



PRELIMINARY
PROGRAM

American Clinical Neurophysiology Society
ANNUAL MEETING & COURSES



PHOENIX
2017

FEBRUARY 8-12, 2017
SHERATON GRAND PHOENIX



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Table of Contents

Message from Course and Program Committee Co-Chairs	1
ACNS Information	2
Council	2
About the American Clinical Neurophysiology Society (ACNS)	2
Course Committee	2
Program Committee	3
CME Committee	3
General Meeting Information	4
About the Annual Meeting & Courses	4
Phoenix Visitor Information	4
Headquarters Hotel	4
Mobile App	4
Housing Reservations	4
Registration Procedure	4
Important Dates	4
Continuing Medical Education (CME) Information	5
Educational Mission Statement	5
Meeting Description	6
Annual Courses Learning Objectives	6
Annual Meeting Learning Objectives	6
Accreditation Statement	6
Credit Designation	6
Call for Poster Abstracts	7
Young Investigator Travel Award	8
Award Recipients & Lectures	9
Annual Courses Program	10
Annual Meeting Program	13
Annual Meeting & Courses Registration Form	19

Message from Course and Program Committee Co-Chairs

Dear Colleagues,

On behalf of the American Clinical Neurophysiology Society (ACNS) Council, we are thrilled to invite you to attend the 2017 Annual Meeting & Courses, taking place February 8-12, 2017 at the Sheraton Grand Phoenix in Phoenix, Arizona.

The ACNS Annual Meeting & Courses are designed to provide a review of the fundamentals as well as the latest scientific advances in central and peripheral neurophysiology. Experts in the field will give presentations of significant value for all healthcare professionals who utilize clinical neurophysiology.

This year, the Annual Courses include expanded offerings in peripheral neurophysiology. Also, the courses are organized along tracks that should minimize conflicts for most attendees. As was done in 2016, and due to the continued success and interest in Neurophysiologic Intraoperative Monitoring (NIOM), the course will remain in the two full-day format to accommodate the degree of interest and growth within this rapidly expanding field of clinical neurophysiology. The course directors are working hard to provide attendees with an informative and educational series of presentations.

The Program Committee is pleased to present an impressive selection of sessions for delegates to attend throughout the weekend. There was an outstanding set of session proposals submitted for consideration this year and we are confident that the program content will provide an exciting educational opportunity for all in attendance.

Following the recent success of the Joint International Symposia, we are pleased to announce the inclusion of three sessions co-organized by our colleagues outside the US. We are honored to welcome representatives from the Brazilian Society of Clinical Neurophysiology, the Mexican Society of Clinical Neurophysiology, the Latin American Chapter of IFCN, and the German Society of Clinical Neurophysiology. This year will also feature two sessions with speakers from the IFCN Executive Committee. We hope you will take advantage of this opportunity to learn from and collaborate with our international colleagues.

In addition to the scientific sessions, there will be opportunities for educational entertainment and networking. The annual Neurophys Bowl provides a great night of "edu-tainment" for participants and attendees to test their knowledge in various fields of Clinical Neurophysiology. Additionally, attendees can socialize and network with exhibitors, colleagues and friends during the Welcome Reception on Friday, February 10 in the Exhibit Hall. Saturday evening will feature a keynote lecture from Phillip Pearl, MD, FACNS entitled "Neurology of Musical Masters".

The 2017 Annual Meeting & Courses will provide an opportunity for education, networking and interaction with the latest technology for attendees in various fields of clinical neurophysiology. We hope to see you in Phoenix!

Sincerely,



Tobias Loddenkemper, MD, FACNS
Course Committee Co-Chair



Saurabh R. Sinha, MD, PhD, FACNS
Course Committee Co-Chair



Meriem Bensalem-Owen, MD, FACNS
Program Committee Co-Chair



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



ACNS Information

Council

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FIRST VICE PRESIDENT

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Mayo Clinic Florida

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About the American Clinical Neurophysiology Society (ACNS)

ACNS' mission is to serve patients and society by empowering members to advance the science, practice and profession of clinical neurophysiology. This mission serves to fulfill the vision to optimize neurologic health through understanding of nervous system function

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.

Course Committee

CO-CHAIRS:

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ACNS Information

Program Committee

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Duke University Medical Center

General Meeting Information

About the Annual Meeting & Courses

This year's scientific program will feature the latest scientific advances in clinical neurophysiology presented by leading national and international experts in the field. This dynamic program has more choices than ever including the return of the Joint ACNS and International Society symposia, presentations from IFCN Executive Committee members, and speakers who are experts in their field. The parallel sessions will provide simultaneous sessions for interests in EEG, electrodiagnosis and neurophysiologic intraoperative monitoring.

The meeting also features a number of opportunities for networking, including a Professional Development Mentorship Program in which residents and fellow applicants are paired with senior ACNS members and provided an opportunity to connect. The annual Neurophys Bowl is a mainstay of the Annual Meeting program, allowing members and delegates a chance to challenge their knowledge of clinical neurophysiology in a competitive and entertaining format.

Phoenix Visitor Information

Nearest Airport: Phoenix Sky Harbor International Airport

Phoenix Sky Harbor International Airport (PHX) offers about 1,200 daily flights and services more than 40 million passengers annually. PHX is located 3 miles from downtown Phoenix.

Phoenix's Metro Light Rail system is accessible by shuttle bus at the airport; bus services also run from Phoenix Sky Harbor Airport to locations in the city and the wider Arizona area.

Average February Temperatures: High 71° F, Low 49° F

Phoenix is the sixth-largest city in the United States with a population of over 1.6 million and by land area, it is larger than New York and Los Angeles combined. Phoenix is also known as the "Valley of the Sun" and is the most populated state capitol in the U.S.

The city offers numerous activities for varying interests. Take a hike up Camelback Mountain or down into the Grand Canyon. Play a round on one of Phoenix's more than 200 golf courses. Catch a game – Phoenix is one of only a few cities that is home to all 4 professional sports teams including the Phoenix Suns (National Basketball Association), Arizona Diamondbacks (Major League Baseball), Arizona Cardinals (National Football League), and Arizona Coyotes (National Hockey Association). Enjoy an afternoon at one of the many museums or the Desert Botanical Garden. Get out and explore the city!

Headquarters Hotel

Sheraton Grand Phoenix
340 N 3rd Street
Phoenix, AZ 85004
(602) 262-2500

Mobile App

New in 2017, ACNS will offer a free mobile app for meeting attendees. More information to follow. Be sure to document your meeting experience on social media using **#ACNS2017!**

Important Dates

Advance Registration Open	September 12, 2016
Poster Abstract Submission Open	October 1, 2016
Poster Abstract Submission Deadline	November 15, 2016
Poster Abstract Decision Notification	December 15, 2016
Housing Deadline	January 15, 2017
Advance Registration Deadline	January 15, 2017
Registration Cancellation Deadline	January 20, 2017
Courses Handout Website Open	January 31, 2017
CME Certificate Program Opens (pre-registered delegates)	February 8, 2017
CME Certificate Program Opens (delegates registering onsite)	March 8, 2017
CME Certificate Claim Deadline	April 3, 2017
Courses Handout Website Closes	April 28, 2017

Housing Reservations

A block of rooms has been reserved for ACNS Annual Meeting & Courses delegates at the Sheraton Grand Phoenix. Reservations will be accepted on a space-available basis, at the standard hotel rate after the housing deadline of January 15, 2017. Please reserve your rooms before the deadline to take advantage of the group rate.

ACNS Group Rate: \$239/night single/double occupancy

Group rate will be offered three days prior and three days following the dates of the Room Block, based on availability.

Housing Open: Now Open!

Housing Deadline: January 15, 2017

To make reservations online, visit the ACNS website: <http://www.acns.org/meetings/annual-meeting-and-courses/2017-annual-meeting-and-courses/housing-travel>.

To make reservations by phone, call (602) 262-2500. If making reservations by phone, don't forget to mention the ACNS Annual Meeting to receive the group rate!

Registration Procedure

Save on registration fees and avoid long lines onsite when you register before the advance deadline of January 15! Online registration is a fast and easy way to register in advance, however, delegates may also register by completing and mailing or faxing the PDF registration form available online or on page 19.

To register online, go to the ACNS website: <http://www.acns.org/meetings/annual-meeting-and-courses/2017-annual-meeting-and-courses/registration>.

All registrations will be confirmed by email. If you do not receive a confirmation within two weeks of submission, please contact the ACNS Executive Office at (414) 918-9803 or info@acns.org.

Continuing Medical Education (CME) Information

Educational Mission Statement

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.

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.

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.

Several specific topics with significant gaps between current practice and ideal practice have been identified via review of the literature, review of clinical neurophysiology fellowship curricula, and surveys of ACNS members and Annual Meeting attendees.

These include:

- Peripheral neurophysiology, Pediatric EMG, critical illness related neurophysiology, and muscle ultrasound
- Basic EEG: Identification of normal variants, identification of artifacts, clinical correlation
- Pediatric EEG, especially neonatal EEG
- Digital EEG processing, e.g. quantitative EEG and trends for use in the intensive care unit, source localization, coregistration with neuroimaging, etc.
- Full band EEG, Ultrafast and ultraslow EEG
- NIOM: Motor evoked potentials, guidelines and standards of care for NIOM (e.g. indications, cost effectiveness)
- Evoked potentials: Current role of short- and long-latency EPs
- Video-EEG monitoring, especially invasive EEG
- Sleep, Use of new scoring system, implications for patient care

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 ACNS Annual Meeting & Courses are designed to provide a solid review of the fundamentals and the latest scientific advances in both “central” and “peripheral” clinical neurophysiology. Presentations at the Annual Meeting & Courses are given by leading experts in the field and have value for health care professionals who utilize clinical neurophysiology. Sessions include symposia, workshops, courses and Special Interest Groups, featuring didactic lectures, expert panels, debates and interactive formats. Poster presentations at the Annual Meeting highlight the latest work conducted at clinical neurophysiology centers around the country.

Annual Courses Learning Objectives

At the end of the Annual Courses, the participant will be able to:

1. Describe the indications for use of clinical neurophysiology techniques in diagnosis of disorders of the nervous system;
2. Incorporate new neurophysiology procedures and technological advances into his/her own clinical practice; and
3. Perform and interpret a broad range of clinical neurophysiology procedures, and integrate the results of these tests into comprehensive patient management plans.

Annual Meeting Learning Objectives

At the end of the Annual Meeting, the participant will be able to:

1. Discuss recent advances in electroencephalography, evoked potentials, ALS, magnetoencephalography, practice technologies, nerve conduction studies and other clinical neurophysiology techniques; and
2. Apply advances in clinical neurophysiology techniques to improve the diagnosis of neurologic disorders.

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 ACCME to provide continuing medical education for physicians.

Credit Designation

ACNS designates the Annual Meeting for a maximum 18.75 *AMA PRA Category I Credit(s)*TM. Physicians should claim only credit commensurate with the extent of their participation in the activity.

ACNS designates the Annual Courses for the maximum number of *AMA PRA Category 1 Credit(s)*TM.

Applied Cases in Central Neurophysiology & Video-EEG

1.5 *AMA PRA Category I Credit(s)*TM

EEG/EMG/NIOM Technology

1.5 *AMA PRA Category I Credit(s)*TM

Neurophysiologic Intraoperative Monitoring (NIOM) Part I

6.5 *AMA PRA Category I Credit(s)*TM

Intensive Care Unit EEG Monitoring (ICU EEG)

6.25 *AMA PRA Category I Credit(s)*TM

Introduction Stereo-EEG

1.5 *AMA PRA Category I Credit(s)*TM

Non-Invasive Brain Stimulation Technology

1.5 *AMA PRA Category I Credit(s)*TM

Autonomic Neurophysiology

1.5 *AMA PRA Category I Credit(s)*TM

EMG

4.25 *AMA PRA Category I Credit(s)*TM

Neurophysiologic Intraoperative Monitoring (NIOM) Part II

6.5 *AMA PRA Category I Credit(s)*TM

Electrocorticography (ECoG)/Invasive EEG

6.5 *AMA PRA Category I Credit(s)*TM

4th Annual CNP Program Director's Symposium

2 *AMA PRA Category I Credit(s)*TM

Applied Cases in Peripheral Neurophysiology

2 *AMA PRA Category I Credit(s)*TM

Video-EEG

3 *AMA PRA Category I Credit(s)*TM

Evoked Potentials

2.75 *AMA PRA Category I Credit(s)*TM

Neonatal & Pediatric EEG

3 *AMA PRA Category I Credit(s)*TM



Call for Poster Abstracts

Submission Dates

Poster abstract submission will open on October 1, 2016. All abstracts must be submitted online by Sunday, November 15, 2016 at 11:59pm ET. No exceptions will be made.

Online Abstract Submission

Poster abstracts must be submitted through the ACNS website. Complete instructions for submission are available online. Abstracts that have been mailed, emailed or faxed will not be accepted. Anyone may submit a poster abstract to ACNS. Membership in ACNS is not required for poster abstract submission.

Abstract Review

All abstracts submitted will be reviewed, evaluated for scholarly and relevant content, and graded in blinded fashion by the ACNS Program Committee. The review process takes approximately four weeks, and acceptance notification will be made by email no later than December 15, 2016.

Abstract Categories

Abstracts submitted to the 2017 ACNS Annual Meeting must fit into one of the following categories to be considered for presentation:

Autonomic Function and its Disorders
Basic Neurophysiology
Critical Care Monitoring
Deep Brain and Cortical Stimulation
Digital/Quantitative EEG and Topography
EEG
EMG/NCV Testing
Epilepsy: Clinical
Epilepsy: Pathophysiology
Evoked Potentials
Functional Imaging
Intraoperative Monitoring
Magnetoencephalography
Peripheral Neuropathy/Neuromuscular
Sensory/Motor Physiology
Sleep
Video-EEG Monitoring for Epilepsy

Abstract Types

Two types of poster abstract submissions will be accepted: Poster Abstract Regular Submission or Poster Abstract Case Report Submission. Both types of submissions will follow the same review process. Abstract titles are limited to 60 characters and 200 words for the additional required fields listed below for each submission type:

POSTER ABSTRACT REGULAR SUBMISSION

Introduction
Methods
Results
Conclusion

POSTER ABSTRACT CASE REPORT SUBMISSION

Introduction
Case Report/Case History
Conclusion

Previous Publication or Presentation

Abstracts which have been published in journals, meeting proceedings, or other publication, as well as those presented at meetings prior to the ACNS meeting are eligible and welcome for submission. All poster abstracts presented at the Annual Meeting will be published in the Journal of Clinical Neurophysiology.

Author Attendance Requirement

By submitting an abstract to 2017 ACNS Annual Meeting, abstract authors are agreeing that at least one author will attend the meeting and will be available to present on the date and time assigned by the Program Committee. Authors will be notified of presentation dates and times at the time of notification of acceptance and are expected to make appropriate travel arrangements to ensure that at least one of the abstract's authors will be in attendance. In addition, presenting authors are expected to register to attend the meeting by the deadline set forth in their acceptance notification. Abstracts for which an author is not pre-registered by the dates set forth will automatically be withdrawn from the program. Poster setup is tentatively scheduled for Thursday, February 9 and displayed Friday, February 10 – Saturday, February 11, 2017.

Poster Cancellation Policy

At least one author or co-author on all posters is expected to register to attend the meeting for which they are accepted by the deadlines set forth in their acceptance notification. If this author cancels their registration prior to the meeting, the poster may be withdrawn from the program.

Important Dates to Remember

October 1, 2016	Poster Abstract Submission Open
November 15, 2016	Poster Abstract Submission Closes
December 1, 2016	Young Investigator Travel Awards Announced (See page 8 for more information)
December 15, 2016	Poster Abstract Acceptance Notifications Sent

Submit online at www.acns.org!

Young Investigator Travel Award

Several young physician investigators will be awarded travel fellowships of \$1,000 each. These fellowships are determined based upon the ranking of the applicant's abstract by the Program Committee.

Eligibility Criteria

Applicant must be: (1) a current ACNS member or apply for membership concurrent with application for Travel Award; (2) a resident, fellow, or junior faculty within two years of completion of fellowship training; and (3) be the first author of an abstract submitted to the Annual Meeting. Applicant must meet the entire aforementioned criteria in order to be considered for the Young Investigator Travel Award. Prior recipients of Travel Fellowships are not eligible for additional Travel Fellowship awards.

Selection

Awardees will be chosen based on the quality of submitted abstracts, as ranked by the ACNS Program Committee. A total of six travel fellowships will be awarded for the ACNS 2017 Annual Meeting. Additional travel awards may be awarded if funding is available.

Award

Awardees will receive complimentary registration for the meeting and reimbursement of travel funds up to \$1,000, upon provision of an expense voucher, and original receipts. Awardees will be recognized at an award ceremony during the Annual Meeting. Awards are one-time only.

Procedures

Upon close of abstract submission, the ACNS Program Committee will review, evaluate, and rank abstracts, including all candidates for consideration to receive a travel award. The Program Committee Co-Chairs will select the final six awardees based on the collective rankings from the Program Committee. ACNS will notify awardees of decision no later than December 1, 2016. Awardees will then be expected to accept invitation by the deadlines set forth in their acceptance notifications, as well as register for the Annual Meeting, and secure travel arrangements. Upon provision of an expense voucher, including original receipts, reimbursement will be provided to award recipients, no later than 30 days after the Annual Meeting.

Cancellation Policy

Award recipients are expected to register to attend the Annual Meeting by the deadlines set forth in their acceptance notification. If an award recipient cancels their registration prior to the meeting, the Travel Award may be withdrawn from the individual and designated to another candidate.



Award Recipients & Lectures

Friday, February 10, 2017

2017 PIERRE GLOOR AWARD PRESENTATION & LECTURE

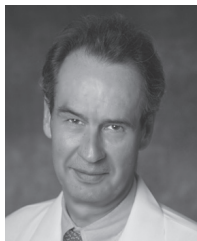


Charles M. Epstein, MD, FACNS

The Gloor Award is presented annually for outstanding current contributions to clinical neurophysiology research. Dr. Epstein will be recognized and will deliver the 2017 Gloor Address on Friday, February 10, 2017 at the ACNS Annual Meeting. Dr. Epstein is Professor of Neurology at Emory University School of Medicine in Atlanta, Georgia and a former president of ACNS.

Saturday, February 11, 2017

2017 HERBERT H. JASPER AWARD PRESENTATION & LECTURE



"The Epileptogenic Zone"

Hans Lüders, MD, PhD, FACNS

The Jasper Award is presented annually to an individual who has made a lifetime of outstanding contributions to the field of clinical neurophysiology. Dr. Lüders will be recognized during a general session on Saturday, February 11, 2017. Dr. Lüders is a Professor in the Department of Medicine at Cleveland Clinic Lerner College of Medicine of Case Western Reserve in Cleveland.

2017 ROBERT S. SCHWAB AWARD



"Modern Clinical Neurophysiology in ALS-Tracing Lower & Upper Motor Neuron Involvement"

Reinhard Dengler, MD

The Schwab Award is presented annually to an individual who has made significant contributions in the area of clinical neurophysiology. Dr. Dengler will be recognized and will deliver the 2017 Schwab Lecture on Saturday, February 11, 2017. Dr. Dengler is the Chairman and a Professor of Neurology at Hannover Medical School .



Annual Courses Program

Wednesday, February 8, 2017

6:30-9:30AM

Continental Breakfast

7:00-8:30AM

801: EEG/EMG/NIOM Technology

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

7:00am EMG Technology
 Seward Rutkove, MD

7:45am EEG Technology
 Susan T. Herman, MD, FACNS

7:00-8:30AM

802: Applied Cases in Central Neurophysiology & Video EEG

Co-Directors: Selim R. Benbadis, MD, FACNS & William O. Tatum, IV, DO, FACNS

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

9:00AM-5:00PM

811: Neurophysiologic Intraoperative Monitoring (NIOM) Part I

Co-Directors: Aatif M. Husain, MD, FACNS & Mirela V. Simon, MD, MSc, FACNS

9:00am Welcome & Introductions

9:05am SEP Monitoring
 Viet Nguyen, MD, FACNS

9:45am MEP Monitoring
 Leslie H. Lee, MD FACNS

10:25am Morning Break

10:40am BAEP Monitoring
 Alan D. Legatt, MD, PhD, FACNS

11:20am EEG Monitoring
 Michael McGarvey, MD, FACNS

12:00pm Discussion

12:15pm Lunch

1:15pm EMG & Peripheral Nerve Monitoring
 Gloria M. Galloway, MD, MBA, FACNS

1:55pm Cranial Nerve Monitoring
 Jaime R. Lopez, MD, FACNS

2:35pm Anesthesia
 Patrick Bolton, MD

3:15pm Afternoon Break

3:30pm Troubleshooting
 Jay L. Shiels, PhD, DABNM, FACNS

4:10pm Billing Issues
 Marc R. Nuwer, MD, PhD, FACNS

4:50pm Discussion

9:00AM-5:00PM

812: Intensive Care Unit EEG Monitoring (ICU EEG)

Co-Directors: Jong Woo Lee, MD, PhD, FACNS & Courtney J. Wusthoff, MD, FACNS

9:00am Overview of ICU EEG Monitoring in Neonates, Children & Adults
 Nicholas Abend, MD, FACNS

9:40am Guidelines & Logistics of ICU EEG Monitoring
 Susan T. Herman, MD, FACNS

10:10am cEEG Interpretation: Background, Reactivity, Artifacts, & ACNS Terminology
 Lawrence J. Hirsch, MD, FACNS

10:40am Morning Break

11:00am cEEG Interpretation: The Ictal-Interictal Continuum
 Suzette M. LaRoche, MD, FACNS

11:30am Treatment of Nonconvulsive Seizures & Status Epilepticus
 Aatif M. Husain, MD, FACNS

12:00pm Lunch

1:00pm ICU EEG Reading Session: Adult Cases
 Elizabeth Gerard, MD, FACNS

1:15pm cEEG Interpretation: Neonates
 Tammy Tsuchida, MD, PhD, FACNS

1:45pm ICU EEG Reading Session: Neonatal & Pediatric Cases
 William B. Gallentine, DO, FACNS

2:00pm Finances, Billing & Coding
 Marc R. Nuwer, MD, PhD, FACNS

2:30pm Quantitative EEG for Seizure Detection
 Cecil D. Hahn, MD, MPH, FACNS

3:00pm Afternoon Break

3:20pm Quantitative EEG for Ischemia Detection
 M. Brandon Westover, MD, PhD

3:50pm Multimodal Monitoring in Acute Brain Injury
 Jan Claassen, MD, PhD

4:30pm cEEG of Anoxic Brain Injury & Targeted Temperature Management
 Jeffrey Britton, MD, FACNS

Annual Courses Program

Thursday, February 9, 2017

6:30-9:30AM

Continental Breakfast

7:00-8:30AM

901: Stereo-EEG

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

7:00am Patient & Electrode Selection

Stephan U. Schuele, MD, MPH, FACNS

7:30am Image Processing & Surgical Planning

Giridhar Kalamangalam, MD, DPhil, FACNS

8:00am Nuts & Bolts of SEEG Implantation

Nitin Tandon, MD

7:00-8:30AM

902: Non-invasive Brain Stimulation Technology

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

7:00am The Basics of TMS & TDCS: Circuits, Physics, & Specific Neuronal Elements

Charles M. Epstein, MD, FACNS

7:45am Putting the Pieces Together: Ion-Channels, Transmitters, Classic & Contemporary Studies in Non-Invasive Brain Stimulation

Alexander Rotenberg, MD, PhD

7:00-8:30AM

903: Autonomic Neurophysiology

Co-Directors: Jeffrey Liou, DO & Claus Reinsberger, MD, PhD, FACNS

7:00am Introduction

7:05am Anatomy & Physiology of the Autonomic Nervous System

Jeffrey Liou, DO

7:40am Neurological Disorders with Central Autonomic Failure

Alexandra Hovaguimian, MD

8:05am Peripheral Autonomic Failure

Brent Goodman, MD

9:00AM-2:30PM

911: EMG

Co-Directors: Daniel Menkes, MD, FACNS & Devon Rubin, MD, FACNS

9:00am Pitfalls of NCS

Devon I. Rubin, MD, FACNS

9:45am Electrodiagnostic Evaluation of Peripheral Neuropathy

Daniel Menkes, MD, FACNS

10:30am Morning Break

10:45am Electrodiagnostic Approach to Neuromuscular Junction Disorders

Brent Goodman, MD

11:30am Electrodiagnostic Features of Hyperexcitable Nerve Syndromes

Ruple Laughlin, MD

12:15pm

Lunch

1:15pm

EMG Waveform Identification

Devon I. Rubin, MD, FACNS

9:00AM -5:00PM

921: Neurophysiologic Intraoperative Monitoring (NIOM) Part II

Co-Directors: Aatif M. Husain, MD, FACNS & Mirela V. Simon, MD, MSc, FACNS

9:00am Welcome & Introductions

9:05am Motor Mapping & Monitoring

Charles Yingling, PhD, FACNS

9:45am Medicolegal & Business Issues

George R. Lee, MD

10:25am Morning Break

10:40am Value of NIOM

John Ney, MD, MPH

11:20am Pedicle Screw Evaluation

Bernard Allen Cohen, PhD, FACNS FASNM

12:00pm Q & A Discussion

12:15pm Lunch

1:15pm Language Mapping

David Gloss, MD, FACNS

1:55pm Electrocorticography

Mirela V. Simon, MD, FACNS

2:35pm Pelvic Floor Monitoring

Stanley Skinner, MD, FACNS

3:15pm Afternoon Break

3:30pm D Wave Monitoring with Case Discussions

Eva K. Ritzl, MD, FACNS

4:10pm Sensory & Motor Spinal Cord Mapping

Andres Gonzalez, MD, MMM, FACNS

4:50pm Discussion

9:00AM-5:00PM

922: Electrocorticography (ECoG) & Intracranial EEG

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

9:00am Introduction & Overview

9:15am Temporal Lobe Epilepsy: When to do Invasive Monitoring & How to Choose Electrode Type

Giridhar Kalamangalam, MD, DPhil, FACNS

9:45am Extratemporal Epilepsy: When to do Invasive Monitoring & How to Choose Electrode Type

Stephan U. Schuele, MD, MPH, FACNS

10:15am Surgical Techniques Including Risks of Invasive Implantations

Daniel J. Curry, MD

10:45am Morning Break

Annual Courses Program

Thursday, February 9, 2017

11:00am	Patterns of Seizure Onsets & Spread, Underlying Pathological Substrate & Outcomes <i>Lawrence J. Hirsch, MD, FACNS</i>
11:30am	Intracranial EEG in Children <i>Juan Bulacio, MD</i>
12:00pm	Lunch
1:00pm	Concept of "Epileptogenic Zones/Networks" & Identifying them with Invasive EEG <i>TBD</i>
1:45pm	Case Discussion I: Nonlesional Neocortical Epilepsy <i>Jay Gavvala, MD</i>
2:05pm	Case Discussion II: FCD: ECoG vs. Invasive Implantation <i>Lawrence J. Hirsch, MD, FACNS</i>
2:25pm	Case Discussion III: FCD: Bitemporal Lobe Epilepsy <i>Christopher Skidmore, MD</i>
2:45pm	Discussion
3:00pm	Afternoon Break
3:15pm	Functional Mapping with Intracranial EEG & Cortical Stimulation <i>Anthony Ritaccio, MD</i>
4:00pm	Wideband Intracranial EEG & Localization of Seizure Foci <i>Jean Gotman, PhD, FACNS</i>
4:45pm	Discussion

11:30AM-2:00PM

931: 4th Annual CNP Program Director's Symposium

Director: *Jeffrey Britton, MD, FACNS*

11:30am	Lunch
12:00pm	Fellowship Match - Pros & Cons <i>Jeffrey Britton, MD, FACNS</i>
12:30pm	Education Innovations you can Initiate Tomorrow <i>Jeffrey Britton, MD, FACNS</i> <i>Lily Wong-Kiesel, MD</i> <i>Jay S. Pathmanathan, MD, PhD</i>
1:30pm	Words to the Wise from ACGME <i>Imran I. Ali, MD, FACNS</i>

3:00-5:00PM

941: Applied Cases in Peripheral Neurophysiology

Co-Directors: *Ruple Laughlin, MD & Jaime R. López, MD, FACNS*

3:00pm	Introduction
3:05pm	Applied Cases in Neuropathy <i>Ruple Laughlin, MD</i>
3:55pm	Applied Cases in Neuromuscular Junction Disorders <i>Julie Khoury, MD</i>
4:25pm	Applied Cases in Myopathies & Myotonic Disorders <i>Amy Visser, MD</i>
4:50pm	Wrap Up & Panel Discussion

Friday, February 10, 2017

7:00-10:00AM

1301: Video-EEG

Co-Directors: *Phillip Pearl, MD, FACNS & Michael R. Sperling, MD, FACNS*

7:00am	How to Build & Structure a Video-EEG Monitoring Unit <i>William O. Tatum, IV, DO, FACNS</i>
7:30am	Video Analysis of Ictal Behaviors <i>Nancy Foldvary-Schaefer, DO</i>
8:00am	Scalp EEG in Epilepsy <i>Phillip Pearl, MD, FACNS</i>
8:30am	Intracranial EEG <i>Michael R. Sperling, MD, FACNS</i>
9:00am	Case Studies <i>Christopher Skidmore, MD</i>

7:00-10:00AM

1302: Evoked Potentials

Co-Directors: *Viet Nguyen, MD, FACNS & Elayna Rubens, MD, FACNS*

7:00am	Introduction & Visual Evoked Potentials (VEPs) <i>Elayna Rubens, MD, FACNS</i>
7:30am	Somatosensory Evoked Potentials (SEPs) <i>Steven Karceski, MD</i>

8:00am	Brainstem Auditory Evoked Potentials (BAEPs) <i>Alan D. Legatt, MD, PhD, FACNS</i>
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8:30am	Discussion
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8:35am	Break
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8:45am	EP Examples & Case Discussions <i>Viet Nguyen, MD, FACNS (Moderator)</i> <i>Aatif M. Husain, MD, FACNS</i> <i>Steven Karceski, MD</i> <i>Alan D. Legatt, MD, PhD, FACNS</i> <i>Elayna Rubens, MD, FACNS</i> <i>Reza Zarnegar, DO, FACNS</i>
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7:00-10:00AM

1303: Neonatal & Pediatric EEG

Co-Directors: *Mark Scher, MD & Asim Shahid, MD*

7:00am	Practice & Pitfalls of Neonatal EEG <i>Mark Scher, MD</i>
8:00am	Challenges in Pediatric EEG Interpretation <i>Jun Park, MD</i>
9:00am	Use of Signal Processing in Pediatric & Neonatal EEG <i>Kenneth Loparo, PhD</i>

Annual Meeting Program

Friday, February 10, 2017

10:00-10:30AM

Coffee Break – Visit Exhibits & Poster Viewing

10:30AM-12:15PM

Opening General Session

10:30am Welcome

10:40am President's Lecture
Jonathan C. Edwards, MD, FACNS

11:30am Gloor Award Presentation & Lecture
Charles M. Epstein, MD, FACNS

12:15-1:30PM

Lunch- Visit Exhibits & Poster Tours

1:30-3:30PM

Concurrent Sessions

1011: IFCN Symposium: Movement Control – The Clinical Neurophysiologist's Perspective

Session Director: Mark Hallett, MD, FACNS

1:30pm Motor Cortex Function Tested by Transcranial Magnetic Stimulation
Ulf Ziemann, MD

2:00pm Cerebellar Stimulation & Prism Adaptation
Yoshikazu Ugawa, MD

2:30pm Brain Reactions to the Use of Robotic Hand in Amputees
Paolo Maria Rossini, MD, PhD

3:00pm The Physiology of Will
Mark Hallett, MD, FACNS

1012: Epileptic Encephalopathy with CSWS: An Overview & Practical Approach

Session Director: Kevin Chapman, MD

1:30pm What's in a Name – ESES/CSWS Definition & Evaluation
Ivan Sanchez Fernandez, MD

2:05pm What is the Influence of Spikes on Cognitive Impairment?
Jennifer Vannest, PhD

2:40pm The Treatment of ESES/CSWS – Options & Practical Approaches
Tobias Loddenkemper, MD, FACNS

3:15pm Discussion

1:30-3:00PM

Tips & Tricks for MEP in Spinal Surgery

Session Director: David Gloss, MD, FACNS

1:30pm Evidence for MEPs in Spinal Surgery
David Gloss, MD, FACNS

2:00pm Tips & Tricks for MEPs in Spinal Surgery
Eva K. Ritzl, MD, FACNS
Mirela V. Simon, MD, MSc, FACNS

3:30-4:00PM

Coffee Break

4:00-5:30PM

Concurrent Sessions

1021: Clinical Neurophysiology as a Window to Consciousness

Session Director: Meriem Bensalem-Owen, MD, FACNS

4:00pm Introduction – Epilepsy as a Model for the Study of Consciousness
Meriem Bensalem-Owen, MD, FACNS

4:10pm The Role of Clinical Neurophysiology in the Evaluation of Coma & Disorders of Consciousness
Peter W. Kaplan, MD, FRCP, FACNS

4:35pm Sleep & the Different States of Consciousness
Madeleine M. Grigg-Damberger, MD, FACNS

5:00pm Syncope & the Borderland of Consciousness
Kevin Nelson, MD

5:25pm Discussion

1022: Mapping Epileptogenic & Functional Cortex in Tumor-Related Epilepsy

Session Director: Stephan U. Schuele, MD, MPH, FACNS

4:00pm Diagnostic Video EEG Monitoring of Brain Tumors
Jessica W. Templer, MD

4:20pm Presurgical Evaluation in Tumor-Related Epilepsy
Stephan U. Schuele, MD, MPH, FACNS

4:45pm Functional Mapping
Jeffrey Politsky, MD, FRCP(c)

5:10pm ECoG vs. Invasive EEG to Identify Seizure Focus in TRE
Michael R. Sperling, MD, FACNS

1023: Clinical Neurophysiology Around the World

Session Director: Ioannis Karakis, MD, PhD, MSc

4:00pm Clinical Neurophysiology in Africa
Jaffar Khan, MD

4:25pm Clinical Neurophysiology in Asia
Chong Tin Tan, MD, FRCP

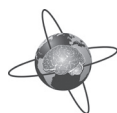
4:50pm Clinical Neurophysiology in South America
Jorge G. Burneo, MD

5:15pm Clinical Neurophysiology in the Western World
Ioannis Karakis, MD, PhD, MSc

1024: SIG: Clinical Neurophysiology Resident & Fellows Special Interest Group

Session Director: Andrea Hakimi, DO, FACNS

This session will highlight cases submitted by Residents and Fellows on a variety of Clinical Neurophysiology topics or quality improvement projects.



Annual Meeting Program

Friday, February 10, 2017

1025: Joint Symposium ACNS/Mexican Society of Clinical Neurophysiology: Beyond Rhythms & Spikes: How the EEG Can Reveal the Dysfunctional Dynamics of Complex Networks in Psychiatric & Neurodevelopmental Disorders

Session Directors: Claudia Paz, MD & Armando Tello, MD, PhD



4:00pm The Crossroads of Anxiety: Distinct Neurophysiological Maps for Different Symptomatic Groups
Montserrat Gerez, MD, PhD

4:25pm Praxis & Visuo-Motor Network Function in Healthy Subjects & Autism Spectrum Disorders (ASD)
Joshua Ewen, MD, FACNS

4:50pm QEEG in Obsessive Compulsive Disorder
Humberto Nicolini, MD, PhD

5:30-5:45PM
Walking Break

5:45-7:00PM
Neurophys Bowl

7:00-8:30PM
Welcome Reception

Saturday, February 11, 2017

7:00-8:00AM

Continental Breakfast – Visit Exhibits & Posters

8:00-9:30AM

Concurrent Sessions

1111: Interpreting Challenging NCS & Needle EMG Findings - An Interactive Case-Based Approach

Session Director: Devon I. Rubin, MD, FACNS

8:00am Challenging NCS & Needle EMG Findings - 1
Paul E. Barkhaus, MD

8:30am Challenging NCS & Needle EMG Findings - 2
Elliot Dimberg, MD, FACNS

9:00am Challenging NCS & Needle EMG Findings - 3
Devon I. Rubin, MD, FACNS

1112: Aggressiveness of Treatment of Refractory Status Epilepticus: A Clinical Neurophysiology Approach

Session Director: Frank W. Drislane, MD, FACNS

8:00am Patients with Refractory Status Epilepticus should be Treated Aggressively
Lawrence J. Hirsch, MD, FACNS

8:30am Aggressive Treatment of Patients with Refractory Status Epilepticus can be Dangerous for Their Health
Peter W. Kaplan, MD, FRCP, FACNS

9:00am Trying to get the Best of Both Positions
Frank W. Drislane, MD, FACNS

1113: Competing Techniques for Refining the Location of the Epileptogenic Zone: Magnetoencephalography & High Density EEG

Session Director: Richard C. Burgess, MD, PhD, FACNS

8:00am Comparison of Intracranial EEG Potentials with Source Localization from Scalp EEG & MEG: Location Accuracy & Implantation Guide
Eliane Kobayashi, MD, PhD

8:30am Simultaneous High Density Scalp EEG & MEG
Robert C. Knowlton, MD

9:00am Theoretical & Practical Considerations for Localization of the Epileptogenic Zone from High Density EEG & MEG
Richard C. Burgess, MD, PhD, FACNS

1114: Cortical Stimulation: Theory & Practice

Session Director: Giridhar Kalamangalam, MD, DPhil, FACNS

8:00am Physiology of Non-Invasive Cortical Stimulation
Mark Hallett, MD, FACNS

8:20am Measuring & Modifying Cortical Excitability with AEDs
Ulf Ziemann, MD

8:40am Modelling the Effects of Cortical Stimulation: Afterdischarge
Giridhar Kalamangalam, MD, DPhil, FACNS

9:00am From Science to Bedside: Eloquent Function Mapping
Anthony L. Ritaccio, MD

9:20am Panel Discussion

Annual Meeting Program

Saturday, February 11, 2017

1115: Joint ACNS/AECN (Argentinian Society) Symposium: Innovations in NIOM Interpretation

Session Director: Martin J. Segura, MD, PhD



- 8:00am A New Warning Criterion for MEP-NIOM & an Alternative Gold Standard to Better Identify "False Positive" Findings
Martin J. Segura, MD, PhD
- 8:25am Proposed Algorithm for Decision Making in the Face of Neurophysiological Alarms During Spinal Deformity Surgeries
Ricardo J. Ferreira, MD
- 8:50am New Alarm Criteria for SEP/BAEP Monitoring
Parthasarathy Thirumala, MD, FACNS
- 9:15am Discussion

9:30-10:00AM

Coffee Break – Visit Exhibits & Poster Viewing

10:00-11:00AM

General Session

- 10:00am Young Investigator Travel Award Presentation
- 10:15am Jasper Award Presentation & Lecture: The Epileptogenic Zone
Hans Lüders, MD, PhD, FACNS

11:00-11:15AM

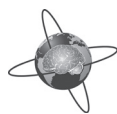
Walking Break

11:15AM-12:45PM

Concurrent Sessions

1131: IFCN Symposium: The Clinical Neurophysiology of Neuromuscular Disease

Session Director: TBD



- 11:15am Action Potential & Impulse Conduction in Human Myelinated Axons
David Burke, MD, DSc
- 11:45am SFEMG in Neuromuscular Disease
Liying Cui, MD
- 12:15pm Evaluation of Sensory Neuropathies
Renato Verdugo, MD

1132: Consensus for Recording & Analysis of Wide-Band EEG in Clinical Epilepsy

Session Director: Akio Ikeda, MD, PhD

- 11:15am Interictal Slow Shifts by Macroinvasive Electrodes
Akio Ikeda, MD, PhD
- 11:35am Ictal Slow Shifts by Macroinvasive Electrodes
Pradeep Modur, MD, FACNS

- 11:55am High Frequency Oscillation (HFO) by Microelectrodes
Greg Worrell, MD

- 12:15pm High Frequency Oscillation (HFO) by Macroinvasive Recording
Jean Gotman, PhD, FACNS

1133: Uso de EEG en Cuidado Intensivo (Use of EEG in the ICU)

Note: This session will be presented in Spanish.

Session Director: Adriana Bermeo-Ovalle, MD, FACNS

- 11:15am Aspectos Técnicos, Limitaciones y Ventajas del uso de EEG en la UCI (Technical Aspects, Advantages & Limitations of the Use of EEG in the ICU)
Adriana S. Tanner, MD
- 11:40am Patrones Confusos de EEG en la UCI: Status Triphasicus vs. Status Epilepticus (Patterns in the ICU: Status Triphasicus vs. Status Epilepticus)
Andres M. Kanner, MD
- 12:05pm Principios y uso de EEG Cuantitativo en UCI (Principles & Use of qEEG in ICU)
Adriana Bermeo-Ovalle, MD, FACNS
- 12:25pm Uso de EEG para Diagnostico y Manejo de Status Epilepticus (Use of EEG for Diagnosis & Management of Status Epilepticus)
Juan G. Ochoa, MD

12:45-1:30PM

Lunch- Visit Exhibits & Posters

1:30-2:00PM

Annual Business Meeting

2:00-3:30PM

Concurrent Sessions

1151: Nerve Conduction Testing in Entrapment Neuropathies

Session Director: Gloria M. Galloway, MD, MBA, FACNS

- 2:00pm Common Entrapments of the Upper Extremities
Gloria M. Galloway, MD, MBA, FACNS
- 2:15pm Common Entrapments of the Lower Extremities
Mark Ross, MD, FACNS
- 2:30pm Workshop Skills Session
Jaime R. Lopez, MD, FACNS
- 3:00pm Workshop Skills Session
Gloria M. Galloway, MD, FACNS
Mark Ross, MD, FACNS

Annual Meeting Program

Saturday, February 11, 2017

1152: Advances in Prognostication & Management of Coma Following Cardiac Arrest

Session Director: M. Brandon Westover, MD, PhD

- 2:00pm Self-Fulfilling Prophecies, Moral Dilemmas, & the Need for Quantitative Knowledge in Hypoxic Ischemic Encephalopathy
M. Brandon Westover, MD, PhD
- 2:10pm Advances in the Qualitative & Quantitative Interpretation of Prognostic EEG Features
Michel J. van Putten, MD, MSc, PhD
- 2:30pm Quantitative Assessment of EEG Background Reactivity in Hypoxic Ischemic Encephalopathy
Edilberto Amorim, MD
- 2:45pm Quantifying Dynamic EEG Features in Prognosis of Hypoxic Ischemic Encephalopathy
Mohammad Ghassemi, DPhil
- 3:00pm Electrodermal Activity Trends in Hypoxic Ischemic Encephalopathy
Jong Woo Lee, MD, PhD, FACNS
- 3:20pm Treatment of Electroencephalographic Status Epilepticus after Cardiopulmonary Resuscitation: The TELSTAR Trial
Barry Ruijter, MSc

1153: Neurostimulation & Networks: Management of Refractory Epilepsy

Session Director: Dawn Eliashiv, MD, FACNS

- 2:00pm Neurostimulation: Why Does it Work & What are the Future Directions?
Dawn Eliashiv, MD, FACNS
- 2:20pm New Insights to Vagus & Trigeminal & Tachycardia Based Closed Loop Neurostimulation
Christopher DeGiorgio, MD
- 2:40pm Strategies in Patient Selection & Parameter Setting with Responsive Neurostimulation
Lawrence J. Hirsch, MD, FACNS
- 3:00pm Added Value of Deep Brain Stimulation in Epilepsy
Robert Gross, MD, PhD
- 3:20pm Discussion

1154: Cortico-Cortical Evoked Potentials & High Frequency Oscillations – Brain Mapping Made Easy

Session Director: Daniela Minecan, MD, FACNS

- 2:00pm The ABCs of High Frequency Oscillations & their Clinical Relevance
Rafeed Alkawadri, MD
- 2:20pm Cortico-Cortical Evoked Potentials – A Practice Review
TBD
- 2:40pm Language Mapping – High Gamma Activity & Cortico-Cortical Evoked Potentials Recordings
Anthony L. Ritaccio, MD, FAAN, FANA
- 3:00pm Wrap Up & Future Directions
TBD

1155: Joint ACNS/IFCN Latin America Chapter Symposium: Transcranial Motor Evoked Potentials Warning Criteria

Session Director: Paulo Andre Kimaid, MD, PhD

- 2:00pm The Amplitude Decrease Warning Criteria
Paulo Andre A. Kimaid, MD, PhD
- 2:30pm The Threshold Level Warning Criteria
Jaime R. Lopez, MD, FACNS
- 3:00pm The All-or-Nothing Warning Criteria
Francisco Soto, MD

3:30-3:45PM

Walking Break

3:45-5:15PM

Concurrent Sessions

1161: Understanding the Utility of Stereo Electroencephalography (SEEG) in Intractable Focal Epilepsy through Illustrative Cases

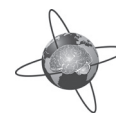
Session Director: Jun T. Park, MD

- 3:45pm Guiding Principles Behind Stereo Electroencephalography
Hans Lüders, MD, PhD, FACNS
- 4:15pm Implantation Approach: Adults, Children
Jonathan Miller, MD, FACNS
- 4:35pm Illustrative Cases: Adults
Guadalupe Fernandez Baca Vaca, MD
- 4:55pm Illustrative Cases: Children
Asim Shahid, MD

1162: Wearable Seizure Detection Devices: Are They Ready for Primetime? A Critical Look at Peri-Ictal Physiology & Applicable Technology

Session Director: Barbara Jobst, MD & Elson Lee So, MD, FACNS

- 3:45pm Introduction
Elson Lee So, MD, FACNS
- 3:50pm Why the Need for Seizure Detection Wearables
Barbara Jobst, MD
- 4:00pm Which Peri-Ictal Neurophysiological Changes Can be Mapped by Current Technology
Daniel Friedman, MD
- 4:25pm How Accurate are Current Seizure Detection Wearables?
Tobias Loddenkemper, MD, FACNS
- 4:50pm Open Forum with Audience Participation



Annual Meeting Program

Saturday, February 11, 2017

1163: The Frontal Lobe Club

Session Director: Daniela Minecan, MD, FACNS

- 3:45pm The Functional Anatomy of the Frontal Lobe
Daniela Minecan, MD, FACNS
- 4:00pm Frontal Lobe Seizure Subtypes with a Focus on Semiology
Rafeed Alkawadri, MD
- 4:20pm Frontal Lobe Seizures – Invasive Monitoring Approaches
Juan Bulacio, MD
- 4:40pm Frontal Lobe Seizures – What about the Children?
TBD
- 5:00pm Wrap Up & Recommendations for Frontal Lobe Epilepsy
Stephan U. Schuele, MD, MPH, FACNS

1164: Proponents vs. Opponents: You Really Mean I Need to Order a MEG in 2017?

Session Director: Anto Bagic, MD, PhD, FACNS

- 3:45pm Informed Skeptic – We Wish, We Profess, but thus Spoke the NAEG Centers' Directors
Anto Bagic, MD, PhD, FACNS
- 4:10pm Enlightened Proponent – If you just could See How it Works in Our Hands...
Richard C. Burgess, MD, PhD, FACNS
- 4:35pm Enlightened Opponent – Know What you Have & When to Use It!
Ronald Lesser, MD, FACNS
- 5:00pm Discussion

1165: SIG: Neurophysiological Intraoperative Monitoring (NIOM)

Session Director: Jaime R. Lopez, MD, FACNS

- 3:45pm Continuous Neuromonitoring Part 2: Fact or Fiction?
Leslie H. Lee, MD, FACNS
- 4:10pm Career Opportunities in NIOM – An Overview
Gowri Lakshminarayan, MD
- 4:35pm Mexican National Clinical Practice Guidelines in NIOM
Lilia de la Maza, MD
- 5:00pm Open Forum Discussion

5:15-5:30PM Walking Break

5:30-7:00PM General Session

- 5:30pm Research Highlights Program
The Research Highlights Program is designed to present the best of the best in research in various Clinical Neurophysiology fields. There will be three poster abstracts selected to present in the program.
- 6:15pm Schwab Award Presentation & Lecture: Modern Clinical Neurophysiology in ALS-Tracing Lower & Upper Motor Neuron Involvement
Reinhard Dengler, MD

7:00-8:00PM Neurology of Musical Masters

Phillip Pearl, MD, FACNS

Sunday, February 12, 2017

7:00-8:00AM Continental Breakfast

8:00-9:30AM

Concurrent Sessions

1201: Joint ACNS/DGKN (German Society) Symposium: The Role of Neurophysiology for Acute Sports Injuries

Session Director: Claus Reinsberger, MD, PhD

- 8:00am Neurophysiological Assessment of Acute Sports Related Peripheral Nerve Injuries
Reinhard Dengler, MD
- 8:30am Neurophysiological Assessment of Acute Sports Related Injuries of the Central Nervous System
Claus Reinsberger, MD, PhD, FACNS
- 9:00am Sleep & Sports Injuries – Prevention, Sleep Post Concussion & Circadian Shifts
Madeleine Grigg-Damberger, MD, FACNS



1202: Neurophysiologic Intraoperative Monitoring of Vascular Disorders

Session Director: Jaime R. Lopez, MD, FACNS

- 8:00am NIOM of Cerebrovascular Surgery & Endovascular Procedures
Jaime R. Lopez, MD, FACNS
- 8:25am Neurophysiologic Monitoring of Aortic Aneurysm Repair
Leslie H. Lee, MD, FACNS
- 8:50am NIOM of Cardiac Surgery
Michael McGarvey, MD, FACNS
- 9:15am Case Presentations & Discussion

Annual Meeting Program

Sunday, February 12, 2017

1203: Advances to Improve Accuracy in EEG Interpretation

Session Director: Suzette M. LaRoche, MD, FACNS

- 8:00am Automate Detection of Interictal Epileptiform Activity
Jonathan J. Halford, MD
- 8:20am Determination of Reactivity in the Comatose Population
M. Brandon Westover, MD, PhD
- 8:40am Standardized Critical Care EEG Terminology
Suzette M. LaRoche, MD, FACNS
- 9:00am Defining & Diagnosing Non-Convulsive Status Epilepticus
Emily J. Gilmore, MD

1204: SIG: Invasive EEG – Interictal Epileptiform Activity & Beyond

Session Director: Stephan U. Schuele, MD, MPH, FACNS

- 8:00am EEG/MEG Source Imaging & Intracranial Correlation
John Ebersole, MD
- 8:15am Non-Epileptiform Interictal Abnormalities on ECoG
Douglas R. Nordli, MD, FACNS
- 8:30am Activation Methods: Pros & Cons
Andres M. Kanner, MD
- 8:45am IED & HFO in the Operating Room
Greg Worrell, MD
- 9:00am IED & HFO: Correlation with Ictal Onset Zone
Jean Gotman, PhD, FACNS
- 9:15am Discussion

9:30-10:00AM

Coffee Break

10:00-11:30AM

Concurrent Sessions

1211: Joint ACNS/Brazilian Society

Symposium: The Neurology & Neurophysiology of Zika Virus

Session Director: Luis Otavio Caboclo, MD, MSc, PhD

- 10:00am Zika Virus Infection: The Outbreak of Zika-Associated Microcephaly
Eli M. Mizrahi, MD, FACNS
- 10:25am Zika Virus Encephalitis
Luis Otavio Caboclo, MD, MSc, PhD
- 10:50am Guillain-Barré Syndrome Associated with Zika Virus
Marcondes Franca, MD, PhD
- 11:15am Discussion



1212: Practical Applications of Unconventional Neurophysiologic Intraoperative Monitoring (NIOM) Techniques

Session Director: Leslie H. Lee, MD, FACNS

- 10:00am Practical Applications of Pudendal/Perianal & Saphenous Nerve SSEPs
Leslie H. Lee, MD, FACNS
- 10:30am Practical Intraoperative Techniques & Applications: Bulbocavernosus Reflex, F-Wave, & H-Reflex Responses
Guillermo Martin Palomeque, MD
- 11:00am Practical Approach & Techniques of Intraoperative Brainstem Mapping
Mirela V. Simon, MD, MSc, FACNS

1213: Defining Research Priorities in Refractory Status Epilepticus Management

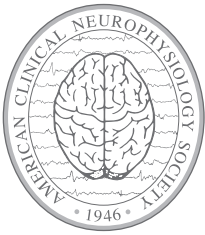
Session Director: Cecil D. Hahn, MD, MPH, FACNS & Jong Woo Lee, MD, PhD, FACNS

- 10:00am RSE in Children: Current Management, Gaps in Knowledge, Research Priorities
Tobias Loddenkemper, MD, FACNS
- 10:20am RSE in Adults: Current Management, Gaps in Knowledge, Research Priorities
Jong Woo Lee, MD, PhD, FACNS
- 10:40am Clinical Trial Design & Individualized Therapy for RSE
Nicolas Gaspard, MD, PhD
- 11:00am Autonomous Drug Delivery Systems for RSE Management
M. Brandon Westover, MD, PhD
- 11:15am Planning Collaborative Clinical Trials for RSE Management
Cecil D. Hahn, MD, MPH, FACNS

1214: Infantile Spasms: A Look at One Old Epilepsy in the Modern Era

Session Director: Elia M. Pestana Knight, MD, FACNS

- 10:00am Animal Models of Epileptic Spasms & the Development of Novel Treatment Options
Morris H. Scantlebury, MD
- 10:25am Clinical Spectrum of Epileptic Spasms: From Classic to Subtle Forms & Across All Age Groups
Elia M. Pestana Knight, MD, FACNS
- 10:50am Variations of Hypsarrhythmia Pattern & Implications of its Identification in the Medical Management of Epileptic Spasms
Elia M. Pestana Knight, MD, FACNS
- 11:10am Electroclinical Features of Children with Epileptic Spasms who are Candidate to Epilepsy Surgery
Ahsan Moosa Naduvil Valappil, MD



AMERICAN CLINICAL NEUROPHYSIOLOGY SOCIETY
2017 ANNUAL MEETING & COURSES ADVANCE REGISTRATION FORM
February 8-12, 2017 | Sheraton Grand Phoenix | Phoenix, Arizona

To register for the meeting online, please visit: www.ACNS.org
Please type or print legibly

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Designation(s) (Example: MD, PhD, DO, etc.) _____ Institution _____

Mailing Address _____

City _____ State/Province _____ Zip/Postal Code _____

Country _____ Email _____

Telephone _____ Fax _____

ANNUAL COURSES – Wednesday, February 8 – Friday, February 10, 2017

Please note that the scheduled times of some Courses listed below may conflict. Please refer to the Preliminary Program for complete Course scheduling information to make your selections.

		ACNS Members	Non-Members	ACNS Junior & Technologist Members & International Attendees (Outside US & Canada)	Non-Member Residents, Fellows, Technologists & International Attendees (Outside US & Canada)
Wednesday, February 8					
7:00-8:30am	801: Short Course: EEG/EMG/NIOM Technology	<input type="checkbox"/> \$75	<input type="checkbox"/> \$95	<input type="checkbox"/> \$35	<input type="checkbox"/> \$65
7:00-8:30am	802: Short Course: Applied Cases in Clinical Neurophysiology & Video EEG	<input type="checkbox"/> \$75	<input type="checkbox"/> \$95	<input type="checkbox"/> \$35	<input type="checkbox"/> \$65
9:00am-5:00pm	811: Full Day Course: Neurophysiologic Intraoperative Monitoring (NIOM) Part I	<input type="checkbox"/> \$175	<input type="checkbox"/> \$230	<input type="checkbox"/> \$95	<input type="checkbox"/> \$140
9:00am-5:00pm	812: Full Day Course: Intensive Care Unit EEG Monitoring (ICU EEG)	<input type="checkbox"/> \$175	<input type="checkbox"/> \$230	<input type="checkbox"/> \$95	<input type="checkbox"/> \$140
Thursday, February 9					
7:00-8:30am	901: Short Course: Stereo-EEG	<input type="checkbox"/> \$75	<input type="checkbox"/> \$95	<input type="checkbox"/> \$35	<input type="checkbox"/> \$65
7:00-8:30am	902: Short Course: Non-Invasive Brain Stimulation Techniques	<input type="checkbox"/> \$75	<input type="checkbox"/> \$95	<input type="checkbox"/> \$35	<input type="checkbox"/> \$65
7:00-8:30am	903: Short Course: Autonomic Neurophysiology	<input type="checkbox"/> \$75	<input type="checkbox"/> \$95	<input type="checkbox"/> \$35	<input type="checkbox"/> \$65
9:00am-2:30pm	911: Half Day Course: EMG	<input type="checkbox"/> \$85	<input type="checkbox"/> \$100	<input type="checkbox"/> \$45	<input type="checkbox"/> \$75
9:00am-5:00pm	921: Full Day Course: Neurophysiologic Intraoperative Monitoring (NIOM) Part II	<input type="checkbox"/> \$175	<input type="checkbox"/> \$230	<input type="checkbox"/> \$95	<input type="checkbox"/> \$140
9:00am-5:00pm	922: Full Day Course: Electrocorticography (ECoG) & Intracranial EEG	<input type="checkbox"/> \$175	<input type="checkbox"/> \$230	<input type="checkbox"/> \$95	<input type="checkbox"/> \$140
11:30am-2:00pm	931: 4th Annual CNP Program Director's Symposium	<input type="checkbox"/> \$30	<input type="checkbox"/> \$30	<input type="checkbox"/> \$30	<input type="checkbox"/> \$30
3:00-4:30pm	941: Short Course: Applied Cases in Peripheral Neurophysiology	<input type="checkbox"/> \$75	<input type="checkbox"/> \$95	<input type="checkbox"/> \$35	<input type="checkbox"/> \$65
Friday, February 10					
7:00-10:00am	1301: Half Day Course: Video-EEG	<input type="checkbox"/> \$85	<input type="checkbox"/> \$100	<input type="checkbox"/> \$45	<input type="checkbox"/> \$75
7:00-10:00am	1302: Half Day Course: Evoked Potentials	<input type="checkbox"/> \$85	<input type="checkbox"/> \$100	<input type="checkbox"/> \$45	<input type="checkbox"/> \$75
7:00-10:00am	1303: Half Day Course: Neonatal & Pediatric EEG	<input type="checkbox"/> \$85	<input type="checkbox"/> \$100	<input type="checkbox"/> \$45	<input type="checkbox"/> \$75
Annual Courses Total (A): _____					

ANNUAL MEETING/SCIENTIFIC PROGRAM - Friday, February 10 through Sunday, February 12, 2017

	ACNS Members	Non-Members	ACNS Junior & Technologist Members & International Attendees (Outside US & Canada)	Non-Member Residents, Fellows, Technologists & International Attendees (Outside US & Canada)
Friday, February 10 - Sunday, February 12				
Annual Meeting Scientific Program	<input type="checkbox"/> \$350	<input type="checkbox"/> \$500	<input type="checkbox"/> \$235	<input type="checkbox"/> \$330
Annual Meeting Scientific Program One-Day Registration	<input type="checkbox"/> \$210	<input type="checkbox"/> \$300		
Annual Meeting Total (B): _____				

Please check below the sessions you plan to attend. Pick one from each time segment. This information will be used to assign sessions to available rooms based on anticipated attendance. You are not obligated to attend the sessions you check.

Friday, February 10	Saturday, February 11	Sunday, February 12
1:30-3:30pm <input type="checkbox"/> 1011: IFCN Symposium: Movement Control – The Clinical Neurophysiologist's Perspective <input type="checkbox"/> 1012: Epileptic Encephalopathy with CSWS: An Overview and Practical Approach <input type="checkbox"/> 1013: Tips and Tricks for MEP in Spinal Surgery 4:00-5:30pm <input type="checkbox"/> 1021: Clinical Neurophysiology as a Window to Consciousness <input type="checkbox"/> 1022: Mapping Epileptogenic & Functional Cortex in Tumor-Related Epilepsy <input type="checkbox"/> 1023: Clinical Neurophysiology Around the World <input type="checkbox"/> 1024: SIG – Clinical Neurophysiology Resident & Fellow Special Interest Group <input type="checkbox"/> 1025: Beyond Rhythms & Spikes: How the EEG Can Reveal the Dysfunctional Dynamics of Complex Networks in Psychiatric & Neurodevelopmental Disorders	8:00-9:30am <input type="checkbox"/> 1111: Interpreting Challenging NCS & Needle EMG Findings - An Interactive Case-Based Approach <input type="checkbox"/> 1112: Aggressiveness of Treatment of Refractory Status Epilepticus: A Clinical Neurophysiology Approach <input type="checkbox"/> 1113: Competing Techniques for Refining the Location of the Epileptogenic Zone: Magnetoencephalography & High Density EEG <input type="checkbox"/> 1114: Cortical Stimulation: Theory & Practice <input type="checkbox"/> 1115: Joint ACNS/ASECN (Argentinian) Symposium: Innovation in NIOM Interpretation 11:15am-12:45pm <input type="checkbox"/> 1131: IFCN Symposium: The Clinical Neurophysiology of Neuromuscular Disease <input type="checkbox"/> 1132: Consensus for Recording & Analysis of Wide-Band EEG in Clinical Epilepsy <input type="checkbox"/> 1133: Uso de EEG en Cuidado Intensivo (Use of EEG in the ICU) 2:00-3:30pm <input type="checkbox"/> 1151: Nerve Conduction Testing in Entrapment Neuropathies <input type="checkbox"/> 1152: Advances in Prognostication & Management of Coma Following Cardiac Arrest <input type="checkbox"/> 1153: Neurostimulation & Networks: Management of Refractory Epilepsy <input type="checkbox"/> 1154: Cortico-Cortical Evoked Potentials & High Frequency Oscillations - Brain Mapping Made Easy <input type="checkbox"/> 1155: Joint ACNS/IFCN-Latin American Chapter Symposium: Transcranial Motor Evoked Potentials Warning Criteria 3:45-5:15pm <input type="checkbox"/> 1161: Understanding the Utility of Stereoecephalography (SEEG) in Intractable Focal Epilepsy through Illustrative Cases <input type="checkbox"/> 1162: Wearable Seizure Detection Devices: Are They Ready for Primetime? A Critical Look at Peri-ictal Physiology and Applicable Technology <input type="checkbox"/> 1163: The Frontal Lobe Club <input type="checkbox"/> 1164: Proponents vs. Opponents: You Really Mean I Need to Order a MEG in 2017? <input type="checkbox"/> 1165: SIG – Neurophysiologic Intraoperative Monitoring (NIOM)	8:00-9:30am <input type="checkbox"/> 1201: Joint ACNS/DGKN (German) Symposium: The Role of Neurophysiology for Acute Sports Injuries <input type="checkbox"/> 1202: Neurophysiologic Intraoperative Monitoring of Vascular Disorders <input type="checkbox"/> 1203: Advances to Improve Accuracy in EEG Interpretation in Epilepsy Planning (Spanish Symposium) <input type="checkbox"/> 1204: SIG – Invasive EEG: Interictal Epileptiform Activity and Beyond 10:00-11:30am <input type="checkbox"/> 1211: Joint ACNS/Brazilian Society of Clinical Neurophysiology Symposium: The Neurology and Neurophysiology of Zika Virus <input type="checkbox"/> 1212: Practical Applications of Unconventional Neurophysiologic Intraoperative Monitoring (NIOM) Techniques <input type="checkbox"/> 1213: Defining Research Priorities in Refractory Status Epilepticus Management <input type="checkbox"/> 1214: Infantile Spasms: A Look at One Old Epilepsy in the Modern Era

SOCIAL & NETWORKING EVENTS

No additional charge

- ☐ I am interested in attending the Welcome Reception on Friday, February 10 from 7:00-8:30pm.
- ☐ I am interested in attending the Neurophys Bowl on Friday, February 10 from 5:45-7:00pm.
☐ I am interested in participating on a team in the Neurophys Bowl. Please contact me with details!
- ☐ I am interested in attending the Keynote Lecture: Neurology of Musical Masters on Saturday, February 11 from 7:00-8:00pm.
- ☐ I am interested in taking part in the ACNS Mentorship Program.
☐ I would like to be a mentor. ☐ I would like to be a mentee.

SPECIAL NEEDS

☐ I have a religious or food allergy related dietary need. Please explain: _____

☐ I have a need for special assistance (physical). Please explain: _____

SIGNATURE OF AGREEMENT. (Please retain a copy for your records.) I understand I am registering to attend the 2017 ACNS Annual Meeting & Courses, February 8-12, 2017, at the Sheraton Grand Phoenix in Phoenix, Arizona. I understand that the event registration rate listed above will be charged to the credit card I have listed. I understand further that all registration charges must be paid in full upon completion of this form. If registration is not paid for in full at time of event, I may be asked to provide payment upon arrival at the meeting.

CANCELLATION POLICY. Refund requests must be submitted in writing to ACNS prior to January 20, 2017. A \$20 processing fee will be charged for all refunds. We regret refunds will not be granted for requests postmarked or received after January 20, 2017.

WAIVER. Submission of this registration form and payment of associated fee serves as agreement by the delegate to release the American Clinical Neurophysiology Society, the Sheraton Grand Phoenix, their respective agents, servants, employees, representatives, successors, and assigns, from any and against all claims, demands, causes of action, damages, costs, and expenses, including attorneys' fees, for injury to person or damage to property arising out of attendance at the ACNS Annual Meeting & Courses. In addition, the delegate hereby grants permission to use his/her likeness in a photograph or other digital reproduction in any and all of its publications, including website entries, without payment or any other consideration, agreeing that these materials will become the property of ACNS which has the right to edit, alter, copy, exhibit, publish or distribute this photo for purposes of publicizing its programs or for any other lawful purpose. Additionally, the delegate waives any right to royalties or other compensation arising or related to the use of the photograph.

☐ I do not wish to be included on the delegate list provided to supporters. ☐ I do not wish to be included on any published delegate list including programs, mobile apps, etc.

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<input type="checkbox"/> Please add a contribution to the ACNS Strategic Fund.	<input type="checkbox"/> General Strategic Fund \$ _____	<input type="checkbox"/> Educational Fund \$ _____
	<input type="checkbox"/> Research Fund \$ _____	<input type="checkbox"/> International Fund \$ _____
Donation Total (C): _____		

Courses Total (A): _____ + **Annual Meeting Total (B):** _____ + **Donation Total (C):** _____ = **GRAND TOTAL:** _____

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ANNUAL MEETING & COURSES

PHOENIX

2017

FEBRUARY 8-12, 2017
SHERATON GRAND PHOENIX

IMPORTANT DATES

Advance Registration Open	September 12, 2016
Poster Abstract Submission Open	October 1, 2016
Poster Abstract Submission Deadline	November 15, 2016
Poster Abstract Decision Notification	December 15, 2016
Housing Deadline	January 15, 2017
Advance Registration Deadline	January 15, 2017
Registration Cancellation Deadline	January 20, 2017

Courses Handout Website Open	January 31, 2017
CME Certificate Program Opens (pre-registered delegates)	February 8, 2017
CME Certificate Program Opens (delegates registering onsite)	March 8, 2017
CME Certificate Claim Deadline	April 3, 2017
Courses Handout Website Closes	April 28, 2017