



ASNM
American Society of
Neurophysiological Monitoring

2019

ASNM ANNUAL MEETING

Chicago Downtown Marriott Magnificent Mile
Chicago, Illinois

May 3-5, 2019



1 MEETING OBJECTIVES

Attendees should come away with:

1. A clearer understanding of the methodologies and practice of IONM from the neurophysiologist, technologist, anesthesiologist and surgeon perspective.
2. A stronger understanding of how data can be used to advance the field of IONM.
3. Information about the current research and evidence for IONM.
4. How cross-collaboration can strengthen IONM effectiveness.

2 TARGET AUDIENCE

Beginner to advanced IONM practitioners, including technologists, neurophysiologists, physicians, (surgeons, neurologists, anesthesiologists, etc.) and individuals involved in intraoperative neuromonitoring.

3 PLANNING COMMITTEE

Jay L. Shills,
PhD, DABNM, FASNM, FACNS

Laura B. Hemmer,
MD

Cayla Marconi,
Executive Director, ASNM



2019 FALL SYMPOSIUM
September 13-15
2019

Hyatt Regency
Boston

Boston,
Massachusetts

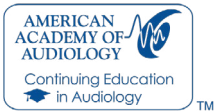
CONTINUING EDUCATION

ASNM Continuing Education Credit



ASNM is an ABRET approved provider of continuing education for their IONM related credentials. ABRET is the credentialing board for Electroencephalographic (EEG) Technologists, Evoked Potential (EP) Technologists, and Neurophysiologic Intraoperative Monitoring (CNIM) Technologists, Long Term Monitoring (CLTM) Technologists, and Autonomic Testing Professionals (CAP). Such crediting, however, should not be construed by program participants as endorsement of any type of instruments or supplies mentioned or involved in these presentations. Please be advised that for continuing education hours to apply towards the EEG test, they must be ASET CEUs; however, ASNM CEUs are eligible for the recertification of the EEG credential as well as towards CNIM and EP credentials and recertification.

American Academy of Audiology Continuing Education Credit

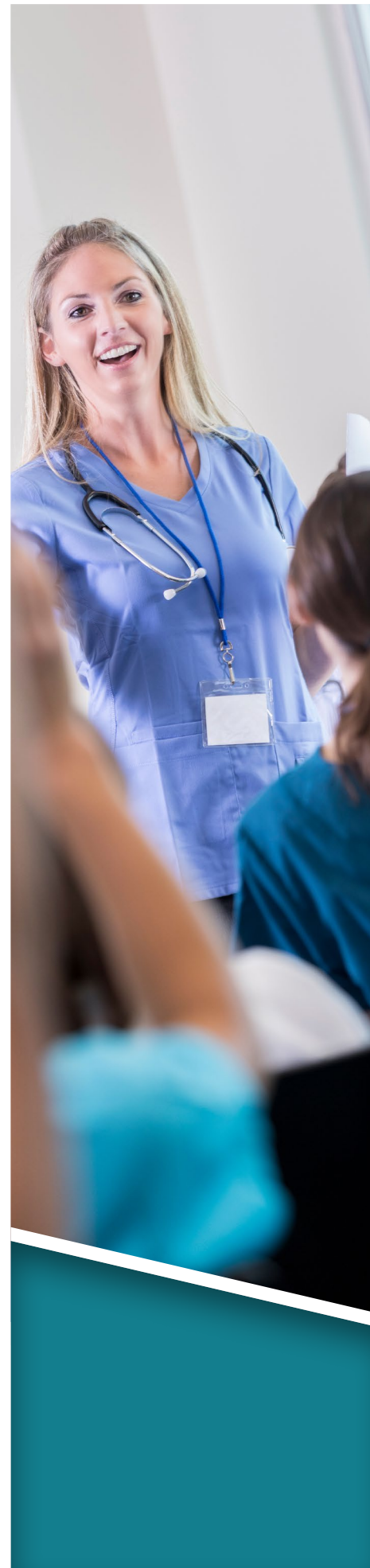


The American Society of Neurophysiological Monitoring (ASNM) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. *ASNM designates this live activity for a maximum of 15.5 AMA PRA Category 1™ Credits.* Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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AGENDA

THURSDAY, MAY 2

4:00p–7:00p	Registration Open <i>5th Floor</i>
6:00p–8:00p	ABNM Board Prep (additional charge) Jeffrey Balzer, PhD, FASNM, DABNM <i>Miami Room</i>
6:00p–8:30p	CNIM Board Prep (additional charge) James Watt, Jr., CNIM, R.EPT <i>Los Angeles Room</i>

FRIDAY, MAY 3

7:00a–7:45a	Breakfast with Exhibitors
7:45a–8:00a	Introductions Dr. Laura Hemmer, Dr. Jay Shills, Dr. Jeff Gertsch
8:00a–8:45a	The Future of IONM Dr. Bryan Wilent
8:45a–9:30a	The Functional Anatomy of the Brain Cortex and Its Subcortex Pathway for IONM Dr. Lanjun Guo
9:30a–10:15a	Monitoring for Spine Instrumentation Surgery Dr. Faisal Jahangiri
10:15a–10:45a	Break
10:45a–11:30a	Weighing the Effects of Pathology on IONM: Scales Dr. Jeff Balzer
11:30a–12:15p	The Value of Simulation for IONM Dr. Lawrence Wierzbowski
12:15p–2:00p	Lunch on Your Own
2:00p–2:45p	Neuromonitoring for Functional Neurosurgery Dr. Jay Shills
2:45p–3:30p	Functional Neurosurgery Dr. Joshua Rosenow
3:30p–4:00p	Break
4:00p–5:30p	Economics and IONM Panel Ms. Clare Gale, Dr. Trey Lee, Dr. John Ney, Dr. Anthony Sestokas Moderator – Dr. Gene Balzer
5:30p–8:00p	Cocktail Party

AGENDA

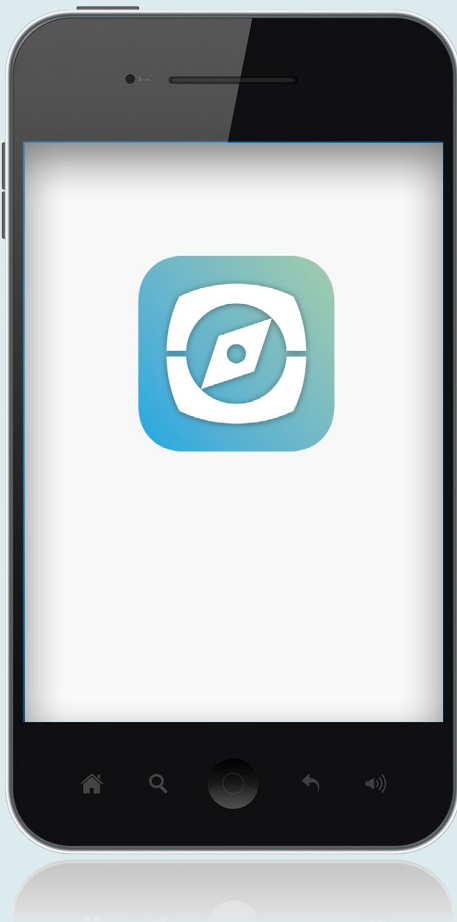
SATURDAY, MAY 4

7:00a–7:45a	Breakfast with Exhibitors
7:45a–8:00a	Introductions Dr. Laura Hemmer, Dr. Jay Shils, Dr. Jeff Gertsch
8:00a–8:45a	Anesthesia and Its Impact on IONM Dr. Laura Hemmer
8:45a–9:30a	Minimally Invasive Spine Surgery Dr. Nader Dahdaleh
9:30a–10:15a	Brainstem Reflex Monitoring Dr. Sedat Ulkatan
10:15a–10:45a	Break
10:45a–12:30p	IONM Literature Panel: Key Recent Papers and Experts' Comments Dr. Jeff Balzer, Dr. Robert Holdefer, Dr. John Ney, Dr. Stanley Skinner, Dr. Rich Vogel Moderator — Dr. Tara Stewart
12:30p–2:30p	Business Lunch
2:30p–3:00p	Recent Challenging Cases Dr. Antoun Koht
3:00p–4:00p	Presidential Lecture Dr. Scott Makeig
4:00p–4:30p	Break
4:30p–5:15p	Medical Error Avoidance — Communication in the Operating Room Dr. Stanley Skinner
5:15p–6:00p	Basic Physiology of the Motor System (Focus on D-waves and MEPs) Dr. Vedran Deletis

SUNDAY, MAY 5

7:30a–8:00a	Breakfast with Exhibitors
8:00a–8:45a	Evidence Based Neuromonitoring Dr. Robert Holdefer
8:45a–10:15a	Medically Interesting Case and Scientific Abstract Presentations Various Presenters
10:15a–10:45a	Break
10:45a–11:30a	Deep Brain Stimulation for the Persistent Vegetative/ Minimally Conscious Patient Dr. Vedran Deletis
11:30a–12:15p	Intracranial Neurovascular Surgery Dr. Matthew Potts
12:15p–12:30p	Closing Dr. Rich Vogel

ACTIVITIES



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FACULTY

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Associate Professor at Albert Einstein College of
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Quality Assurance, Remote Technical Supervisor
Comprehensive Neuromonitoring

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President and Chief Medical Officer
Real Time Neuromonitoring Associates

Scott Makeig, MD

Presidential Speaker
Institute for Neural Computation, UCSD

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Neurologist
Veterans Affairs Medical Center

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FACULTY DISCLOSURE STATEMENTS

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John Ney, MD

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Anthony K. Sestokas, PhD, DABNM, FASNM

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W. Bryan Wilent, PhD, DABNM

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Laura B. Hemmer, MD

has disclosed no relevant financial relationships

Cayla Marconi, Executive Director

has disclosed no relevant financial relationships

E-POSTERS

Long-Latency Motor Evoked Potentials (LLMEPS): Open the TceMEP Recording Window for an Expanded View
David Barnkow, AuD, DABNM, CCC-A

Cotibulbar Motor Evoked Potentials of Extraocular Muscles During Skull Base Surgery: A Feasible, Reproducible and Useful New Methodology

Juan P. Cabrera C; Esteban Torche V; Francisco Luna A; Sebastián Viguera A; José L. Cuevas S; Jaime Pinto V; Eduardo López F; Guillermo Valdés I

Mapping the Median Nerve for Brachialis to Anterior Interosseous Nerve Transfer

Nicholas Chulski, BA, CNIM

Antidromic Sensory Potential Mapping Predicts Sensory Deficits Following Root-Entry Zone Rhizotomies For Trigeminal Neuralgia

J.P. Clark III, PhD, DABNM, CNIM; Edward Chung, MD

A Hypothetical Proposal Application of IONM in Nerve Rerouting Procedure and a Brief Historical Review of Electrophysiological Study on The Xiao's Procedure

Shuiping Dai MD, PhD, DABNM

Triggered Electromyogram Recordings From Urethral Electrodes

Faisal R. Jahangiri, MD, CNIM, DABNM, FASNM; Rabehah Asdi

The Impact of Brainstem Flexes in Posterior Fossa Surgery As a True Continuous Monitoring Technique

Mirallave Pescador A; Téllez MJ; Sánchez Roldán MA; Pollock J; Ulkatan S

An Improved Methodology For Eliciting A Reliable Somatosensory Evoked Potential of The Saphenous Nerve During Spine Surgeries

Mora Granizo F; Sánchez Roldán MA; Téllez MJ, Ulkatan S

Multimodality IONM Changes During Oblique Lateral Interbody Fusion

Kathryn Overzet, MS, CNIM; Lindsay Krisko, CNIM

Reducing Accidental Needlesticks During IOM Procedures

Grace Padilla-Kastenbergh, MPH; Brent Tyler, MD, CNIM

Intra-Operative TcMEPs Monitorable on Dejerine-Sottas Patient

Amanda Schaefer, DABNM; Gowri Lakshminarayan, MD; Kelli Klein

T9-T10 Fracture In a Patient with Morbid Obesity and Ankylosing Spondylitis: Case Report

Yinchen Song PhD; Erik J. Kobylarz MD, PhD; Linton T. Evans, MD; Brandon K. Root MD; Daniel R. Calnan MD, PhD; Stephanie A. Ferri CNIM; George P. Thomas Jr. MD, PhD

False Negative Cortical SSEPs in Spinal Cord Tumor Resection: What Can We Learn About the Neurophysiology?

Richard Vogel, PhD; Derek Connor, DHA; Adam Doan, DC

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Medtronic

Medtronic

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Nihon Kohden is the leading manufacturer, developer and distributor of medical electronic equipment, with subsidiaries in the U.S., Europe and Asia. The company is a trusted source for patient monitoring, sleep assessment, neurology and cardiology instrumentation solutions, and has been recognized for the highest customer satisfaction among U.S. hospitals and health systems for 40 consecutive quarters (MD Buyline).

RhythmLink

RhythmLink

rhythmink.com

RhythmLink International is a medical device manufacturing company specializing in devices that help connect patients to machines to record or elicit physiologic information. RhythmLink designs, manufactures and distributes a variety of medical devices for intraoperative neuromonitoring, electroencephalography, evoked potentials, polysomnography, long-term monitoring epilepsy and critical care units. Founded by neurodiagnostic technicians and engineers in 2002, RhythmLink enhances patient care worldwide by transforming medical device technology that links patients to equipment. RhythmLink also offers custom packaging, custom products, private labeling and contract manufacturing services.

SIGNAL GEAR. we do neurodiagnostic accessories

Signal Gear

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Signal Gear is a medical device company focused on designing and developing neurodiagnostic accessories. Founded on the premise that passionate, thoughtful study is key to innovation and creativity, we study the scientific literature, the patient and clinical practice. Our goal is to provide the optimal patient product for each specialty, from the clinical office setting to the operating room, by tirelessly testing products in our electrical, mechanical, and clinical test labs. Stop by our booth and introduce yourself. We'd love to meet you and hear about your work!

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Our mission: bringing cost-effective EEG services to every hospital, practice, and clinic. Cost of equipment, availability of EEG techs and neurophysiologists, or location should not be a factor in the accessibility of EEG services.



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We strive to improve the quality of life for every patient we serve by safeguarding their neural pathways. IntraNerve is patient driven, cost-attentive, focused on the continuing medical education of our clinical staff, and dedicated to distinction in the field of neurophysiological monitoring.



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Spes Medica

spesmedica.com

Spes Medica is pleased to announce its official launch into the United States. Spes Medica specializes in the production of electromedical devices. We offer our customers innovative solutions to be used in Neurodiagnostics, Intraoperative Monitoring, Cardiology and Physiotherapy fields. We have offices in 13 cities around the world. Thanks to our 18 years of experience and our collaboration with research organizations/ hospitals, we were able to develop and consolidate our know-how. Our goal is building high quality products to improve the quality of diagnostic tests and therapies.

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Located in the heart of the technology district in Milford, OH, Consolidated Neuro Supply, Inc. is a leading provider of healthcare products used to monitor critical neurological structures during high-risk surgical procedures. With nearly \$5 million in annual sales, product offerings include subdermal needle electrodes, pedicle screw and direct nerve stimulators, laryngeal electrodes, surface electrodes, and other IONM accessories. Our line includes our own brands as well as those from other industry leaders. The company has been in business since June 2003.



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At Feel Good Inc., we've done the research for you. We work with certified chiropractors and physical therapists to vet the quality of our products, and only offer items that are FDA cleared (as a Class II Medical Device) for anyone can use, at home or on the go!



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Max Neuro Supply Inc. is a provider of health-care products used to diagnose neurological disorders, and monitor critical neurological structures during high-risk surgical procedures. The product line includes sub-dermal needles, surface electrodes, disposable bipolar, mono-polar, and concentric direct nerve probes.



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Natus Neuro is a global market leader that provides diagnostic, therapeutic and surgical solutions built on a strong heritage in neurodiagnostics, neurocritical care and neurosurgery. Natus Neuro delivers clinician-led products that improve outcomes and enhance care for neuro patients through leading-edge equipment, service, education and supplies.



Neurogen Network

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The NGN mission is to take the Neuromonitoring industry to the next level with quality software that combines an unmatched user experience and advanced back-end processing. We offer users of all technical skill level a window into their data through our reporting software that can change everyday business decisions into data-founded executive strategies.



Procirca

procirca.com

Procirca pioneered and perfected on-site and remote IONM. Procirca monitors over 7,000 procedures annually, and our name is synonymous with the highest standards of education and training in the industry. Procirca's quality, experience and excellence were integral to UPMC, our parent company, receiving the prestigious, ABRET IONM Lab Accreditation.



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Synaptic Resources

synapticresources.com

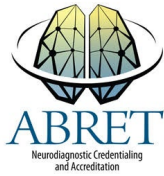
Synaptic Resources (SR), a leader in Intraoperative Neurophysiologic Intraoperative Monitoring (IONM) was formed in 2005 and is headquartered in Tulsa, Oklahoma. SR has rapidly expanded with local offices throughout Oklahoma, Texas and Florida. Today, SR is poised for future growth because of our team of highly responsive and respected Electroneurodiagnostic (END) Technicians and seamless management infrastructure. More and more Surgeons and Hospitals choose SR because we deliver a high quality service with a local touch



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ABRET

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ABRET Neurodiagnostic Credentialing & Accreditation offers five credentials (R. EEG T.®, R. EP T.®, CNIM®, CLTM®, CAP®) the CMEG certificate program, and three laboratory accreditation programs (LAB-EEG, LAB-NIOM, and LAB-LTM.) Learn more about credentialing, laboratory accreditation, view resources and receive assistance in recruiting neurodiagnostic technologists.



ASET

aset.org

The American Society of Electroneurodiagnostic Technologists is the largest national professional association for individuals involved in the study and recording of electrical activity in the brain and nervous system. Organized in 1959, ASET's mission is to provide leadership, advocacy and professional excellence for our members, creating greater awareness of the profession and establishing standards and best practices to ensure quality patient care.

Global Organization of Health Education

Global Organization of Health Education

gohealthed.org

At the Global Organization of Health Education, we are changing the way medical missions have been carried out for years, beginning with a pilot project in Ethiopia that we will replicate in many nations in the future. We use telemedicine and volunteer professionals to offer medical education to people in developing nations. We have partnered with Mekelle University to establish a Neuroscience training program. Equipment for this program included three portable electroencephalogram (EEG) machines. With this equipment, the University of Mekelle has the technology that is required to continue a self-sustained education program in Neurosciences for future students.

We hope to implement future projects in other countries that have a similar structure to our Ethiopia pilot project.

We continue to partner with various health and technology corporations to support our projects, which in turn benefits these corporations through acknowledgement of donations and contribution to the progression and results of our projects.

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Part 1 of 2: Review of IONM Nuances relative to Lumbar Interbody Surgical Approaches including: PLIF, TLIF, MI-TLIF, OLIF/ATP, LLIF and ALIF

Wednesday, May 22, 2019 • 7:00 PM Eastern

Mike Riley, MS, CNIM

President of Peak Neurophysiology Group, LLC

Mike has a background in cellular, systems, and developmental neuroscience, earning his Master of Science degree from Cornell University in 2010. He then completed a 1 year fellowship in Clinical Neurophysiology at Surgical Monitoring Associates; one of the very first private IONM groups in the country. Mike has personally monitored over 1,800 surgical procedures and is a firm believer that IONM clinicians should be experts in both the technical and interpretive components of their practice. He is currently the President and CEO of Peak Neurophysiology Group, and is actively promoting this professional model of IONM delivery to hospitals and surgical groups around the country.

Chris Martin, R.EP T., CNIM

Neurophysiologist at Neuro Alert

Chris has been in IOM since 1991, in both academic (with David Loiselle, PhD, at University of Rochester, and Mark Stecker, MD PhD, at the University of Pennsylvania), and private-provider settings. He received his R.EP.T. in 1995 and his CNIM in 1998 (#213). He has contributed to journal publications and book chapters and has spoken extensively on Intraoperative monitoring at conferences across the United States, and in Europe, the Middle East, Asia and South America.

Chris has previously been an ABRET examiner for the Evoked Potential section, an invited manuscript referee, and has been an active member of the ASNM Ethics Committee since 2011.



Part 2 of 2: Review of IONM Nuances relative to Lumbar Interbody Surgical Approaches including: PLIF, TLIF, MI-TLIF, OLIF/ATP, LLIF and ALIF

Wednesday, June 19, 2019 • 7:00 PM Eastern

Mike Riley, MS, CNIM

President of Peak Neurophysiology Group, LLC

Chris Martin, R.EP T., CNIM

Neurophysiologist at Neuro Alert





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