MD, MPH, FACNS & Tobias Loddenkemper, MD, FACNS*

Agenda:

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- | | |
|--------|--|
| 7:30am | Basics of Neonatal and Pediatric EEG <i>Arnold Sansevere, MD</i> |
| 8:00am | Advanced Concepts in Neonatal and Pediatric EEG <i>Catherine Chu, MD</i> |
| 8:30am | Recognizing the Metabolic Epilepsies of Infancy and Childhood <i>Phillip Pearl, MD, FACNS</i> |

Saturday, October 20 & Sunday, October 21, 2018 – 7:00am-9:00am

Stereo-Encephalography (Stereo EEG)

Course Co-Directors: *Stephan U. Schuele, MD, MPH, FACNS* and *Giridhar Kalamangalam, MD, DPhil, FACNS*

Agenda:

Part I - Saturday, October 20, 2018

- | | |
|--------|--|
| 7:00am | Introduction to SEEG <i>Giridhar Kalamangalam, MD, DPhil, FACNS</i> |
| 7:30am | Temporal Lobe Syndromes <i>Giridhar Kalamangalam, MD, DPhil, FACNS</i> |
| 8:00am | Frontal Lobe Syndromes <i>Saurabh Sinha, MD, PhD, FACNS</i> |
| 8:30am | Stimulation with SEEG: The Epileptogenic Zone and Functional Mapping <i>Stephan Schuele, MD, MPH, FACNS</i> |

Part II - Sunday, October 21, 2018

- | | |
|--------|---|
| 7:00am | Surgical Aspects of SEEG <i>Scellig Stone, PhD, MD</i> |
| 7:30am | Posterior Cortex Syndromes <i>Stephan U. Schuele, MD, MPH, FACNS</i> |
| 8:00am | Deep Lesions <i>Giridhar Kalamangalam, MD, DPhil, FACNS</i> |
| 8:30am | Pediatric SEEG <i>Tobias Loddenkemper, MD, FACNS</i> |

COURSE AGENDA

TWO-DAY COURSES

Saturday, October 20 & Sunday, October 21, 2018 (9:30am-5:00pm)

Neurophysiologic Intraoperative Monitoring (NIOM)

Course Co-Directors: *Jaime Lopez, MD, FACNS* and *Leslie H. Lee, MD, FACNS*

Agenda:

Part I - Saturday, October 20, 2018

| | |
|---------|---|
| 8:45am | Breakfast |
| 9:30am | Welcome and Introductions |
| 9:35am | SEP <i>Aatif M. Husain, MD, FACNS</i> |
| 10:15am | MEP <i>Ron Emerson, MD, FACNS</i> |
| 10:55am | Coffee Break and Visit Exhibits |
| 11:10am | BAEP Monitoring <i>Alan Legatt, MD, PhD, FACNS</i> |
| 11:50am | Discussion |
| 12:00pm | Lunch and Visit Exhibits |
| 1:00pm | EEG Monitoring <i>Marc R. Nuwer, MD, PhD, FACNS</i> |
| 1:40pm | EMG & Peripheral Nerve Monitoring <i>Gloria M. Galloway, MD, MBA, FACNS</i> |
| 2:20pm | Cranial Nerve Monitoring <i>Jaime R. Lopez, MD, FACNS</i> |
| 3:00pm | Coffee Break and Visit Exhibits |
| 3:15pm | Anesthesia during NIOM <i>Ron Emerson, MD, FACNS</i> |
| 3:55pm | Troubleshooting Issues in NIOM <i>Mirela V. Simon, MD, FACNS, and Jake Uminski, CNIM</i> |
| 4:35pm | Challenging Case Discussion <i>Jaime Lopez, MD, FACNS and Leslie Lee, MD, FACNS</i> |
| 4:50pm | Discussion |
| 5:00pm | Welcome Reception |

Part II - Sunday, October 21, 2018

| | |
|---------|---|
| 8:45am | Breakfast |
| 9:30am | Welcome and Introductions |
| 9:35am | Pediatric Considerations in NIOM <i>Gloria M. Galloway, MD, MBA, FACNS</i> |
| 10:15am | Adult Spinal Column Surgery <i>Eva K. Ritzl, MD, FACNS</i> |
| 10:55am | Coffee Break |
| 11:10am | NIOM of Spinal Cord Tumors <i>Eva K. Ritzl, MD, FACNS</i> |
| 11:50am | Discussion |
| 12:00pm | Lunch (delegates on own, see page 4 for nearby restaurants) |
| 1:00pm | Functional Mapping of the Brain <i>Mirela V. Simon, MD, FACNS</i> |
| 1:40pm | NIOM of Cerebrovascular Cases <i>Leslie H. Lee, MD, FACNS</i> |
| 2:20pm | Billing Issues in NIOM <i>Marc R. Nuwer, MD, PhD, FACNS</i> |
| 3:00pm | Coffee Break |
| 3:15pm | Medicolegal Concerns in NIOM <i>Jaime Lopez, MD, FACNS</i> |
| 3:55pm | NIOM of Aortic Surgeries <i>Leslie H. Lee, MD, FACNS</i> |
| 4:35pm | Challenging Case Discussion <i>Jaime Lopez, MD, FACNS and Leslie H. Lee, MD, FACNS</i> |
| 4:50pm | Discussion |
| 5:00pm | Adjourn |

COURSE AGENDA

TWO-DAY COURSES

Saturday, October 20 & Sunday, October 21, 2018 (9:30am-5:00pm)

Intensive Care Unit EEG Monitoring (ICU EEG)

Course Co-Directors: *Tammy Tsuchida, MD, PhD, FACNS* & *M. Brandon Westover, MD, PhD, FACNS*

Agenda:

Part I - Saturday, October 20, 2018

| | |
|---------|--|
| 8:45am | Breakfast |
| 9:30am | Introductory Remarks and Overview <i>M. Brandon Westover, MD, PhD, FACNS</i> |
| 9:35am | Seizures: Overview of ICU EEG Monitoring – All Ages (Including Seizure Detection/Management) <i>Nicholas Abend, MD, MSCE, FACNS</i> |
| 10:20am | Seizures: Management of Seizures in Adults <i>Jong Woo Lee, MD, PhD, FACNS</i> |
| 10:55am | Coffee Break & Visit Exhibits |
| 11:10am | Seizures: Management of Refractory and Super-Refractory SE <i>Hiba A. Haider, MD</i> |
| 11:40am | Seizures: Treatment Risk-Benefit Calculus <i>Aatif M. Husain, MD, FACNS</i> |
| 12:10pm | Lunch and Visit Exhibits |
| 1:10pm | Seizures: Identification and Management of Seizures, Periodic Patterns and What Lies in Between <i>Suzette M. LaRoche, MD, FACNS</i> |
| 2:10pm | Seizures: Unusual Types of Status Epilepticus <i>Frank Drislane, MD, FACNS</i> |
| 2:35pm | Seizures: Management in Neonates and Children <i>Jessica Carpenter, MD</i> |
| 3:00pm | Coffee Break & Visit Exhibits |
| 3:15pm | HIE: Prognosis in Adults <i>Edilberto Amorim, MD</i> |
| 3:45pm | HIE: Prognosis in Children and Neonates <i>Tammy Tsuchida, MD, PhD, FACNS</i> |
| 4:15pm | Case Presentations <i>Jong Woo Lee, MD, PhD, FACNS, Cecil D. Hahn, MD, MPH, FACNS, and Tammy Tsuchida, MD, PhD, FACNS</i> |
| 4:45pm | Discussion |
| 5:00pm | Welcome Reception |

Part II - Sunday, October 21, 2018

| | |
|---------|--|
| 8:45am | Breakfast |
| 9:30am | QEEG: Overview of Available Tools and Uses <i>Hiba A. Haider, MD</i> |
| 9:55am | QEEG: Theory of Spectrograms <i>M. Brandon Westover, MD, PhD, FACNS</i> |
| 10:15am | QEEG: Seizure Recognition Tutorial/Case Review <i>Edilberto Amorim, MD</i> |
| 10:55am | Coffee Break |
| 11:10am | QEEG: Ischemia Detection <i>Susan T. Herman, MD, FACNS</i> |
| 11:40am | QEEG Case Presentations <i>Jessica Carpenter, MD and Sahar Zafar, MBBS</i> |
| 12:10pm | Lunch (delegates on own, see page 4 for nearby restaurants) |
| 1:10pm | EEG in Toxic/Metabolic Encephalopathy (delirium): Adults <i>Sarah E. Schmitt, MD, FACNS</i> |
| 1:40pm | EEG in ICU Sedation Monitoring <i>M. Brandon Westover, MD, PhD, FACNS</i> |
| 2:10pm | Multimodal and Invasive Monitoring <i>Sahar Zafar, MBBS</i> |
| 2:35pm | Staffing, Personnel, Workflow and Logistics <i>Cecil D. Hahn, MD, MPH, FACNS</i> |
| 3:00pm | Coffee Break |
| 3:15pm | Billing and Coding <i>Marc R. Nuwer, MD, PhD, FACNS</i> |
| 3:45pm | ICU EEG Guidelines <i>Susan T. Herman, MD, FACNS</i> |
| 4:15pm | Discussion <i>Tammy Tsuchida, MD, PhD, FACNS</i> |
| 5:00pm | Adjourn |

EXHIBIT HALL INFORMATION

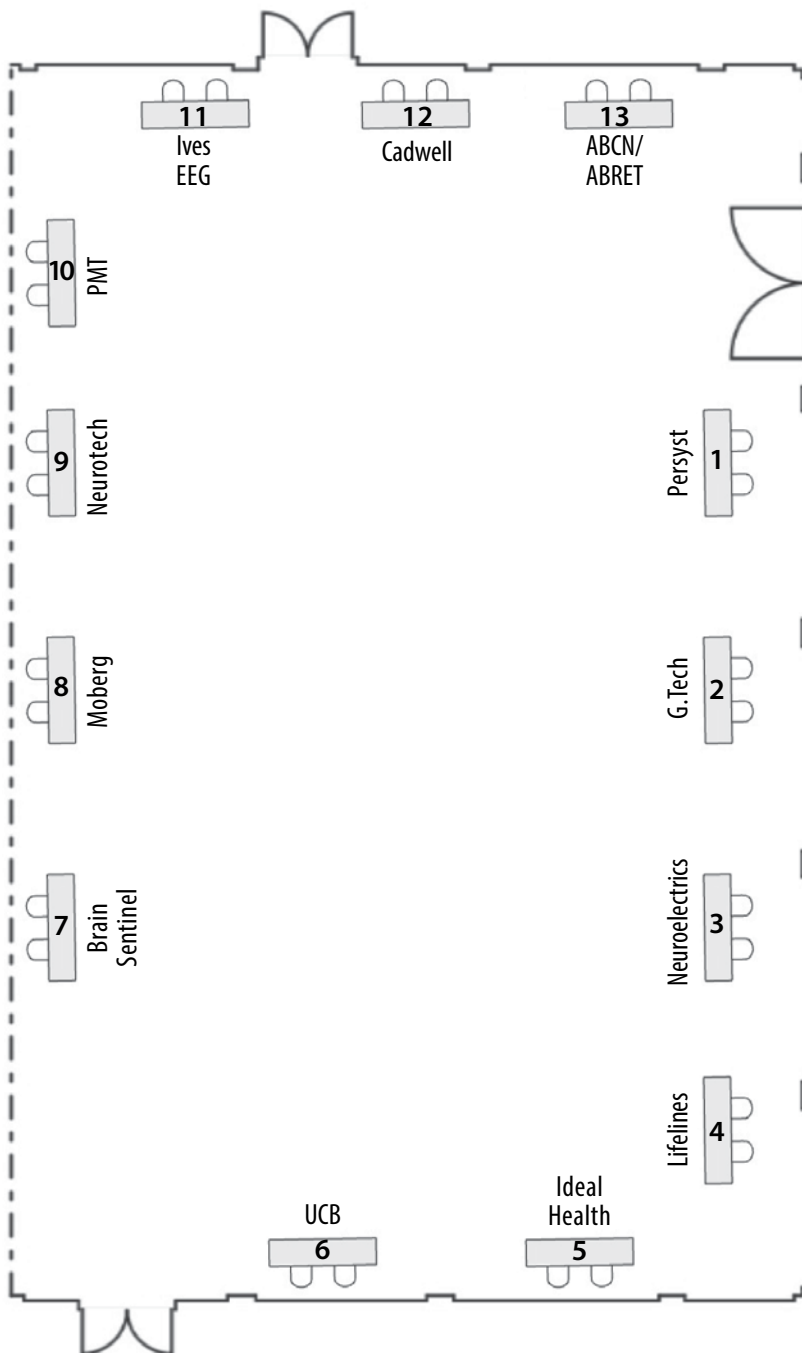
EXHIBIT HALL HOURS

Saturday, October 20, 2018 8:30am - 6:00pm

Location: President's Ballroom D; Lobby Level

ACNS provides exhibit space at scientific meetings for commercial exhibits related to the fields of basic and clinical neurophysiology. The Society makes no attempt to evaluate any aspect of the material exhibited. Noncompliance with guidelines published by the ACNS has not been considered by the Society in allotting commercial space. Hence, acceptance of these commercial exhibits should not be construed as indicated sponsorship or approval of their products by ACNS.

EXHIBIT HALL FLOOR PLAN



| Table # | Exhibitor |
|---------|---|
| 13 | ABCN/ABRET |
| 7 | Brain Sentinel Diagnostic Services, LLC |
| 12 | Cadwell Laboratories |
| 2 | G.TEC Neurotechnology USA, Inc. |
| 5 | Ideal Health Careers, Inc |
| 11 | Ives EEG Solutions |
| 4 | Lifelines Neurodiagnostic Systems |
| 8 | Moberg Research |
| 3 | Neuroelectrics |
| 9 | Neurotech, LLC |
| 1 | Persyst Development Corporation |
| 10 | PMT Corporation |
| 6 | UCB |

EXHIBIT HALL INFORMATION

EXHIBIT HALL DIRECTORY

Table 13

ABCN/ABRET

2908 Greenbriar Dr.
Suite A
Springfield, IL 62704
UNITED STATES
(217) 726-7980
abcn@att.net
abret@att.net

The American Board of Clinical Neurophysiology (ABCN) has a 65-year history of promoting excellence in Clinical Neurophysiology and offers examinations with added competency in Epilepsy Monitoring, Neurophysiologic Intraoperative Monitoring, Critical Care EEG, or General Clinical Neurophysiology. International testing is available. Stop by to see the new on-line CNP Self-Assessment program! Coming soon – Pediatric EEG Track.

ABRET Neurodiagnostic Credentialing & Accreditation offers five credentials for technologists and practitioners (R. EEG T.®, R. EP T.®, CNIM®, CLTM®, CAP®) and a Certificate Program, CMEG®. For labs wanting to demonstrate a commitment to standards and quality, laboratory accreditation programs are available, LAB-EEG, LAB-NIOM, and LAB-LTM.

Table 7

Brain Sentinel Diagnostic Services, LLC

8023 Vantage Drive
Suite 216
San Antonio, TX 78230
UNITED STATES
(855) 275-5424
info@brainsentinel.com

Brain Sentinel provides physicians with access to objective data that may help patients live with better seizure management. The SPEAC® System delivers months of continuously recorded physiological data to rule-in generalized tonic-clonic seizures and quantify other motor events.

Table 12

Cadwell Industries, Inc.

909 N. Kellogg Street
Kennewick, WA 99336
UNITED STATES
(509) 735-6481
info@cadwell.com

Cadwell has been focused on the development of useful and innovative devices for physiatrists, neurologists, and technologists who want the very best devices to provide superior care since 1979.

Table 2

G.tec Neurotechnology USA, Inc.

5 University Pl Rm D201
Rensselaer, NY 12144
UNITED STATES
(518) 495-3826

g.tec developed the first commercially available Brain Computer Interface system in 1999, and in 2018 customers from more than 60 countries are using g.tec devices. There are five g.tec offices worldwide, Graz, Schiedberg, and Barcelona in Europe; Albany, NY in North America; and Hong Kong in Asia. g.tec works with all major BCI approaches, such as motor imagery, P300, SSVEP, slow cortical potentials, etc. The company is also an active member in hundreds of national and international research projects and scientific publications.

Table 5

Ideal Health Careers, Inc.

3455 Peachtree Road, #500
Atlanta, GA 30326
UNITED STATES
(404) 816-9988

Ideal Health Careers is a professional search firm focusing solely on the clinical neurophysiology market, enabling us to become a key strategic asset for our clients. We have been recruiting in this space for over 14 years and have successfully placed dozens of interpreting physicians and 100+ IOM/EEG clinical, sales, and marketing professionals across the country. We understand the neurodiagnostic market! We have several full-time opportunities for experienced clinical neurophysiologists (IOM) as well as Neurologists completing fellowships in 2019.

Table 11

Ives EEG Solutions

25 Storey Ave
Suite 118
Newburyport, MA 01950
UNITED STATES
(978) 358-8006

For more than 20 years we have listened to our customers to offer the best products and solutions to help advance EEG in every ICU and EMU around the globe. We specialize in affordable, high quality, innovative products for EEG, IONM and EMG. We offer FDA approved MR Conditional electrode systems for cEEG/ICU and LTM/EMU. We also carry a unique collection of disposable IONM stimulation probes. In addition, we offer a premium selection of needle and adhesive electrodes for EMG recording. Visit our booth to see what new and innovative products we have in the pipeline.

EXHIBIT HALL INFORMATION

Table 4

LifeLines Neurodiagnostic Systems

411 Edwardsville Road

Suite A

Troy, IL 62294

UNITED STATES

(618) 667-6445

sales@lifelinesneuro.com

Lifelines Neurodiagnostic Systems is a pioneer in EEG. The acceptance of our Cloud-based, interactive EEG solution now has tens of thousands of days of video EEG stored in the Cloud in a secure, encrypted, HIPAA-compliant environment. We implement our mission, Changing Lives Through Neurodiagnostic Innovation, by providing solutions that are easy and efficient for clinicians with innovative solutions like the Jordan WiEEG BraiNet and eight-channel EEG amplifier. This product enables the clinician to quickly assess the EEG recorded in the ED from a remote internet connection. The Virtual EMU allows a patient to have their longterm video EEG recorded in the comfort of their own home, and the Incereb EEG electrode arrays simplify neonatal EEG monitoring. Lifelines is quickly developing a reputation for being the market expert at recording high-quality EEG in the most difficult of places.

Table 8

Moberg Research

224 S Maple Street

Ambler, PA 19002

UNITED STATES

(215) 283-0860

info@moberg.com

The Moberg Component Neuromonitoring System (CNS) is a continuous video EEG system specifically designed for the ICU. The system provides a full array of quantitative EEG trends, compatibility with Persyst, high-frequency, EEG, and is the preferred system for recording spreading depolarizations. The Moberg CNS is the only comprehensive data management system for neurocritical care. It collects and time synchronizes data from over 30 devices (vital signs, brain oxygen, temperature management, etc.) for more accurate EEG interpretation. It provides a data platform to facilitate individualized patient care. Data can be exported into Capsule, IBM Streams, Matlab, and other third-party software applications.

Table 3

Neuroelectrics

210 Broadway

Suite 201

Cambridge, MA 02139

UNITED STATES

Neuroelectrics® is a digital brain health company that innovates at the intersection of neuroscience, physics, machine learning and hardware. We have developed wireless portable EEG and tDCS, tACS, tRNS stimulation devices with up to 32 channels, encompassing software and research services, with

the purpose of monitoring and enhancing brain health. Our team has a dream: to reinvent the way we observe and treat the human brain. Neuroelectrics has created diagnostic and treatment telemedicine wireless platforms based on Starstim and Enobio, combining multichannel transcranial current stimulation such as tDCS with EEG. We envision neurofeedback at home

Table 9

Neurotech LLC

626 W. Moreland Blvd.

Waukesha, WI 53188

UNITED STATES

Neurotech, LLC specializes in EEG services including in-home, long-term, and continuous hospital EEG monitoring. Accredited by the Joint Commission and partnered with many academic facilities, our in-home, long-term EEG monitoring services improves our patients' comfort and provides a cost-effective alternative to a hospital stay. Neurotech cEEG Partners, LLC provides hospitals with continuous EEG monitoring in the ICU and EMU to improve patient safety and outcomes.

Table 1

Persyst Development Corporation

420 Stevens Avenue

Suite 210

Solana Beach, CA 92705

UNITED STATES

(858) 461-4542

Persyst is the worldwide leader in EEG software. Our software is used daily by thousands of neurologists at hundreds of hospitals around the world. We have pioneered the use of digital signal processing and neural networks in order to remove artifacts and interpret EEG data.

Table 10

PMT Corporation

1500 Park Road

Chanhassen, MN 55317

UNITED STATES

(952) 470-0866

PMT® Corporation is the premier supplier of an extensive line of neurosurgical products. Offering high-end neck braces, including halo systems and orthotic vests for cervical, thoracic and lumbar spinal immobilization. PMT® also offers Cortac® Cortical Surface Electrodes, sEEG and Depthalon® Depth Electrodes for epilepsy monitoring; microsurgical and irrigation instruments. PMT® Corporation has nationwide direct sales force available 24 hours a day and 365 days a year, along with distributors worldwide.

AMERICAN CLINICAL NEUROPHYSIOLOGY SOCIETY

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2019 Annual Meeting & Courses

FEBRUARY 6-10, 2019 ✦ CAESAR'S PALACE ✦ LAS VEGAS, NEVADA



✦ Save the Date

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