Symposium Objectives

Annual Meeting Objectives: The focus of this meeting is:
1. To gain a better understanding of how the surgeon views the role of IOM.
2. Understand IOM from a procedural standpoint instead of the common modality standpoint.
3. Get a small picture of the future of IOM.
4. Discuss the role of evidence-based medicine as it not only relates to IOM, but to medicine in general.

Session Descriptions

These sessions are designed to present IOM as they relate to surgical procedures. Common modalities are used across multiple procedures, yet the criteria used, the anatomy, the approach, the criticality of interpretation time, and the presentation of the data to surgeon needs to be adjusted for given procedures. Each procedure will have a lecture from a surgical specialist in that field followed by a lecture given by a neurophysiologist specialist in the field. The surgical lecture will include the anatomical approach, the points where the surgeon is most interested in IOM data, and times where IOM data may be given but may play less of a role due to certain conditions in the procedure. The physiologists lecture will include methodology, examples, and critical literature relating to monitoring the specific procedure.

Target Audience

Beginner and advanced IOM practitioners including technologist, neurophysiologist, MD’s, and individuals involved in the business aspect of intraoperative monitoring.

Planning Committee

John McAuliffe, III, MD, MBA, FAAN, FAsMA
Christoph Seubert, MD, PhD, DABNM
Kimberly LaBounty, Executive Director, ASNM
Kelly Geegan, Meeting Manager, ASNM

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ASNM’s 2014 Annual Meeting Agenda

Thursday, May 1, 2014

8:00am - 5:00pm
Board Meeting

5:00pm - 8:00pm
Registration Open

6:00pm - 8:00pm
ABNM Board Prep
Kent Rice, MS, CNIM, R. EP T., DABNM

6:00pm - 8:30pm
CNIM Board Prep
James Watt, Jr., CNIM, R. EP T.

Friday, May 2, 2014

7:00am - 7:30am
Registration and Breakfast

Track 1 - Spine & Spinal Cord

7:30am - 7:45am
Introduction
Jack Hastings, MD, FAAN, FASMA, ASNM President

7:45am - 8:30am
Adult Deformity - Surgical Perspective
Tyler R. Koski, MD

8:30am - 9:15am
Monitoring the Spinal Cord
Rebecca Clark-Bash, R. EEG\EP T., CNIM, CLTM, FASNM

9:15am - 10:00am
Minimally Invasive Spine Surgery - A Surgical Perspective
Nader Dahdaleh, MD

10:00am - 10:30am
Morning Break with Exhibitors

10:30am - 11:15am
Challenges and Special Considerations for Monitoring EMG
Josh Mergos, MS, CNIM

11:15am - 12:00pm
Mapping the Brachial Plexus
Faisal R. Jahangiri, MD, CNIM, DABNM, FASNM

12:00pm - 1:30pm
Lunch on your own

Track 2 - Intracranial

7:30am - 7:45am
Introduction
Christoph Seubert, MD, PhD, DABNM

7:45am - 8:30am
Neurovascular Surgery - Surgical Perspective
Bernard R. Bendok, MD

8:30am - 9:15am
Monitoring Aneurysms
Laura Hemmer, MD

9:15am - 10:00am
Mapping the Posterior Fossa
Francesco Sala, MD

10:00am - 11:15am
Mapping the Posterior Fossa
Francesco Sala, MD

11:15am - 12:00pm
Interoperative Cranial Nerve Monitoring: Anatomy, Electrophysiology & Technique
Jeffrey Balzer, PhD, DABNM, FASNM

12:00pm - 1:30pm
Lunch on your own
The Brain - Topology and Connectivity (Joint Sessions)

Saturday, May 3, 2014

7:00am - 7:45am
Breakfast with the Experts

7:45am - 8:00am
Introduction
John McAuliffe III, MD, MBA, FAAP, DABNM

8:00am - 8:45am
fMRI - Connecting Anatomy and Physiology
James Leach, MD

8:45am - 9:30am
Integrating fMRI into Perioperative Care - Cases
James Leach, MD

9:30am - 10:00am
Morning Break with Exhibitors

10:00am - 10:45am
EEG and the Mechanisms of Consciousness
George Mashour, MD, PhD

10:45am - 11:30am
Signal Processing and Future Applications of EEG
John McAuliffe III, MD, MBA, FAAP, DABNM
11:30am - 12:30pm
Presidential Lecture: Telemedicine – One’s Healthcare of the Future
Christopher Veremakis, MD

12:30pm - 1:45pm
Business Lunch (ASNM Members Only)

2:00pm - 3:30pm
E-Poster Presentations

3:30pm - 4:00pm
Break with Exhibitors

4:00pm - 4:45pm
Preserving Cerebral Perfusion - Bypass and Other Techniques
Mario Zuccarello, MD

4:45pm - 5:30pm
NIRS – The Current State
J. “Nick” Pratap, MA, MB BChir, MRCPCH, FRCA

5:30pm - 6:15pm
NIRS - Does It Have a Role In the Future of Neurophysiological Monitoring
John McAuliffe III, MD, MBA, FAAP, DABNM

Sunday, May 4, 2014

Practice Models in the New World of the G-Codes (Joint Sessions)

7:30am - 8:00am
Breakfast and Networking

8:00am - 8:45am
Telemedicine 2014
Gene Balzer, PhD

8:45am - 9:30am
What Developments are on the Horizon for the Field of IOM
Lawrence Wierzbowski, AuD, DABNM, FASNM

9:30am - 10:00am
Break

Evidence Based Practice

10:00am - 10:45am
Sufficient Evidence - ASNM Positions revisited
David Morledge, PhD, CCC-A, DABNM, FASNM

10:45am - 11:30am
Gaps in the Evidence or a Need for Better Methods for Evaluating IONM?
Robert Holdefer, PhD, DABNM

11:30am - 12:15pm
Panel-The Future of IOM
Robert Holdefer, PhD, DABNM
Jack Kartush, MD, FASNM
David Morledge, PhD, CCC-A, DABNM, FASNM
Francesco Sala, MD
Stanley Skinner, MD, FASNM
Gene Balzer, PhD  
The Balzer Group

Jeffrey Balzer, PhD, DABNM, FASNM  
Associate Professor of Neurological Surgery & Neuroscience  
Associate Director, Center for Clinical Neurphysiology

Bernard R. Bendak, MD  
Professor in Neurological Surgery and Neurology  
Northwestern University, Feinberg School of Medicine

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Assistant Professor, Dept Rehabilitation Medicine  
University of Washington

Michael Isley, PhD, DABNM, FASNM  
Director, IONM Department  
Orlando Regional Medical Center

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Consultant, Clinic Neurophysiology  
King Fahad National Guard Hospital - Saudi Arabia

Jack Kartush, MD, FASNM  
Professor Emeritus  
Michigan Ear Institute

Antoun Koht, MD  
Professor of Anesthesiology, Neurological Surgery and Neurology  
Northwestern University, Feinberg School of Medicine

Tyler R. Koski, MD  
Associate Professor in Neurological Surgery  
Northwestern University, Feinberg School of Medicine

James Leach, MD  
Associate Professor of Radiology  
Cincinnati Children’s Hospital

George Mashour, MD, Phd  
Bert N. LaDu Professor of Anesthesiology  
University of Michigan Medical School

John McAuliffe III, MD, MBA, DABNM, FAAP  
Director, Division of Neurobiology and IONM  
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Director, Intraoperative Monitoring  
Lahey Clinic

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Medical Director, Neurophysiology Department  
Abbott Northwestern Hospital

Christopher Veremakis, MD  
Medical Director  
Mercy Telehealth Services

Larry Wierzbowski, AuD, DABNM, FASNM  
IONM-P Audiologist  
Neurological Monitoring Services, Inc

Simone Wolter, Dr. rer. medic  
Charité - Medical School Berlin - Germany

Mario Zuccarello, MD  
Professor and the Frank H. Mayfield Chair for Neurological Surgery and Chairman of the Dept. of Neurosurgery  
University of Cincinnati
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Zhongtian Dai; Vernon L. Towle; David Brang; G. Kavya Minama Reddy; Weili Zheng
A Technique for Registering ECoG Electrodes

Anthony K. Sestokas, PhD, DABNM, FASNM; Bikash Bose, MD, FACS, FICS
Addition of tceMEPs to EMG Monitoring May Improve Neurologic Outcomes In Lumbosacral Spine Surgery

David E. Morledge, PhD, CCC-A, DABNM, FASNM
An Example of Severely Deficient IONM Services

Muhammad Tariq Imtiaz, MD; Mazhar Mobin, CNIM; Irfanullah Shah, MD; Eman Al Kathiry; Aneel Oad, M.Sc.; Ahmed Meraj Syed; Yasser Orz, MD,PhD; Mahmoud Al Yamany, MD, FRCSc.
Blister Like Aneyrysm of Internal Carotid Artery (ICA); Brain Tolerance to Ischemia and Role of Neurophysiology with Emphasis on Motor Evoked Potentials a Case Report

Andrew Scott, MSE, CNIM, DABNM
Changes in TcMEP and SSEP In Response To Blood Pressure Fluctuations During an Adolescent Vertebral Column Resection Surgery

Abby G. Herman, MD; Mary A. Herman, MD, PhD; Michael E. Mahla, MD; Christoph N. Seubert, MD, PhD, DABNM
Correct or Not Correct? This is the Question – in the Face of Change

James Zuccaro, DC, DABNM, CNIM
Practical Effects of Dexmedetomidine in Transcranial Electric Motor Evoked Potentials Measurements

David E. Morledge, PhD, CCC-A, DABNM, FASNM
Do States Follow ASHA’s Scope-of-Practice Statements Regarding IONM? A Preliminary Report

Jonathan Lubin, Bmus, CNIM
Dorsal Column Mapping For Intramedullary Ependymoma Resection

Faisal R. Jahangiri, MD, CNIM, DABNM, FASNM; Muhammad Sheryar, MBBS; Yaser Al Behairy, MD, FRCSC
Early Detection of Pedicle Screw related Spinal Cord Injury by Intraoperative Neurophysiological Monitoring (IONM)

Kent Rice, MS, R.EPT, CNIM, DABNM, FASNM
Effect of Stimulus Rate on Reflex Muscle Activity Evoked During Posterior Tibial Nerve SSEP Stimulation

Gexin Wang, PhD, CNIM, DABNM; David Jones, MD
EMG Detection of Nerve Root Irritation by Bone Fragments

Tod Sloan, MD, MBA, PhD
Fade-In or Fade-out? That is the Question

LanJun Guo, MD, M.Sc., DABNM
False negative of motor evoked potential or delayed deficit after spine surgery with pedicle subtraction osteotomy: a case study

G. Kavya Minima-Reddy; Zhongtian Dai; Weili Zheng; Haroon Papa; Rashmi Thimmapuram; Scott Hunter; David Brang;
Following Speech Through the Brain: Three Successive Parallel Networks

Li Huang, PhD, DABNM; Jeffrey Oppenheim, MD; Daniel Spitzer, MD; Alexander Jones, MD; Jeffrey Degen, MD
Intraoperative Localization of Central Sulcus for Large Frontotemporal Brain Tumor Resection
E-Posters

Andrew Scott, MSE, CNIM, DABNM; Arvydas Tamkus, MD, PhD, DABNM
Intraoperative Neurophysiological Monitoring During Spinal Cord Stimulator (SCS) Placement Surgery: Retrospective Study of 111 Patients

Faisal R. Jahangiri, MD, CNIM, DABNM, FASNM; Sami Al Eissa, MD; Anila F. Jahangiri, PhD; Amro Al-Habib, MD, FRCSC, MPH
IONM During Sacrectomy Procedures subtraction osteotomy: a case study

Gerald McNamee, R.EPT, CNIM, FACSNM
Loss of Lower Extremity Somatosensory Evoked Potentials During Lumbar Laminectomy and Instrumented Fusion: A Case Report

J. Richard Toleikis, PhD; Cristina Barboi, MD; Raquel Hernandez, MD; Jessica Walter, CNIM; Sandra C. Toleikis, MS
Normal Motor and Somatosensory Evoked Potentials in a Patient with Acute Intramedullary Hematoma

Tsui Fen Yang, MD
Pattern of Corticospinal Projections Defined by Intraoperative Brain Mapping During Respective Epilepsy Surgery in Children with Congenital Hemiparesis

Peter Pytel, MD; Vernon L. Towle, PhD; Zhongtian Dai, BA; David Frim, MD, PhD; Ben Roitberg, MD; Stuart Cogan, ScD; Doug McCreery, PhD; Martin Bak; Gislin Dagnelie, PhD; Frank Lane, PhD; Margaret Huyck, PhD; Philip R. Troyk, PhD
Postmortem Investigations of a Human Cortical Visual Prosthesis That was Implanted for 36 Years

John J McAuliffe MD, MBA, DABNM
Potentials in Children Under 6

Muhammad Tariq Imtiaz, MD; Mazhar Mobin, CNIM; Irfanullah Shah, MD; Eman Al Kathiry; Aneel Oad, M.Sc.; Ahmed Meraj Syed; Mahmoud Al Yamany, MD, FRCSc.
To quantify and compare the sensitivities of triggered EMG(TEMG) versus Intra-operative 3D Computed Tomography (CT) in identifying small pedicle breach in Spinal deformity surgeries

Tod Sloan, MD, MBA, PhD; J. Richard Toleikis, PhD; Sandra C. Toleikis, MS; Antoun Koht, MD
Trial to Trial Variability of Cortical SSEP and myogenic tcMEP during TIVA and 3% Desflurane Balanced Anesthesia

Kent Rice, MS, R.EPT, CNIM, DABNM, FASNM
Troubleshooting an SSEP-Evoked Muscle Reflex Coupled Through an Extension Cable

Tsui Fen Yang, MD
Use of Blink Synkinesis to Guide Microvascular Decompression for Hemifacial Spasm

Juan Pablo Cabrera Cousiño, MD
Usefulness of TcMEPs during Integrity Assessment of Thoracolumbar Joint Pedicle Screws

Denis Casaubon, MS, CNIM
Utility and Limitations of Spinal Cord Mapping Techniques

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Please stop by our booth - www.medtronic.com
mytaMed, Inc.

MytaMed, inc. was founded in 2006 to provide great products to the IONM community at great prices. Providing off the charts value is our number one goal each and every day, and we live by the following formula: Value = Quality / Price. To increase value one of the following has to happen: quality increases or price decreases. All of our neuro stimulation probes are very well made right here in the USA. We also run a lean operation, so you won’t find any mahogany desks or big expense accounts at mytaMed.

Please stop by our booth - info@mytamed.com / www.neurostimprobes.com / 877.444.6982

North American Spine Society

The North American Spine Society (NASS) is a multidisciplinary medical organization representing over 8,000 members dedicated to fostering the highest quality, evidence-based, ethical spine care by promoting education, research, and advocacy. With members from multiple specialties worldwide, NASS is your link to health care professionals invested in advancing spine care.

Please stop by our booth - www.spine.org / 866.960.6277

NeuroInvent

NeuroInvent Inc. is a California based company provides expertise in designing and manufacturing surgical devices utilized in neurophysiological monitoring on a worldwide basis. Its new product Subdermal Needle Electrodes with Safety Devices is patent approved, it is the only subdermal electrodes designed to prevent needle stick incidents in IOM. NeuroInvent is to create better designed high quality products best understand and satisfy the user needs.

Please stop by our booth - (917) 915-3568

Neurovision Medical Products

Neurovision™ Medical Products was founded in 1973 by a board certified head and neck surgeon, and electrical engineer. The company’s thorough understanding of electrophysiology, surgical practice and electronics have placed it in a unique position to provide innovative products serving several surgical specialties. Products include the Dragonfly™ and Cobra™ line of Xth cranial nerve monitoring electrodes. Neurovision™ Medical Products is headquartered in Ventura, California, USA.

Please stop by our booth - www.neurovisionmedical.com
PRN Partners

PRN Partners has an experienced team of board certified, fellowship-trained Neurologists who provide real-time interpretations, expert technical support for the Neuromonitorist, reporting, secure data archival, and billing services. PRN Partners has licensed Neurologists in 43 states and provides Professional services for multiple nationally recognized Technical IONM companies. Due to advancements in telemedicine, PRN Partners is able to monitor cases anywhere within the United States while maintaining connection and communication with the neuromonitorist and surgeon. The goal of PRN Partners is to raise the level of IONM standards by adding an additional level of support for the neuromonitorist and surgeon in the name of patient safety.

Please stop by our booth - www.intranerve.com

Safe Passage Neuromonitoring

Safe Passage Neuromonitoring is a professional Medical Services firm specialized in Pre, Peri and Intraoperative Monitoring (IOM) services. With headquarters in New York, NY, Safe Passage places a local approach to service, striving to maintain continuity of care by keeping familiar faces in the operating room. Through an experienced and highly certified team of IOM professionals, Safe Passage aims to provide the highest quality in IOM services with patient safety and surgeon satisfaction as the highest priorities.

Please stop by our booth - www.safepassagenm.com

Not-for-Profit Association

ABRET

ABRET seeks to encourage, establish and maintain the highest standards of clinical Electroencephalography, Evoked Potential Technology, and Neurophysiologic Intraoperative and Long Term monitoring, by offering credentialing exams to evaluate the skills and knowledge of technologists, and by supporting lab accreditation.

Please stop by our booth - www.abret.org
SOME SAY MANUFACTURING AFFORDABLE PRODUCTS IN AMERICA IS IMPOSSIBLE

WE SAY THAT HARD WORK & DEDICATION MAKE ANYTHING POSSIBLE

DISSPOSABLE ALLIGATOR CLIPS

Become familiar with our newest accessory: Disposable Alligator Clips. These clips are perfect for every day surgical instrumentation.

This 100% disposable and sterile product is intended for use in the recording of intraoperative neuromonitoring.

Learn more by visiting Rhythmlink.com/alligatorclips

DISSPOSABLE STIMULATING PROBES

Rhythmlink’s probe line offers you the reliability and quality you’ve come to expect from our products. Designed to stimulate nerves during surgery, you can select the exact tool you need for each specific procedure.

Learn more by visiting Rhythmlink.com/probes

STOP BY OUR BOOTH

Ask us how we can help serve you and your team today!
ASNM’s webinar series provides timely information of special interest to professionals working within the IONM industry and those seeking to learn more about this evolving area of practice. Webinar sessions are presented in “real time” or recorded on-demand.

All ASNM live webinars are applying for ACE and AMA PRA category 1 credit(s). Some recorded webinars are approved for (1) credit hour of continuing education for ACE Credits and AMA PRA Category 1 Credit(s).

For more information, please visit www.asnm.org/Webinars.
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Precision engineering with you at every stage

- Precision
- Partnership
- Research

Disposable surgical probes & electrodes for IONM

Visit the inomed booth for special introductory offers!

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