



# ACNS Fall Courses

SEPTEMBER 24-25, 2016 Sheraton Music City

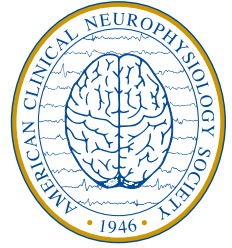
**Nashville, Tennessee**



# ABOUT 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.

Founded in 1946 and originally named the American Electroencephalographic Society (AEEGS), ACNS is the major professional organization in the United States devoted to the establishment and maintenance of standards of professional excellence in clinical neurophysiology in the practice of neurology, neurosurgery and psychiatry. ACNS members utilize neurophysiology techniques in the diagnosis and management of patients with disorders of the nervous system and in research examining the function of the nervous system in health and disease.



## ABOUT THE FALL COURSES

The 2016 Fall Courses are designed around two rapidly-evolving areas of clinical neurophysiology, Neurophysiologic Intraoperative Monitoring (NIOM) and Intensive Care Unit EEG Monitoring (ICU EEG). Educational activities will cover both basic methodologies for those practitioners new to NIOM and ICU EEG, and innovative techniques. Last year's morning courses, Epilepsy Surgery and Pediatric EEG will again be offered for the 2016 Fall Courses.

## FALL COURSES 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;
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. Recognize the appropriate methods and setting for a variety of NIOM techniques commonly utilized;
2. Identify appropriate methods and setting for a variety of NIOM techniques uncommonly utilized;
3. Discuss NIOM case presentations including interpretation of neurophysiologic data;
4. Recognize some of the technical challenges in performing and interpreting NIOM;
5. Identify updated information on NIOM practices.

### Epilepsy Surgery Update

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

1. Discuss concepts and approach to Stereo-EEG;
2. Discuss several approach to minimally invasive epilepsy surgery;
3. Describe principles of different stimulation techniques in the treatment of epilepsy and choose the appropriate intervention for individual patients.

### Pediatric EEG Update

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

1. Apply an organized approach to the interpretation of neonatal EEG recordings;
2. Recognize the cardinal clinical and EEG features of neonatal seizures and epilepsy;
3. Identify the cardinal clinical and EEG features of pediatric seizures and epilepsy.

## 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 neurophysiologic techniques and knowledge in the diagnosis and management of patients with disorders of the peripheral and central nervous system.

## 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)*™ indicated below:

Intensive Care Unit EEG Monitoring (ICU EEG): 10 *AMA PRA Category 1 Credits*™  
Neurologic Intraoperative Monitoring (NIOM): 12.5 *AMA PRA Category 1 Credits*™  
Epilepsy Surgery Update: 1.5 *AMA PRA Category 1 Credits*™  
Pediatric EEG Update: 1.5 *AMA PRA Category 1 Credits*™

Physicians should claim only credit commensurate with the extent of their participation in the activity

## IMPORTANT DATES

### Housing Open Now! Registration Open Now!

September 8, 2016: Housing Deadline

September 8, 2016: Advance Registration Deadline

September 12, 2016: Registration Cancellation Deadline

CME Certificate Program Opens (pre-registered delegates): September 24, 2016

CME Certificate Program Opens (delegates registering on-site): October 25, 2016

For complete program information and to register, visit [www.acns.org/meetings/fall-courses/2016-fall-courses](http://www.acns.org/meetings/fall-courses/2016-fall-courses).

## THE ACNS 2016 FALL COURSES WILL BE HELD AT THE SHERATON MUSIC CITY:

777 McGavock Pike, Nashville, TN 37214

ACNS Group Rate: \$199/night; single/double occupancy  
Housing Open Now! Housing Deadline: September 8, 2016

Visit the ACNS website for hotel and travel information  
(<http://www.acns.org/meetings/fall-courses/2016-fall-courses>).

Reservations will be accepted on a space-available basis at the standard hotel rate after the housing deadline of September 8, 2016. Please reserve your rooms before the deadline to take advantage of the group rate.





## PROGRAM OVERVIEW

### Morning Courses

7:30 – 9:00am

#### Epilepsy Surgery Update

**Saturday, September 24**

Course Co-Directors: Stephan U. Schuele, MD, MPH, FACNS & William O. Tatum, DO, FACNS

##### AGENDA:

- 7:30am Intracranial EEG Using Stereo-EEG  
*Stephan U. Schuele, MD, MPH, FACNS*
- 8:00am Stereotactic Minimally Invasive Epilepsy Surgery  
*William O. Tatum, IV, DO, FACNS*
- 8:30am Neurostimulation: Choices and Challenges  
*Amir M. Arain, MD*
- 9:00am Adjourn

#### Pediatric EEG Update

**Sunday, September 25**

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

##### AGENDA:

- 7:30am Introduction to Neonatal EEG  
*Cecil D. Hahn, MD, MPH, FACNS*
- 8:00am Neonatal Epilepsy – Clinical and EEG Features  
*Tammy Tsuchida, MD, PhD, FACNS*
- 8:30am Pediatric Epilepsy – Clinical and EEG Features  
*Tobias Loddenkemper, MD, FACNS*
- 9:00am Adjourn

### TWO-DAY COURSES

**Saturday, September 24 & Sunday, September 25 (9:15am – 5:00pm)**

#### Neurophysiologic Intraoperative Monitoring (NIOM)

Course Co-Directors: Gloria Galloway, MD, FACNS & Marc R. Nuwer, MD, PhD, FACNS

##### AGENDA:

#### Saturday, September 24

- 9:15am Welcome  
*Marc R. Nuwer, MD, PhD, FACNS*
- 9:20am SEP  
*Aatif M. Husain, MD, FACNS*
- 10:05am MEP  
*Ronald Emerson, MD, FACNS*
- 10:50am Coffee Break & Visit Exhibits
- 11:10am BAEP  
*Alan Legatt, MD, PhD, FACNS*
- 11:55am Lunch & Visit Exhibits
- 1:00pm Endovascular NIOM  
*Jaime R. López, MD, FACNS*
- 1:45pm Electrocorticography  
*Marc R. Nuwer, MD, PhD, FACNS*
- 2:30pm Coffee Break & Visit Exhibits
- 2:45pm Cranial Nerve Mapping and Monitoring  
*Jaime R. López, MD, FACNS*
- 4:20pm CP Angle Surgery/Microvascular Decompression  
*Alan Legatt, MD, PhD, FACNS*
- 5:00pm Adjourn

#### Sunday, September 25

- 9:15am Welcome  
*Gloria Galloway, MD, FACNS*
- 9:20am Anesthesia Considerations  
*Ronald Emerson, MD, FACNS*
- 10:05am Lumbosacral Surgery  
*Gloria Galloway, MD, FACNS*
- 10:50am Coffee Break
- 11:10am Billing and Coding  
*Marc R. Nuwer, MD, PhD, FACNS*
- 11:55am Lunch
- 1:00pm Peripheral Nerve Monitoring  
*TBD*
- 1:45pm SDR  
*Gloria Galloway, MD, FACNS*
- 2:30pm Coffee Break
- 2:45pm Tethered Cord  
*Aatif M. Husain, MD, FACNS*
- 4:20pm Cauda Equina Monitoring  
*TBD*
- 5:00pm Adjourn

*Program is tentative; topics and speakers are subject to change.*



# PROGRAM OVERVIEW

## TWO-DAY COURSES

**Saturday, September 24 & Sunday, September 25 (9:15am – 5:00pm)**

### Intensive Care Unit EEG Monitoring (ICU EEG)

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

#### AGENDA:

#### Saturday, September 24

- 9:15am Introductory Remarks and Overview  
*M. Brandon Westover, MD, PhD*
- 9:25am Seizures: Utility of CEEG for Detection - Adults  
*Saurabh R. Sinha, MD, PhD, FACNS*
- 9:55am Seizures: Utility for CEEG Detection – Pediatric/Neonate  
*Cecil D. Hahn, MD, MPH, FACNS*
- 10:25am Seizures: Terminology for Rhythmic and Periodic Patterns  
*Suzette LaRoche, MD, FACNS*
- 10:55am Coffee Break & Visit Exhibits
- 11:10am Seizure: Mechanisms & Influence on Outcome  
*Tobias Loddenkemper, MD, FACNS*
- 11:40am Seizures: Impact of Treatment on Outcome: Risk-Benefit Calculus  
*Aatif M. Husain, MD, FACNS*
- 12:10pm Lunch & Visit Exhibits
- 1:10pm Seizures: Management in Neonates & Children  
*Tobias Loddenkemper, MD, FACNS*
- 1:40pm Seizures: Management in Adults  
*Aatif M. Husain, MD, FACNS*
- 2:10pm Seizures: Management of Refractory & Super-Refractory SE  
*Eric S. Rosenthal, MD*
- 2:40pm Coffee Break & Visit Exhibits
- 2:55pm HIE: Prognosis in Adults  
*Peter W. Kaplan, MD, FRCP, FACNS*
- 3:25pm HIE: Prognosis in Children & Neonates  
*Tammy Tsuchida, MD, PhD, FACNS*
- 3:55pm HIE: Emerging Quantitative Approaches to Prognosis  
*Edilberto Amorim, MD*
- 4:25pm Case Presentations
- 5:00pm Adjourn

#### Sunday, September 25

- 9:15am QEEG: Overview of Available Tools & Uses  
*Saurabh R. Sinha, MD, PhD, FACNS*
- 9:45am QEEG: Theory of Spectrograms  
*M. Brandon Westover, MD, PhD*  
*Patrick L. Purdon, PhD*
- 10:15am QEEG: Seizure Recognition Tutorial  
*Edilberto Amorim, MD*
- 10:45am Coffee Break
- 11:00am QEEG: Ischemia Detection  
*M. Brandon Westover, MD, PhD*
- 11:30am EEG in Toxic/Metabolic Encephalopathy (Delirium): Adults  
*Peter W. Kaplan, MD, FRCP, FACNS*
- 12:00pm Lunch
- 1:00pm EEG & aEEG in Encephalopathy: Neonatal/ Pediatric  
*Tammy Tsuchida, MD, PhD, FACNS*
- 1:30pm EEG in General Anesthesia  
*Patrick L. Purdon, PhD*
- 2:00pm EEG in ICU Sedation Monitoring  
*M. Brandon Westover, MD, PhD*
- 2:30pm Coffee Break
- 2:45pm Multimodal & Invasive Monitoring  
*Eric S. Rosenthal, MD*
- 3:15pm Staffing, Personnel, Workflow & Logistics  
*Cecil D. Hahn, MD, MPH, FACNS*
- 3:45pm Billing & Coding  
*Marc R. Nuwer, MD, PhD, FACNS*
- 4:15pm ICU EEG Guidelines  
*Suzette LaRoche, MD, FACNS*
- 4:45pm Questions & Discussion
- 5:00pm Adjourn

*Program is tentative; topics and speakers are subject to change.*

