

AMERICAN CLINICAL NEUROPHYSIOLOGY SOCIETY

W E L C O M E

2019 Annual Meeting & Courses

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



✦ *Preliminary Program*

www.acns.org

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MESSAGE FROM THE 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 2019 Annual Meeting & Courses, taking place February 6-10, 2019 at the Caesar's Palace in Las Vegas, Nevada.

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 2017, 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 success of previous year's Joint International Symposia, we are pleased to announce the inclusion of many 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 Canadian Society of Clinical Neurophysiology, the Colombian Society of Clinical Neurophysiology and the German Society of Clinical Neurophysiology. 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 8 in the Exhibit Hall.

The 2019 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 Las Vegas!

Sincerely,



Frank W. Drislane

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



Courtney J. Wusthoff

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



Saurabh R. Sinha

Saurabh R. Sinha, MD, PhD, FACNS
Program Committee Co-Chairs



Tammy Tsuchida

Tammy Tsuchida, MD, PhD, FACNS
Program Committee Co-Chairs

ACNS INFORMATION

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.

Officers and Council

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May Clinic

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Duke University Medical Center

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Marc R. Nuwer, MD, PhD, FACNS
UCLA

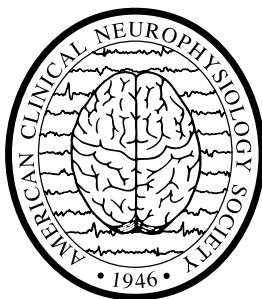
Journal Editor

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

ACNS Executive Office

555 E Wells St, Suite 1100
Milwaukee, WI 53202
Phone: (414) 918-9803
Fax: (414) 276-3349
info@acns.org
www.acns.org

Megan M. Hille, CAE, CMP, Executive Director, mhille@acns.org
Erin Trimmer, Senior Meetings Manager, etrimmer@acns.org
Deedee Mader, Membership Manager, dmader@acns.org
Elizabeth Mueller, Meetings Coordinator, emueller@acns.org



ACNS INFORMATION

Course Committee

Co-Chairs

Frank W. Drislane, MD, FACNS
Beth Israel Deaconess Medical Center
Courtney J. Wusthoff, MD, FACNS
Stanford University

Members:

Cecil D. Hahn, MD, MPH, FACNS
The Hospital for Sick Children
Giridhar Kalamangalam, MD, DPhil, FACNS
University of Florida

Leslie H. Lee, MD, FACNS
Stanford University Medical Center
Tobias Loddenkemper, MD, FACNS
Children's Hospital Boston
Jaime R. Lopez, MD, FACNS
Stanford University
Stephan U. Schuele, MD, MPH, FACNS
Northwestern University
M. Brandon Westover, MD, PhD, FACNS
Massachusetts General Hospital

Ex-Officio

Jeffrey Britton, MD, FACNS
Mayo Clinic
Gloria M. Galloway, MD, MBA, FACNS
Ohio State University Medical Center
Saurabh R. Sinha, MD, PhD, FACNS
Duke University Medical Center
Tammy Tsuchida, MD, PhD, FACNS
Children's National Medical Center

Continuing Medical Education (CME) Committee

Co-Chairs

Meriem Bensalem-Owen, MD, FACNS
University of Kentucky
Gloria M. Galloway, MD, MBA, FACNS
Ohio State University Medical Center

Members

Amy Crepeau, MD
Mayo Clinic
Charles M. Epstein, MD, FACNS
Emory University School of Medicine
Evan J. Fertig, MD
Providence Brain and Spine Institute
Elizabeth Gerard, MD, FACNS
Northwestern University
Hiba A. Haider, MD
Emory University
Abeer J. Hani, MD
Lebanese American University
Susan T. Herman, MD, FACNS
Beth Israel Deaconess Medical Center

Monica Islam, MD
Nationwide Children's Hospital
Pongkiat Kankirawatana, MD, FACNS
Children's of Alabama- UAB
Fawad A. Khan, MD
Ochsner Health System
Ammar Kheder, MD
Penn Epilepsy Center
Jong Woo Lee, MD, PhD, FACNS
Brigham & Women's Hospital
Joel Oster, MD
Tufts University
Dipakkumar P. Pandya, MD
Hunterdon Neurology
Jun T. Park, MD, FAES
Case Western Reserve University
Karl Erwin Sanzenbacher, MD, MS, FACNS
Eastern Maine Medical Center
Mirela V. Simon, MD, MSc, FACNS
Massachusetts General Hospital

Saurabh R. Sinha, MD, PhD, FACNS
Duke University Medical Center
Fahd Sultan, MD
University of Oklahoma Health Sciences Center
Christa Swisher, MD
Duke University Medical Center
Shanti Thirumalai, MD, FACNS
University of Michigan

Ex-Officio

Nicholas S. Abend, MD, MSCE, FACNS
Children's Hospital of Philadelphia
Frank W. Drislane, MD, FACNS
Beth Israel Deaconess Medical Center
Saurabh R. Sinha, MD, PhD, FACNS
Duke University Medical Center
Tammy Tsuchida, MD, PhD, FACNS
Children's National Medical Center
Courtney J. Wusthoff, MD, FACNS
Stanford University

ACNS INFORMATION

Program Committee

Co-Chairs

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

Tammy Tsuchida, MD, PhD, FACNS
Children's National Medical Center

Council Liaison

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

Members

Nicholas S. Abend, MD, MSCE, FACNS
Children's Hospital of Philadelphia

William J. Bosl, MD, PhD
University of San Francisco

Richard C. Burgess, MD, PhD, FACNS
Cleveland Clinic Epilepsy Center

Bernard Allan Cohen, PhD, FACNS, FASNM
Neurological Monitoring Associates, LLC

Elliot Dimberg, MD, FACNS
Mayo Clinic

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

Ronald Emerson, MD, FACNS
Hospital for Special Surgery / Weill Cornell Med Ctr

William B. Gallentine, DO, FACNS
Stanford University

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

Mark Hallett, MD, FACNS
National Institutes of Health

Abeer J. Hani, MD
Lebanese American University

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

Akio Ikeda, MD, PhD, FACNS
Kyoto University Graduate School of Medicine

Adam Juersivich, MD
SpecialtyCare

Giridhar P. Kalamangalam, MD, DPhil, FACNS
University of Florida

Peter W. Kaplan, MD, FRCP, FACNS
Johns Hopkins Bayview Medical Center

Ioannis Karakis, MD, PhD, MSc
Emory University

Gowri Lakshminarayan, MD
Specialty Care Inc

Suzette M. LaRoche, MD, FACNS
Mission Health

Ruple S. Laughlin, MD
Mayo Clinic

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

Leslie Lee, MD, FACNS
Stanford University Medical Center

Jaime R. Lopez, MD, FACNS
Stanford University

Faye McNall, MEd, REEGT
ASET - The Neurodiagnostic Society

Daniela N. Minecan, MD, FACNS, FAES
University of Michigan Health System

Heidi M. Munger Clary, MD, MPH
Wake Forest University

Marcus C. Ng, MD, FRCPC, CSCN(EEG)
University of Manitoba

Noor Pirzada, MD

Eva K. Ritzl, MD, FACNS
Johns Hopkins University

Alexander Rotenberg, MD, PhD
Children's Hospital Boston

Devon I. Rubin, MD, FACNS
Mayo Clinic

Arnold J. Sansevere Jr., MD
Boston Children's Hospital

Stephan U. Schuele, MD, MPH, FACNS
Northwestern University

Raj D. Sheth, MD, FAAN, FACNS
Mayo Clinic / Nemours Clinic-Florida

William O. Tatum, DO, FACNS
Mayo Clinic Florida

Martin Veilleux, MD, FACNS
Montreal Neurological Hospital

M. Brandon Westover, MD, PhD, FACNS
Massachusetts General Hospital

Ex-Officios

Meriem Bensalem-Owen, MD, FACNS
University of Kentucky

Frank W. Drislane, MD, FACNS
Beth Israel Deaconess Medical Center

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

Courtney J. Wusthoff, MD, FACNS
Stanford University

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 format.

Important Dates	
Advance Registration Open	October 1, 2018
Poster Abstract Submission Open	October 1, 2018
Poster Abstract Submission Deadline	November 15, 2018
Poster Abstract Decision Notification	December 15, 2018
Housing Deadline	January 15, 2019
Advance Registration Deadline	January 15, 2019
Registration Cancellation Deadline	January 20, 2019
Courses Handout Website Open	January 31, 2019
CME Certificate Program Opens (pre-registered delegates)	February 8, 2019
CME Certificate Program Opens (delegates registering onsite)	March 8, 2019
CME Certificate Claim Deadline	April 3, 2019
Courses Handout Website Closes	April 28, 2019

Las Vegas Visitor Information

Nearest Airport: McCarran International Airport (LAS)

Average February Temperatures: High 64° F, Low 42° F

Headquarters Hotel

Caesar's Palace
3570 S Las Vegas Blvd
Las Vegas, Nevada 89109
(866) 227-5938

Housing Reservations

A block of rooms has been reserved for ACNS Annual Meeting & Courses delegates at Caesar's Palace. Reservations will be accepted on a space-available basis, at the standard hotel rate after the housing deadline of January 15, 2019. Please reserve your rooms before the deadline to take advantage of the group rate.

ACNS Group Rate: \$221/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, 2019

To make reservations online, visit the ACNS website: <http://www.acns.org/meetings/annual-meeting-and-courses/2019-annual-meeting-and-courses/housing--travel>.

To make reservations by phone, call (866) 227-5938. 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 ##.

To register online, go to the ACNS website: <http://www.acns.org/meetings/annual-meeting-and-courses/2019-annual-meeting-and-courses/registration>. or fill out the paper registration form (found on Pages 19-21) at the back of the program.

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

Several emerging areas of clinical neurophysiology have significant practice gaps in which the opportunities for training and mentoring fall short of the need for experienced and trained neurologists. Intraoperative monitoring, intensive care unit EEG monitoring, Video and Quantitative EEG and invasive evaluation for epilepsy surgery with Stereo EEG are growing areas of clinical neurophysiology with few practicing neurologists having adequate training in these techniques. Adult and pediatric physicians as well as neurodiagnostic technologists with competence in these areas are in great demand. Without additional specialized training, neurologists will not be competent to conduct these types of monitoring.

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, advanced EMG procedures) are performed at low volume at many centers and a forum for review and hands-on interpretation are essential to improve and 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.

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.

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 Educations (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.

Epilepsy Surgery/Invasive EEG Course Part I

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

Central EEG Technical

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) Part I

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

Video-EEG Part I

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

Central EEG Technical

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

EMG/Peripheral Nervous System

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

EMG Demo

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

Epilepsy Surgery/Invasive EEG Course Part II

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

Neurophysiologic Intraoperative Monitoring (NIOM) Part II

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

Intensive Care Unit EEG Monitoring (ICU EEG) Part II

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

CONTINUING MEDICAL EDUCATION (CME) INFORMATION

Autonomic Neurophysiology

1.5 AMA PRA Category I Credit(s)TM

5th Annual CNP Program Director's Symposium

2 AMA PRA Category I Credit(s)TM

Basic EEG

AMA PRA Category I Credit(s)TM

Video-EEG Part II

1.5 AMA PRA Category I Credit(s)TM

Evoked Potentials

1.5 AMA PRA Category I Credit(s)TM

Neonatal EEG

1.5 AMA PRA Category I Credit(s)TM

Neuromodulation/Stimulation

3 AMA PRA Category I Credit(s)TM

*These credit counts are estimates and subject to change as agendas are confirmed.

CALL FOR POSTER ABSTRACTS

Submission Dates

Poster abstract submission will open on October 1, 2018. All abstracts must be submitted online by Thursday, November 15, 2018 at 11:59pm ET. No exceptions will be made.

Online Abstract Submission

Poster abstracts must be submitted through the ACNS Session Management website (<https://www.conferenceharvester.com/harvester2/login.asp?EventKey=MTCBASXX>). 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, 2018.

Abstract Categories

Abstracts submitted to the 2019 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 2019 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 7 and displayed Friday, February 8 – Saturday, February 9, 2019.

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.

CALL FOR POSTER ABSTRACTS

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 2019 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, 2018. 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.

ANNUAL COURSES

Wednesday, February 6, 2019

9:00am-5:00pm

Neurophysiologic Intraoperative Monitoring (NIOM) Part I

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

9:00am	Welcome and Introductions
9:05am	SEP Monitoring <i>Parthasarathy Thirumala, MD, FACNS</i>
9:45am	MEP Monitoring <i>Ronald Emerson, MD, FACNS</i>
10:25am	Break
10:40am	BAEP Monitoring <i>Alan D. Legatt, MD, PhD, FACNS</i>
11:20am	EEG Monitoring <i>Olga Seljoutski, DO, FACNS</i>
12:00pm	Discussion
12:15pm	Lunch
1:15pm	EMG and Nerve Recordings <i>Francisco Soto, MD</i>
1:55pm	Anesthesia <i>Iryna Muzyka, MD, FACNS</i>
2:35pm	Error Avoidance in the OR: Technical and Non-technical Issues <i>Stanley Skinner, MD, FACNS</i>
3:15pm	Break
3:30pm	Medicolegal Issues <i>Jaime R. Lopez, MD, FACNS</i>
4:10pm	Billing Issues <i>Marc Nuwer, MD, PhD, FACNS</i>
4:50pm	Discussion

9:00am-5:00pm

Epilepsy Surgery/Invasive EEG Course Part I

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

9:00	Introduction and Overview <i>Giridhar Kalamangalam, MD, DPhil, FACNS</i>
9:05am	Noninvasive and Invasive Evaluations <i>Chris Skidmore, MD</i>
9:40am	Epileptogenic Zone Defined by Invasive EEG <i>Patrick Chauve, MDI</i>
10:15am	Break
10:30am	Intracranial EEG: Physiologic and Abnormal Patterns <i>Birgit Frauscher, MD, PhD</i>
11:00am	Temporal Lobe <i>Giridhar Kalamangalam, MD, DPhil, FACNS</i>
11:30am	Extratemporal Lobe <i>Stephan U. Schuele, MD, MPH, FACNS</i>

12:00pm	Lunch
1:00pm	Role of Source Imaging <i>Richard C. Burgess, MD, PhD, FACNS</i>
1:30pm	HFO and Epilepsy Surgery <i>TBD</i>
2:00pm	PMG and PVNH <i>Francois Dubeau, MD</i>
2:30pm	Insular Epilepsy <i>DK Nguyen, MD, PhD, FRSC</i>
3:00pm	Break
3:15pm	Epilepsy Surgery. Implantation and Resection <i>Steven N. Roper, MD</i>
3:45pm	Laserablation: Outcome <i>TBD</i>
4:15pm	Indication for RNS and DBS <i>Lawrence J. Hirsch, MD, FACNS</i>

9:00am-5:00pm

Intensive Care Unit EEG Monitoring (ICU EEG) Part I

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

9:00am	Overview of ICU EEG Monitoring in Neonates, Children and Adults <i>Nicholas S. Abend, MD, MSCE, FACNS</i>
9:40am	Guidelines and Logistics of ICU EEG Monitoring <i>Susan T. Herman, MD, FACNS</i>
10:30am	cEEG Interpretation: Background, Reactivity, Artifacts, and ACNS Terminology <i>Suzette M. LaRoche, MD, FACNS</i>
11:30am	Treatment of Nonconvulsive Seizures and Status Epilepticus <i>Sarah E. Schmitt, MD, FACNS</i>
12:00pm	Lunch
1:00pm	CEEG of Anoxic Brain Injury and Targeted Temperature Management <i>Michel van Putten, MD, PhD</i>
1:30pm	EEG of NORSE, FIRES, and Autoimmune Disorders <i>Nicolas Gaspard, MD, PhD</i>
2:00pm	ICU EEG Reading Session: Adult Cases <i>Elizabeth Gerard, MD, FACNS and Andres Rodriguez-Ruiz, MD</i>
2:30pm	cEEG Interpretation: Neonates <i>Tammy Tsuchida, MD, PhD, FACNS</i>
3:10pm	ICU EEG Reading Session: Neonatal and Pediatric Cases <i>Jessica L. Carpenter, MD</i>
3:40pm	EEG in Toxic Metabolic Encephalopathy <i>Peter W. Kaplan, MD, FRCP, FACNS</i>
4:10pm	Finances, Billing and Coding <i>Mark R. Nuwer, MD, PhD, FACNS</i>
4:50pm	Panel Q&A

ANNUAL COURSES

Thursday, February 7, 2019

7:00-8:30am

Epilepsy Surgery/Invasive EEG Course Part II: SEEG

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

- 7:00am Intracranial EEG: Physics and Physiology:
Jean Gotman, PhD, FACNS
- 7:25am Planning Placements
Giridhar P. Kalamangalam, MD, DPhil, FACNS
- 7:45am Data Interpretation and Mapping
Stephan U. Schuele, MD, MPH, FACNS
- 8:05am Surgical Aspects and Resection Strategy
Nitin Tandon, MD
- 8:25am Panel Discussion

7:00-8:30am

Evoked Potentials

Director: *Elayna Rubens, MD, FACNS*
Agenda coming soon!

7:00-8:30am

Central EEG Technical

Director: *Susan T. Herman, MD, FACNS*
Agenda coming soon!

9:00am-12:00pm

Intensive Care Unit EEG Monitoring (ICU EEG) Part II

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

- 9:00am Quantitative EEG: Theory and Tools
Hiba A. Haider, MD
- 9:30am Quantitative EEG for Seizure Detection
Cecil D. Hahn, MD, MPH, FACNS
- 10:00am Quantitative EEG for Ischemia Detection
M. Brandon Westover, MD, PhD, FACNS
- 10:50am Multimodal monitoring in Acute Brain Injury
Jan Claassen, MD, PhD, FNCS
- 11:30am QEEG Cases
Emily J. Gilmore, MD and Sahar F. Zafar, MBBS

9:00am-5:00pm

Neurophysiologic Intraoperative Monitoring (NIOM) Part II

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

- 9:00am Welcome and Introductions
- 9:05am VEP Monitoring
Aatif M. Husain, MD, FACNS
- 9:45am Monitoring for Brachial Plexus and Nerve Repair Surgery
Jorge E. Gutierrez, MD, MSc
- 10:25am Break
- 10:40am Monitoring for Spinal Cord Tumor Surgery
Eva K. Ritzl, MD, FACNS

- 11:20am Monitoring for Lower Spinal Column Surgery (Pedicule Screws, MEPs, Dermatome MEPs and Reflex Monitoring)
Paulo Andre Kimaid, MD, PhD
- 12:00pm Discussion
- 12:15pm Lunch
- 1:15pm Corticobulbar MEP Monitoring with Aases (and Brainstem Reflexes?)
Kyung-Seok Park, MD
- 1:55pm Cranial Nerve Monitoring
Jaime R. Lopez, MD, FACNS
- 2:35pm Monitoring for Vascular Surgery
Leslie Lee, MD, FACNS
- 3:15pm Break
- 3:30pm Sensorimotor Mapping and Monitoring for Supratentorial Tumors
Mirela V. Simon, MD, MSc, FACNS
- 4:10pm Language Mapping and Electrographicography
Ioannis Karakis, MD, PhD, MSc
- 4:50pm Question and Answer

9:00am-3:00pm

EMG/Peripheral Nervous System

Course Directors: *Devon Rubin, MD, FACNS* and *Ruple Laughlin, MD*

- 9:00am Nerve Conduction Studies – Basics and Pitfalls
Ruple S Laughlin, MD
- 9:45am EMG Waveform Examples – Spontaneous and Basic Motor Unit Potentials
Devon I. Rubin, MD
- 10:45am EDX Approach to CTS and Ulnar Neuropathies
Cory Kogelschatz, MD
- 11:30am EDX Approach to Radiculopathies
Paul Barkhaus, MD
- 1:15pm EDX Approach to Peripheral Neuropathies
Zachary London, MD
- 2:00pm EDX Approach to Myopathies
Priya Dhawan, MD

3:00-5:00pm

EMG Demo

Course Directors: *Devon Rubin, MD, FACNS* and *Ruple Laughlin, MD*

- 3:00pm NCS Demonstration: Common, Uncommon, and Pitfalls
Devon Rubin, MD, FACNS and *Ruple Laughlin, MD*

ANNUAL COURSES

11:30am-2:00pm

CNP Director's Symposium

Course Director: Jeffrey Britton, MD, FACNS

11:30am	Lunch
12:00pm	Introduction <i>Jeffrey Britton, MD, FACNS</i>
12:05pm	Closing Gaps Identified in ACNS Inservice Exam – Neurophysiology and Instrumentation <i>Brian Lundstrom, MD, PhD</i>
12:30pm	IOM and Evoked Potentials <i>Matt Hoffmann, DO, PhD</i>
1:00pm	ACGME Revised Core Requirements <i>Padmaja Kandula, MD</i>
1:30pm	ACGME Self-Study <i>Lily Wong-Kiesel, MD</i>

1:30-3:00pm

Autonomic Neurophysiology

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

1:30pm	Introduction, Anatomy & Physiology of the Autonomic Nervous System <i>Claus Reinsberger, MD PhD FACNS</i>
1:45pm	Autonomic Testing <i>Jeffrey Liou, DO</i>
2:10pm	Neurological Disorders with Central Autonomic Failure <i>Alexandra Hovaguimian, MD</i>
2:35pm	Peripheral Autonomic Failure <i>Brent Goodman, MD</i>

3:00-5:00pm

Video EEG Part I

Course Co-Directors: William Tatum, DO, PhD, FACNS and Phillip Pearl, MD, FACNS

3:00pm	Predicting the Epileptogenic Zone using Scalp-based VEM <i>William O. Tatum, DO, FACNS</i>
3:35pm	Predicting the Epileptogenic Zone with Intracranial VEM <i>Greg Worrell, MD, FACNS</i>
4:15pm	Localizing the Epileptogenic Zone in Pediatric Patients with VEM <i>Phillip Pearl, MD, FACNS</i>
4:50pm	Q&A

Friday, February 8, 2019

7:00-8:30am

Neonatal EEG Workshop

Course Director: Shavonne Massey, MD, MSCE

7:00am	Evolution of the Classification of Neonatal Seizures <i>Eli Mizrahi, MD</i>
7:30am	Neonatal Seizure Quantification: Novel Methods to Address a Common Dilemma <i>Eli Mizrahi, MD</i>
8:00am	Standardizing Neonatal EEG Background Interpretation: Addressing Issues of Inter-rater Agreement <i>Shavonne Massey, MD, MSCE</i>

8:30-10:00am

Video EEG Cases Part II

Course Co-Directors: William Tatum, DO, PhD, FACNS and Phillip Pearl, MD, FACNS

8:30am	Video-EEG Cases: Pearl and Pitfalls in Adults <i>William O. Tatum, DO, FACNS</i>
9:00am	The Unclassified Patients <i>Stephan Schuele, MD, FACNS</i>
9:30am	Mystery Pediatric Cases <i>Phillip Pearl, MD, FACNS</i>

7:00-10:00am

Neuromodulation/Stimulation

Course Director: Greg Worrell, MD, FACNS

Agenda coming soon!

7:00-10:00am

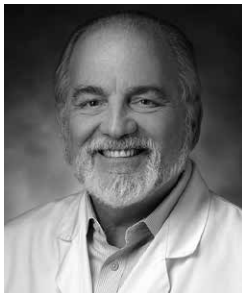
Basic EEG

Course Co-Directors: Ionnis Karakis, MD, PhD, MSc and Jay S. Pathmanathan, MD, PhD

7:00 am	Normal Adult EEG <i>Jay S. Pathmanathan, MD, PhD</i>
7:30am	Normal Neonatal and Pediatric EEG <i>Nicholas Abend, MD, MSCE, FACNS</i>
8:00am	Normal EEG Variants <i>Ioannis Karakis, MD, PhD, MSc</i>
8:30am	Artifacts <i>Jeffrey Britton, MD, FACNS</i>
9:00am	Non Epileptiform Abnormalities <i>M. Brandon Westover, MD, PhD, FACNS</i>
9:30am	Epileptiform Abnormalities <i>Andreas Alexopoulos, MD, MPH</i>

AWARD RECIPIENTS & LECTURES

2019 Pierre Gloor Award Presentation & Lecture



Peter W. Kaplan, MD, FRCP, FACNS

The Gloor Award is presented annually for outstanding current contributions to clinical neurophysiology research. Dr. Peter Kaplan will be recognized and will deliver the 2019 Gloor Address on Friday, February 8, 2019.

Dr. Kaplan grew up in Geneva, Switzerland. He went to the University of London, England for Medicine Endocrinology Research. He then served his *Resident Etranger* at the College of Medicine, Paris, France before beginning his residency at Duke University and serving his Fellowship Career at Johns Hopkins University School of Medicine, Baltimore. Dr. Kaplan is Professor of Neurology, Johns Hopkins University School of Medicine.

2019 Herbert H. Jasper Award Presentation & Lecture



Jean Gotman, 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. Gotman will be recognized during a general session on Saturday, February 9, 2019.

Dr. Jean Gotman received an engineering degree from the University of Paris and a PhD in Neuroscience from McGill University in Montreal. He pioneered the automatic detection of spikes and seizures during long-term EEG monitoring and made his methods widely available through Stellate, a company he created in 1986, which developed and sold all over the world equipment and software for EEG, epilepsy monitoring and polysomnography. He published over 300 peer-reviewed papers and 40 chapters. His research interests include analysis of the EEG, mechanisms of epileptogenesis, seizure generation and spread in humans, High Frequency Oscillations and functional imaging in the diagnosis and study of epilepsy. He received the Research Recognition Award from the American Epilepsy Society, the Pierre Gloor Award of the American Clinical Neurophysiology Society, the Penfield Award of the Canadian League against Epilepsy, was named Ambassador for Epilepsy by the International League against Epilepsy, and gave the Lennox-Lombroso lecture at the American Epilepsy Society. Dr. Gotman is a Professor in the Department of Neurology and Neurosurgery at McGill University.

2019 Robert S. Schwab Award



Michael Aminoff, MD

The Schwab Award is presented annually to an individual who has made significant contributions in the area of clinical neurophysiology. Dr. Aminoff will be recognized and will deliver the 2019 Schwab Lecture on Saturday, February 9, 2019.

Dr. Michael Aminoff is a clinical neurologist and neurophysiologist, clinical investigator, university professor, author, and editor with a special interest in medical history. He was born and educated in England, graduating from University College London in 1962 and as a physician from University College Hospital Medical School in 1965. He subsequently trained in neurology and neurophysiology at The National Hospital (Queen Square) in London, and in 1974 moved to UCSF where he has been Professor of Neurology since 1982. He was Director of the Clinical Neurophysiology Laboratories at UCSF until 2004, when he became Executive Vice Chair of the department of neurology. He also directs the UCSF Parkinson's Disease Clinic and Research Center, a National Parkinson Foundation Center of Excellence.

ANNUAL MEETING PROGRAM

Friday, February 8, 2019

7:00-10:00am

Women's Leadership Symposium

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

*Women's Leadership Symposium is included in the overall meeting registration rate and does not have a separate registration fee

- 7:00am Defining the Problem of Gender Disparity in Medicine: What Does the Data Reveal
Gloria M. Galloway, MD, MBA, FACNS
- 7:30am Recruitment and Retention of Female Faculty - What Are The Challenges and What Opportunities are Available?
Linda Boxer
- 8:00am Why Does Gender Research Matter?
Sarah E. Schmitt, MD, FACNS
- 8:30am Helping 'Women Find a Voice-Recommendations For Moving Forward
TBD
- 9:00am Panel discussion

10:00-10:30am - Coffee Break

10:30am-12:15pm - Opening General Session

- 10:30am Welcome
- 10:40am President's Lecture
Tobias Loddenkemper, MD, FACNS
- 11:30am Gloor Award Presentation and Lecture
Peter W. Kaplan, MD, FRCP, FACNS

1:30-3:30pm - Concurrent Sessions

The Business Side of Clinical Neurophysiology

- 1:30pm I've Just Been Asked to Serve as Medical Director- Now What Do I Do?
Suzette M. LaRoche, MD, FACNS
- 1:40pm Building a comprehensive EEG Monitoring Program
Dave Burdette, MD, FACNS
- 2:20pm Quality Improvement, Accreditation and Board Certification:
Matt W. Luedke, MD
- 2:45pm Work Life Balance: Preventing Provider and Technologist Burnout
Cormac O'Donovan, MD, FACNS
- 3:15pm Panel Discussion

Current and Future Clinical Practice of High Density EEG and Electrical Source Imaging in Epilepsy

- 1:30pm Opportunities for Presurgical Localization Using HD-EEG Source Localization
Robert Knowlton, MD
- 2:00 pm Methods for HD EEG ESI and Lesion-Constrained ESI
Jurriaan Peters, MD, PhD
- 2:30pm Identification and Significance of Spike Ripple Events in Scalp HD EEG
Catherine Chu, MD
- 3:00pm Beyond the Spike: HD EEG to Map Epileptic Networks and Eloquent Cortex
Leonardo Bonilha, MD, PhD

Multimodality Monitoring in the EMU

- 1:30pm – Introduction
- 1:35pm Peri-ictal Respiratory Dysfunction – Insights From The EMU
Nuria Lacuey, MD
- 1:55pm Respiratory Function Monitoring – Insights From the Lab
George Richerson, MD
- 2:15pm Electrocardiographic Monitoring
Maromi Nei, MD
- 2:35pm Non-Invasive Blood Pressure Monitoring
Sam Lhatoo, MD
- 2:55pm Mapping of Cardiorespiratory Function with Brain Stimulation
William Nobis, MD

Critical Care ECoG: How to Integrate It into Your Practice

- 1:30pm Critical Care ECoG: History, Rationale and Evidence
Emily Gilmore, MD
- 2:00pm How to Start an ICU ECoG Monitoring Program
Ramini Balu, MD, PhD
- 2:30pm ECoG Untangled: Integrating ECoG with Other Multimodality Monitoring
Brandon Foreman, MD, FACNS
- 3:00pm ICU Clinical Case Scenarios: How ECoG Adds to Patient Care
Eric Rosenthal, MD

ANNUAL MEETING PROGRAM

Beyond QEEG: Artificial Intelligence in Clinical Neurophysiology

1:30pm – Introduction

M. Brandon Westover, MD, PhD, FACNS

1:35pm Standards and Validation of AI Algorithms

Jon Halford, MD, FACNS

1:50pm Annotating Large Datasets for AI Applications

Jing Jin, PhD

2:05pm AI for Sedation Monitoring: Monitoring ICU Sedation and Delirium Using Deep Neural Networks

Haoqi Sun, PhD

2:20pm AI for Predicting Outcome of Coma Following Cardiac Arrest

Michel van Putten, MD, PhD

2:35pm Sleep Changes Systematically Over the Course of a Lifetime

M. Brandon Westover, MD, PhD, FACNS

2:50pm AI for Analysis of Sleep

Jimeng Sun, MD

3:05pm "Routine EEGs" are a Central Part of the Medical Evaluation for Patients with Neurological Disorders

Siddharth Biswal, MD

3:15pm Panel Discussion

Coffee Break - Visit Exhibitors and Poster Viewing

4:00-5:30pm - Concurrent Sessions

Brachial Plexopathies - Improving Your Diagnostic Skills

4:00pm What a Close Relationship with the Surgeon Teaches You

Carlos Otto Heise, MD, PhD

4:30pm ENMG Techniques for Evaluation of Brachial Plexopathy

Devon I. Rubin, MD, FACNS

5:00pm Ultrasound Imaging of Brachial Plexus

Ana Lucila Moreira, MD

Brain-Computer Interface: The Dawn of a New Era for Patients with Neurological and Motor Deficits

4:00pm Introduction- BCI: A Revolution in Clinical Neurophysiology

Meriem Bensalem-Owen, MD, FACNS

4:30pm DARPA and Innovations in Neural Interface Technology

Justin Sanchez, PhD

5:00pm The Quest for Memory Restoration through BCI

TBD

Clinical Neurophysiology Resident and Fellow Special Interest Group

4:00pm SIG Introduction

Andrea Hakimi, DO, FACNS, FAES

4:05pm Case Presentations

5:30-5:45pm - Walking Break

5:45-7:00pm - Neurophys Bowl

7:00-8:30pm - Welcome Reception

Join us at the official Welcome Reception of the 2019 Annual Meeting. You will have the chance to connect with colleagues, meet other attendees, view posters, and visit exhibit booths on the opening day of Congress sessions.

Saturday, February 9, 2019

8:00-9:30am - Concurrent Sessions

Decision Making with Neurostimulation

8:00 am Future of Neurostimulation

Dawn Eliashiv, MD, FACNS

8:30am Responsive Neurostimulation What We Learn From Chronic Recordings

Lawrence J. Hirsch, MD, FACNS

8:50am VNS Novel Strategies

Steve Karceski, MD

9:10am DBS Approval at Last

Robert E. Gross, MD, PhD

Of Dreams & Spells - The Neurophysiological Tools of REM Sleep & Epilepsy

8:00am Physiology & Polysomnography of REM Sleep

Milena Pavlova, MD

8:30am EEG & Quantitative EEG of REM Sleep in Epilepsy

Marcus C. Ng, MD, FRCPC, CSCN(EEG)

9:00am Neurophysiology of REM Sleep & SUDEP in Epilepsy

Gordon Buchanan, MD, PhD

Mapping Human Language Networks with Intracranial EEG Spectra

8:00am Introduction

Ravindra Arya, MD, DM

8:05am Spatiotemporal Mapping of Language Networks at the Bedside with Intracranial EEG in Adults

Nathan E. Crone, MD

8:25am 3D and 4D Mapping of Speech and Language in Children with Epilepsy

Eishi Asano, MD, PhD

8:45am Development of Information Sharing in Human Language Neocortex

Ravindra Arya, MD

9:05am Multimodal Prediction of Post-Operative Language Outcomes

Abbas Babajani-Feremi, PhD

ANNUAL MEETING PROGRAM

Intraoperative Neurophysiologic Monitoring in special situations. American-Mexican Clinical Neurophysiology Symposium

- 8:00am IOM in Neuromuscular Diseases
Jaime López, MD
- 8:30am IOM in Neonates
Erika Rivera, MD
- 9:00am IOM in Elderly
Daniel San-Juan, MD

Mastering Semi-quantitative Motor Unit Potential Analysis Skills in 90 Minutes!

- 8:00am Overview of Skills of Semi-Quantitation
Devon I. Rubin, MD, FACNS
- 8:30am Assessment of MUP Recruitment
Devon I. Rubin, MD, FACNS
- 9:00am Recognizing MUP Morphologic Changes
Devon I. Rubin, MD, FACNS

9:30-10:00am - Coffee Break - Visit Exhibits and Poster Viewing

10:00-11:00am - General Session

- 10:00am Young Investigator Travel Award Presentation
- 10:15am Jasper Award Presentation and Lecture: Developing Tools for Neurophysiology
Jean Gotman, PhD, FACNS

11:00-11:15am - Walking Break

11:15am-12:45pm - Concurrent Sessions

Can Clinical Neurophysiology Improve the Recovery from Sports Induced Injuries ?

- 11:15am Neurophysiological Assessment Tools to Enhance Recovery After Concussion – Between Theory and Evidence
Nicholas Jerome Milano, MD
- 11:45am New Ways to Approach Recovery After Concussion – Focus On the Vestibular and Autonomic Nervous System
Claus Reinsberger, MD, PhD, FACNS
- 12:15pm The Role of Sleep in Recovery From Neurological Injuries and Its Relevance to Sports Medicine
TBD

The Diagnostic Challenge of Small Fibre Neuropathy

- 11:15am Clinical Features of Acquired Small Fiber Neuropathy
Rayaz Malik, MB, ChB, PhD
- 11:45am Neurophysiological Evaluation of Small Fiber Neuropathy
Jordi Serra, PhD, MS
- 12:15pm Approach to the Evaluation of Small Fiber Peripheral Neuropathy
Brent Goodman, MD

Wide-band EEG for Epilepsy: Which is Already Established Tool or Still Research Topic?

- 11:15am HFO is the Established Tool or Still Research Topic?
Jean Gotman, PhD
- 11:35am DC Shifts are the Established Tool or Still Research Topic?
Akio IKEDA, MD, PhD, FACNS
- 11:55am Current Situation for MEG Application
Stefan Rampp, MD
- 12:15pm Scalp-Recorded, Wide-Band EEG
Pradeep Modur, MD, MS

The Motor Evoked Potential: Fundamentals and Clinical Applications. A High-Level Scientific Symposium.

- 11:15am Setting the Stage. The Potential of the MEP and Its Challenges.
Jonathan A. Norton, PhD
- 11:30am Activation of the Motor Pathway; How, What and Why?
John Rothwell, PhD
- 12:00pm Clinical Application of MEPs & Where Should TMS fit in Clinical Neurophysiology?
Mark Hallett, MD, FACNS
- 12:30pm Alarmed by Alarm Criteria? Developing a Scientifically Based Approach to MEPs in the Clinical Setting.
Jonathan A. Norton, PhD

12:45-2:00pm - Lunch - Visit Exhibits and Poster Viewing

1:30-2:00pm - Annual Business Meeting

2:00-3:30pm - Concurrent Sessions

Joint ACNS/IFCN Latin American Chapter: Beyond Traditional Monitoring During Spine Surgery

- 2:00pm MEPs for Lumbar Spine Surgery: Advantages and Pitfalls
Armando Tello, MD, PhD
- 2:30pm MEPs for Tumors of the Lower Spine and Conus
Jorge Gutiérrez, MD, MS
- 3:00pm MEPs for Nerve Root Monitoring
Parastou Shilian, DO, FACNS

Are MEG Practitioners Fulfilling Your Expectations?

- 2:00pm Thus Spoke the NAEC Centers' Directors...
Anto Bagić, MD, PhD, FACNS
- 2:30pm "Evidence-Supported MEG Indications in Epilepsy"
Andrew Zillgitt, DO
- 3:00pm "This is What You Should Expect from a MEG Report"
Richard C. Burgess, MD, PhD, FACNS

ANNUAL MEETING PROGRAM

Electrophysiologic Assessment of Weakness in the ICU

- 2:00pm Electrophysiological Testing Approach for Respiratory Failure in the ICU
Ruple S. Laughlin, MD
- 2:30pm Critical Illness Myopathy: Clinical and Electrophysiological Findings
Brent Goodman, MD
- 3:00pm Critical Illness Neuropathy: Clinical and Electrophysiological Features
Christopher S. Nance, MD

Setting Up for Success in Long-Term Monitoring

- 2:00pm The Value of ABRET Credentials & LAB-LTM accreditation
Janice Walbert, MS, CAE, FACNS
- 2:30pm Expanding the Role of the Neurodiagnostic Technologist in the Long-Term Monitoring Unit
Susan Agostini, R. EEG/EP T., CLTM, FASET
- 3:00pm New Initiatives in Long-Term Monitoring
Erik Padilla, R. EEG/EPT., CNIM, CLTM, MBA

3:30-3:45pm - Walking Break

3:45-5:15pm - Concurrent Sessions

Brainstem and Supratentorial Surgery Monitoring, New Developments and Current Understanding

- 3:45pm Brainstem and Spinal Cord Reflexes, Neurophysiology and IOM Perspective.
Vedran Deletis, MD, PhD
- 4:45pm Supra Tentorial Brain Tumor Surgery: IOM Update- What is New?
Andrea Szelenyi MD, PhD

Advanced Autonomic Testing

- 3:45pm Autonomic Testing
Thomas Chelimsky, MD
- 4:15pm Central Dysautonomia, MD
Max J. Hilz, MD
- 4:45pm Quantitative Evaluations of Autonomic Failure, Overactivity and Severity Small Fiber Neuropathy
Peter Novak, MD, PhD

SEEG Planning Based on Presurgical Evidence - Illustrative Case Discussions, Interactive.

- 3:45pm "Guiding Principles in the Use of SEEG"
Jun T. Park, MD, FAES
- 4:05pm "Illustrative Cases-Pediatric"
Elia M. Pestana-Knight, MD, FACNS
- 4:25pm "Illustrative Cases-Adult"
Guadalupe Fernandez Baca-Vaca, MD
- 4:45pm "Illustrative Cases-Adult/Pediatric"
Asim Shahid, MD

Advances in Continuous EEG in Targeted Temperature Management

- 3:45am Machine Learning of Continuous EEG Data
Michel Van Putten, MD, PhD
- 4:15pm ERP in Anoxic Brain Injury
Edilberto Amorim, MD
- 4:45pm cEEG, MRI, and Other Biomarkers of Anoxic Brain Injury After TTM
Jong Woo Lee, MD, PhD, FACNS

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.
- 6:15pm Schwab Award Presentation and Lecture
Michael J. Aminoff, MD

Sunday, February 10, 2019

8:00-9:30am - Concurrent Sessions

Functional Brain Mapping Using Invasive Electrodes

- 8:00am Introduction
- 8:10am FBM with Subdural Grids
Elson Lee L. So, MD, FACNS
- 8:30am Localization and FBM with SEEG
Patrick Chauvel, MD
- 8:50am Advanced FBM
Antony L. Ritaccio, MD
- 9:10am ECOG and FBM
Jessica W. Templer, MD

Advances in the Neurophysiologic Assessment of Neuromuscular Junction Disorders

- 8:00am Repetitive Nerve Stimulation: Advances, Techniques, and Limitations
Devon Rubin, MD, FACNS
- 8:30am Update in Single Fiber EMG and Concentric Needle EMG in the Diagnosis of Neuromuscular Junction Disorders
Carolina Barnett-Tapia, MD, PhD
- 9:00am Advancing Neurophysiologic Techniques in the Evaluation of Neuromuscular Junction Disorders
Hans D. Katzberg, MD, MSc, FRCPC

ANNUAL MEETING PROGRAM

Night Moves: Common and Uncommon Parasomnias Clinical Neurophysiologists Need to Know

- 8:00am Value of Video-Polysomnography, Stereo-EEG and Functional Connectivity to Understand NREM Arousal Disorders in Adults
Madeleine Grigg-Damberger, MD
- 8:30am Uncommon Parasomnias in Infants and Children Sometimes Misdiagnosed as Sleep-Related Epilepsy
Kathy M. Wolfe, MD
- 9:00am Treatable Parasomnias and Sleep-Related Movement Disorders Which Herald Neuropathology in Older Adults
Nancy Foldvary-Schaefer, DO

10:00-11:30am - Concurrent Sessions

Peripheral Nerve Trauma: From the ER to the OR (Joint ACNS/ Colombian Association of Electrodiagnostic Medicine Symposium)

- 10:00am Pathophysiology of Peripheral Nerve Injury: Sequence of Events and its Electrodiagnostic Correlation
Jorge Gutierrez, MD, MSc
- 10:25am Rehabilitation and Pain Management of Peripheral Nerve Injuries
Carlos Rangel MD, MBa
- 10:50am Surgical Strategy and Role of IONM in the Treatment of Peripheral Nerve Trauma
Jaime Lopez, MD, FACNS
- 11:15am Q&A

Epileptic Spasms and Hypsarrhythmia: Lessons from Modern Techniques

- 10:00am fMRI and MEG Contribution to the Pathophysiology, Diagnosis and Anagement of Epileptic Spasms.
Ana Carolina Coan, MD
- 10:20am Slow and Fast Frequency Oscillations in Patients with Epileptic Spasms.
Eishi Asano, MD, PhD, MS (CRDSA)
- 10:40am Surgery Versus no Surgery in Epileptic Spasms: Does the EEG Matters?"
Ahsan Moosa Naduvil, MD
- 11:00am Case Discussion
Elia M Pestana Knight, MD, FACNS

Noninvasive Brain Stimulation

- 10:00am Noninvasive Brain Stimulation: An Overview
Charles Epstein, MD, FACNS
- 10:20am Focused Ultrasound Stimulation
Seung-Schik Yoo, PhD, MBA
- 10:40am Transcranial Electrical Stimulation
Giulio Ruffini, PhD
- 11:00am Improving Noninvasive Brain Stimulation by Preclinical Research
Alexander Rotenberg, MD, PhD

ADVANCE REGISTRATION FORM

AMERICAN CLINICAL NEUROPHYSIOLOGY SOCIETY 2019 ANNUAL MEETING & COURSES

February 6-10, 2019 | Caesar's Palace | Las Vegas, Nevada

(Please type or print clearly.)

ACNS ID# (optional) _____

First (Given) Name _____ Middle Initial _____ Last (Family) Name _____

Designation (MD, PhD, DO, etc.) _____ Institution _____

Mailing Address _____

City _____ State/Province _____

Zip/Postal Code _____ Country _____

Phone _____ Fax _____ Email _____

ANNUAL COURSES – Wednesday, February 6 – Friday, February 8, 2019

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	Non-Member Residents, Fellows, Technologists
Wednesday, February 6				
9:00am-5:00pm 601: Epilepsy Surgery/Invasive EEG Course Part I	<input type="checkbox"/> \$175	<input type="checkbox"/> \$230	<input type="checkbox"/> \$95	<input type="checkbox"/> \$140
9:00am-5:00pm 602: Intensive Care Unit EEG (Part I)	<input type="checkbox"/> \$175	<input type="checkbox"/> \$230	<input type="checkbox"/> \$95	<input type="checkbox"/> \$140
9:00am-5:00pm 603: Neurophysiologic Intraoperative Monitoring (NIOM) Part I	<input type="checkbox"/> \$175	<input type="checkbox"/> \$230	<input type="checkbox"/> \$95	<input type="checkbox"/> \$140
Thursday, February 7				
7:00-8:30am 701: Evoked Potentials	<input type="checkbox"/> \$75	<input type="checkbox"/> \$95	<input type="checkbox"/> \$35	<input type="checkbox"/> \$65
7:00-8:30am 702: Central EEG Technical	<input type="checkbox"/> \$75	<input type="checkbox"/> \$95	<input type="checkbox"/> \$35	<input type="checkbox"/> \$65
7:00-8:30am 703: Epilepsy Surgery/Invasive EEG Course Part II	<input type="checkbox"/> \$85	<input type="checkbox"/> \$100	<input type="checkbox"/> \$45	<input type="checkbox"/> \$75
9:00am-12:00pm 711: Intensive Care Unit EEG (Part II)	<input type="checkbox"/> \$85	<input type="checkbox"/> \$100	<input type="checkbox"/> \$45	<input type="checkbox"/> \$75
9:00am-3:00pm 713: EMG/Peripheral Nervous System	<input type="checkbox"/> \$175	<input type="checkbox"/> \$230	<input type="checkbox"/> \$95	<input type="checkbox"/> \$140
9:00am-5:00pm 712: Neurophysiologic Intraoperative Monitoring (NIOM) Part II	<input type="checkbox"/> \$175	<input type="checkbox"/> \$230	<input type="checkbox"/> \$95	<input type="checkbox"/> \$140
11:30am-2:00pm 721: 5th Annual CNP Program Director's Symposium	<input type="checkbox"/> \$30	<input type="checkbox"/> \$30	<input type="checkbox"/> \$30	<input type="checkbox"/> \$30
1:30-3:00pm 731: Autonomic Neurophysiology	<input type="checkbox"/> \$75	<input type="checkbox"/> \$95	<input type="checkbox"/> \$35	<input type="checkbox"/> \$65
3:00-4:30pm 741: Video-EEG (Part I)	<input type="checkbox"/> \$85	<input type="checkbox"/> \$100	<input type="checkbox"/> \$45	<input type="checkbox"/> \$75
3:00-4:30pm 742: EMG Demo	<input type="checkbox"/> \$85	<input type="checkbox"/> \$100	<input type="checkbox"/> \$45	<input type="checkbox"/> \$75
Friday, February 8				
7:00-10:00am 801: Basic EEG	<input type="checkbox"/> \$85	<input type="checkbox"/> \$100	<input type="checkbox"/> \$45	<input type="checkbox"/> \$75
7:00-10:00am 802: Neuromodulation/Stimulation	<input type="checkbox"/> \$85	<input type="checkbox"/> \$100	<input type="checkbox"/> \$45	<input type="checkbox"/> \$75
7:00-10:00am 804: Neonatal EEG	<input type="checkbox"/> \$75	<input type="checkbox"/> \$95	<input type="checkbox"/> \$35	<input type="checkbox"/> \$65
8:30-10:00am 805: Video EEG (Part II)	<input type="checkbox"/> \$75	<input type="checkbox"/> \$95	<input type="checkbox"/> \$35	<input type="checkbox"/> \$65
Annual Courses Total (A): _____				

ANNUAL MEETING/SCIENTIFIC PROGRAM - Friday, February 8 through Sunday, February 10, 2019

	ACNS Members	Non-Members	ACNS Junior & Technologist Members	Non-Member Residents, Fellows, Technologists
Friday, February 8 - Sunday, February 10				
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): _____				



ADVANCE REGISTRATION FORM

Please check below the sessions you plan to attend which are included in the Annual Meeting registration fee. 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 8

7:00-10:00am

- ☐ 803: Women's Leadership Symposium

1:30-3:30pm

- ☐ 811: The Motor Evoked Potential: Fundamentals and Clinical Applications. A High-Level Scientific Symposium
- ☐ 812: Beyond QEEG: Artificial Intelligence in Clinical Neurophysiology
- ☐ 813: Critical Care ECoG: How to Integrate It Into Your Practice
- ☐ 814: Current and Future Clinical Practice of High Density EEG and Electrical Source
- ☐ 815: The Business Side of Clinical Neurophysiology

4:00-5:30pm

- ☐ 821: Brachial Plexopathies – Improving Your Diagnostic Skills
- ☐ 822: Brain-Computer Interface: The Dawn of a New Era for Patients with Neurological and Motor Deficits
- ☐ 823: Clinical Neurophysiology Resident and Fellow Special Interest Groups

Saturday, February 9

8:00-9:30am

- ☐ 901: Intraoperative Neurophysiologic Monitoring in Special Situations. American-Mexican Clinical Neurophysiology Symposium
- ☐ 902: Mapping Human Language Networks with Intracranial EEG Spectra
- ☐ 903: Mastering Semi-Quantitative Motor Unit Potential Analysis Skills in 90 Minutes!
- ☐ 904: Of Dreams and Spells – The Neurophysiological Tools of REM Sleep and Epilepsy
- ☐ 905: Decision Making with Neurostimulation

11:15am-12:45pm

- ☐ 911: The Diagnostic Challenge of Small Fibre Neuropathy
- ☐ 912: Functional Brain Mapping Using Invasive Electrodes
- ☐ 913: Joint ACNS/IFCN Latin American Chapter: Beyond Traditional Monitoring During Spine Surgery
- ☐ 914: Multimodality Monitoring in the EMU

2:00-3:30pm

- ☐ 921: Are MEG Practitioners Fulfilling Your Expectations?
- ☐ 922: Can Clinical Neurophysiology Improve the Recovery from Sports Induced Injuries?
- ☐ 923: Electrophysiologic Assessment of Weakness in the ICU
- ☐ 924: Setting Up for Success in Long-Term Monitoring
- ☐ 925: Transcranial Magnetic Stimulation: German Society for Neurology

3:45-5:15pm

- ☐ 931: Advanced Autonomic Testing
- ☐ 932: Advances in Continuous EEG in Targeted Temperature Management
- ☐ 933: Brainstem and Supratentorial Surgery Monitoring, New Developments and Current Understanding
- ☐ 934: SEEG Planning Based on Pre-Surgical Evidence: Illustrative Case Discussions, Interactive

Sunday, February 10

8:00-9:30am

- ☐ 1001: Advances in the Neurophysiologic Assessment of Neuromuscular Junction Disorders
- ☐ 1002: Night Moves: Common and Uncommon Parasomnias Clinical Neurophysiologists Need to Know
- ☐ 1003: Wide-band EEG for Epilepsy: Which is Already Established Tool or Still Research Topic?

10:00-11:30am

- ☐ 1011: Noninvasive Brain Stimulation
- ☐ 1012: Peripheral Nerve Trauma: From ER to the OR (Joint ACNS/Colombian Association of Electrodiagnostic Medicine Symposium)
- ☐ 1013: Epileptic Spasms and Hypsarrhythmia: Lessons from Modern Techniques

Social & Networking Events *(no additional charge)*

- ☐ I will attend the Welcome Reception on Friday, February 8 from 7:00-8:30pm.
- ☐ I would like to participate in the Neurophys Bowl on Friday, February 8. Please contact me with details!
- ☐ I am interested in taking part in the ACNS Mentorship Program. Please contact me for more information.
 - ☐ I would like to be a mentor.
 - ☐ I would like to be a mentee.

I am interested in donating 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	\$ _____
Total Donation (C): _____	

ADVANCE REGISTRATION FORM

Payment Information

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

- ☐ Company Check – Make check payable to American Clinical Neurophysiology Society (in US Dollars, drawn on a US bank)
☐ Credit Card (check one): ☐ VISA ☐ MasterCard ☐ Discover
☐ Please invoice me.

Credit Card Number _____ Expiration Date _____

Card Holder Name _____

Authorized Signature _____ Date _____

Registrations will not be processed without payment and signature.

Signature of Agreement. Please retain a copy for your records. You are hereby registering to attend the 2019 ACNS Annual Meeting & Courses, February 6-10, 2019, at Caesar's Palace in Las Vegas, Nevada. 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, 2019. A \$20 processing fee will be charged for all refunds. We regret refunds will not be guaranteed for requests postmarked or received after January 20, 2019.

Waiver. Submission of this registration form and payment of associated fee serves as agreement by the delegate to release the American Clinical Neurophysiology Society, Caesar's Palace, 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.

Policies. I have been made aware of ACNS' data privacy and conduct policies and understand that my signature means that I will adhere to the said terms and policies.

- ☐ I wish to be included on the delegate list provided to supporters.
☐ I wish to be included on any published delegate list including programs, mobile apps, etc.

SPECIAL NEEDS

- ☐ I have a religious or allergy-related dietary restriction. Please explain:

- ☐ I have a need for physical assistance. Please explain:

How did you hear about this meeting?

- ☐ I'm an ACNS Member ☐ ACNS Website
☐ ACNS Emails ☐ ACNS Postcard
☐ Colleague/Word of Mouth - Please specify: _____
☐ Through another organization/meeting - Please specify: _____
☐ Other - Please specify: _____

Please return this registration form with required payment to

American Clinical Neurophysiology Society, Attn: Meetings Department

555 E. Wells Street, Suite 1100 • Milwaukee, WI 53202 • Fax: (414) 276-3349 • E-mail: info@acns.org



ACNS Executive Office
555 E Wells St, Suite 1100
Milwaukee, WI 53202

Preliminary Program

www.acns.org

W E L C O M E

2019 Annual Meeting & Courses

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

