

2018 ASNMM Annual Meeting



Walt Disney World
Swan & Dolphin Resort
Lake Buena Vista, Florida

Optimizing IONM by Cross-collaboration

February 23 - 25, 2018

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 IONM 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.

Target Audience

Beginner to advanced IONM practitioners, which includes technologists, neurophysiologists, physicians, anesthesiologists, surgeons and individuals involved in the business aspect of intraoperative neuromonitoring.

Planning Committee

Faisal R. Jahangiri, MD, CNIM, DABNM, FASNM
Lawrence Wierzbowski, AuD, DABNM, FASNM
Carol Ingmanson, MBA - Executive Director, ASNM

2018 Fall Symposium

September 15 -16

DoubleTree by Hilton Nashville Downtown - Nashville, Tennessee



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.

Continuing Medical Education Credit (CME)



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 19.5 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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The American Society of Neurophysiological Monitoring is approved by the American Academy of Audiology to offer Academy CEUs for this activity. **The program is approved for a maximum 1.8 CEUs.** Academy approval of this continuing education activity is based on course content only and does not imply endorsement of course content, specific products, or clinical procedure, or adherence of the event to the Academy's Code of Ethics. Any views that are presented are those of the presenter/ CE Provider and not necessarily of the American Academy of Audiology.

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Thursday, February 22nd

8:00 AM - 5:00 PM

ASN Board of Directors Meeting

Swan 7-9

6:00 PM - 8:00 PM

Registration Open

Swan Lobby

6:00 PM - 8:00 PM

ABNM Board Prep (additional charge)

Jeffrey Balzer, PhD, FASN, DABNM

Macaw I

6:00 PM - 8:30 PM

CNIM Board Prep (additional charge)

James Watt, Jr., CNIM, R.EPT

Macaw II

Friday, February 23rd

6:45 AM - 7:30 AM

Breakfast with Exhibitors

Swan 5 & 6

Track I

Swan 7-10

Peripheral Nerve Monitoring

Moderators: Matthew Eccher, MD, MS

Zahid Abro, MD, CNIM

7:30 AM Anesthesia: Christoph Seubert, MD, PhD, DABNM

7:45 AM Surgeon: Lynda Jun-San Yang, MD, PhD

8:15 AM Technique: Leo Happel, PhD

8:45 AM E-poster: Kathryn Overzet, MS, CNIM

8:50 AM Panel Discussion

Track II

Mockingbird

Principals of IONM for Carotid Endarterectomies for the Beginners & Experts

Moderator: Clare Gale, CNIM, R.EEG/EPT, FASN, FASET

7:30 AM Anesthesia: Laura Hemmer, MD

7:45 AM Technique: Jeffrey Balzer, PhD, DABNM, FASN

8:45 AM Panel Discussion

9:15 AM - 10:00 AM

Break with Exhibitors

Swan 5 & 6

Endovascular Surgeries

Moderator: W. Bryan Wilent, PhD, DABNM

10:00 AM Anesthesia: Antoun Koht, MD

10:15 AM Technique: Joshua Mergos, MS, CNIM

10:45 AM Surgeon: Aaron S. Dumont, MD

11:15 AM E-poster: Tom Epplin-Zapf, MS, MA, CNIM

11:20 AM Panel Discussion

CPA Tumor

Moderator: Jeffrey R. Balzer, PhD, DABNM, FASN

10:00 AM Anesthesia: Laura Hemmer, MD

10:15 AM Cranial Nerves IONM: Laura Hemmer, MD

10:45 AM Technique: Lawrence Wierzbowski, AuD, DABNM, FASN

11:15 AM E-poster: M. Ángeles Sánchez-Roldán, MD

Lawrence Wierzbowski, AuD, DABNM, FASN

11:20 AM Panel Discussion

11:45 AM - 1:45 PM

Lunch on your own

Cervical Spine Surgeries

Moderator: Lawrence Wierzbowski, AuD, DABNM, FASN

1:45 PM Anesthesia: Christoph Seubert, MD, PhD, DABNM

2:00 PM Technique: Marat Avshalumov, PhD, DABNM, CNIM

2:30 PM Surgeon: Daniel Hoh, MD

3:00 PM E-poster: Maria Zuccaro, PhD, CNIM

3:05 PM Panel Discussion

Pediatric Neurosurgical Procedures

Moderator: Faisal R. Jahangiri, MD, CNIM, DABNM, FASN

1:45 PM Anesthesia: Veronica Busso, MD

2:00 PM Technique: Anthony Sestokas, PhD, DABNM, FASN

2:30 PM Surgeon: George Jallo, MD

3:00 PM E-poster: Yinchen Song, PhD

3:05 PM E-poster: Shuiping Dai, PhD, CNIM

3:10 PM Panel Discussion

Friday, February 23rd

3:30 PM - 4:00 PM
Break with Exhibitors
Swan 5 & 6

Cortical Mapping

Moderator: Christopher Pace, PhD, CNIM

4:00 PM Anesthesia: Nasser Tawfeeq, MD, FRCPC
4:15 PM Neurologist: Matthew Eccher, MD, MS
4:40 PM Technique: Faisal Riaz Jahangiri, MD, CNIM, DABNM, FASNMM
5:05 PM E-poster: James Zuccaro, DC, DABNM, CNIM
5:10 PM Panel Discussion

Deep Brain Stimulation

Moderator: Marat Avshalumov, PhD, DABNM, CNIM

4:00 PM Anesthesia: Antoun Koht, MD
4:15 PM Neurologist: Claire Henchcliffe, MD, DPhil
4:40 PM Technique: Jay Shils, PhD
5:05 PM Panel Discussion

5:30 PM - 7:00 PM
Networking Reception with Exhibitors
Swan 5 & 6

Saturday, February 24th

6:45 AM - 7:30 AM
Breakfast with Experts
Macaw 1 & 2

Neuromonitoring for Intracranial Aneurysms

Jeffrey Balzer, PhD, DABNM, FASNMM

Alternative Electrode Placement: Optimization of IONM Data

Clare Gale, CNIM, R.EEG/EPT, FASNMM, FASET

Neuromonitoring for Awake Surgeries

Jeff Gertsch, MD

Real-Time Monitoring for IONM

George R. "Trey" Lee, III, MD

Neuromonitoring for Interventional Procedures

Joshua Mergos, MS, CNIM

Technical Issues during Neuromonitoring

Brett Netherton, MS, CNIM, FASNMM, FASET

Pediatric Spine Surgeries

Moderator: Gene Balzer, PhD

Swan 7-10

7:30 AM Neurologist: Gloria Galloway, MD, MBA, FACNS
7:45 AM Technique: James Watt, Jr., CNIM, R.EPT
8:15 AM Surgeon: Jahangir Asghar, MD
8:45 AM E-poster: Chen-Ya Yang
8:50 AM E-poster: Maria Zuccaro, PhD, CNIM
8:55 AM Panel Discussion

Saturday, February 24th

9:15 AM - 10:00 AM

Break with Exhibitors

Swan 5 & 6

All subsequent presentations will take place in Swan 7 - 10

IONM - A Multidisciplinary Cross Collaboration Approach

Moderator: Joseph Moreira, MD

10:00 AM - Aatif M. Husain, MD

Presidential Speaker Session

Moderator: Joseph Moreira, MD

10:45 AM Presidential Speaker: Larry Badler, MBA, LSS-BB

11:15 AM Panel Discussion

Larry Badler, MBA, LSS-BB	Aatif Husain, MD	Faisal Riaz Jahangiri, MD, CNIM, DABNM, FASNM
Joseph Moreira, MD	Brett Netherton, MS, CNIM, FASNM, FASET	Lawrence Wierzbowski, AuD, DABNM, FASNM

12:00 PM - 2:00 PM

Business Luncheon

Swan 1 - 4

Minimally Invasive Procedures

Moderator: James Watt, Jr., CNIM, R.EPT

2:00 PM Anesthesia: Adam Schiavi, MD, PhD

2:30 PM Technique: James Zuccaro, DC, DABNM

3:00 PM Panel Discussion:

4:00 PM - 4:30 PM

Break with Exhibitors

Swan 5 & 6

Neuromonitoring During Spinal Surgeries - Case Studies

Moderator: Jay Shils, PhD

4:30 PM Technique: Justin Silverstein, DHSc, CNIM

5:00 PM Case Reports: Faisal Riaz Jahangiri, MD, CNIM, DABNM, FASNM
Justin Silverstein, DHSc, CNIM

5:30 PM E-poster: Faisal Riaz Jahangiri, MD, CNIM, DABNM, FASNM

5:35 PM: E-poster: Kathryn Overzet, MS, CNIM

5:40 PM Panel Discussion

Sunday, February 25th

6:45 AM - 7:30 AM

Breakfast

Swan Lobby

Optimizing IONM

Moderator: Faisal Riaz Jahangiri, MD, CNIM, DABNM, FASNM

7:30 AM - 8:00 AM

The Future of IOM. How Do We Prepare Ourselves for the Coming Ten Years

Antoun Koht, MD

8:00 AM - 8:30 AM

TCD for Beginners: Role of TCD in the Operating Room

Alexander Razumovsky, PhD, FAHA

8:30 AM - 9:00 AM

Professional Neurophysiologic Oversight

Joseph Moreira, MD

9:00 AM - 9:30 AM

Panel Discussion

Faisal Riaz Jahangiri, MD, CNIM, DABNM, FASNM

Antoun Koht, MD

Joseph Moreira, MD

Alex Razumovsky, PhD, FAHA

9:30 AM - 10:00 AM

Break

Swan 5 & 6

10:00 AM - 10:30 AM

Practice Management for IONM Professionals

Denise Bates, R.EPT, CNIM, MBA/HCM, DHAc

Shashivadan Kerai, CNIM

10:30 AM - 11:00 AM

IONM Stimulation

Brett Netherton, MS, CNIM, FASNM, FASET

11:00 AM - 11:30 AM

Radiation Exposure During Surgical Procedures: Who is Safe?

Patty Warf, RN, MS, CNIM, LSSGB, FASNM, FASET

Sunday, February 25th

11:30 AM - 12:00 PM

[Future and Planning for the IONM Research](#)

Robert Holdefer, PhD

12:00 PM - 1:00 PM

[Research Presentations](#)

Moderator: Lawrence Wierzbowski, AuD, DABNM, FASNM

12:00 PM Lanjun Guo, MD, MSc, DABNM

12:05 PM James Zuccaro, DC, DABNM

12:10 PM Peguy Luma, DDS, CNIM, SFA

12:15 PM: Maria Zuccaro, PhD, CNIM

12:20 PM: James Zuccaro, DC, DABNM

12:20 PM: Maria Zuccaro, PhD, CNIM

1:00 PM - 1:30 PM

[Award Presentations](#)

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has disclosed no relevant financial relationships

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Gloria Galloway, MD, MBA, FACNS

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Maureen Howard, Continuing Education Coordinator
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E-Posters

ABR Evaluation Under General Anesthesia For Young Children With Pervasive Developmental Disorders

Lawrence R. Wierzbowski, AuD, DABNM, FASNMM

Advances in Neurophysiological Intraoperative Monitoring During Selective Dorsal Rhizotomy

Yinchen Song, PhD; Stephanie A. Ferri, CNIM; Erik J. Kobylarz, MD, PhD;
George P. Thomas Jr., MD, PhD; David F. Bauer, MD

Bladder Manometry and Multiple Modalities of Intraoperative Neurophysiological Monitoring in a Tethered Cord Release Surgery

Shuiping Dai PhD, CNIM

Changes in Neuromonitoring Data Resulting from Spinal Cord Perfusion

Maria Zuccaro, PhD, CNIM; James Zuccaro, DC, DABNM

Contraindications for TceMEPs

Maria Zuccaro, PhD, CNIM; James Zuccaro, DC, DABNM

Effects of Pre-surgical Muscle Grade on Baseline TceMEPs

James Zuccaro DC, DABNM; Maria Zuccaro PhD, CNIM

Incidence Of IONM Data Changes Due To Positioning In 4577 Surgeries

Kathryn Overzet, MS, CNIM; Faisal R. Jahangiri, MD, CNIM, DABNM, FASNMM

IONM During Hip Arthroscopic Repair Surgeries

Kathryn Overzet, MS, CNIM; Mark Kazewych, MD; Faisal R. Jahangiri, MD, CNIM, DABNM, FASNMM

Motor Evoked Potential Recordings from Urethral Electrodes

Faisal R. Jahangiri, MD, CNIM, DABNM, FASNMM; Justin W. Silverstein, DHSC, CNIM; Zachariah M. George, MD; Sami Al Eissa, MD

Multimodality Monitoring: Prognostic Value of Neuromonitoring Alerts

Maria Zuccaro, PhD, CNIM; James Zuccaro, DC, DABNM

Perioperative Cerebrovascular Accidents: Frequent Multimodal Monitoring for Early Detection and Interpretation

Tom J. Epplin-Zapf, MS, MA, CNIM

Positioning Related SSEPs Changes

Peguy Luma, DDS, CNIM, SFA

Preoperative Motor Function Predicts Ability to Record Muscle Motor Evoked Potentials

Lanjun Guo; Yan Li; Ruquan Han; Adrain Gelb

Resection of Motor Strip Tumor with Neuromonitoring Mapping and Changes

James Zuccaro DC, DABNM; Maria Zuccaro PhD, CNIM

Somatosensory Evoked Potential Sensitivity

James Zuccaro, DC, DABNM; Maria Zuccaro, PhD, CNIM

E-Posters

Subcortical Stimulation Combining with Multiple Intraoperative Neurophysiological Modalities to Identify the Internal Capsule during Craniotomy of Tumor Resection (a case report)

Shuiping Dai PhD, CNIM

The Laryngeal Adductor Reflex Is A New Methodology For Monitoring Thyroid Surgeries That May Predict Long Term Outcome Of Vocal Fold Function

M. Ángeles Sánchez-Roldán, MD; Maria J. Téllez, MD; Catherine F. Sinclair, MD; Sedat Ulkatan, MD

Transcranial Electric Motor Evoked Potential Alert Criteria

Maria Zuccaro, PhD, CNIM; James Zuccaro, DC, DABNM

Using a Subdural Strip to Define Functional Sensory Nerves and the Most Inferior Functional Portion of the Conus Medullaris During Detethering Surgeries for Tethered Cord Syndrome

Chen-Ya Yang; Tsui-Fen Yang; Muh-Lii Liang; Hsin-Hung Chen²; Jan-Wei Chiu



ASNM CREDIT WEBINARS

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Intra-operative Neuromonitoring for Neuromodulation Procedures

Wednesday, March 14, 2018 • 7:00 PM Eastern

Steven M. Falowski, MD, FAANS

Director, Functional Neurosurgery, St. Lukes University Health Network

The use of IONM for neuromodulation is not only used as a modality for safety, but is also used as a confirmation of lead placement with spinal cord stimulators. It is this factor that is most important given the need to have a marker of proper lead position in an asleep patient. Newer protocols have also determined methods of lead placement with DRG stimulators. Newer research has examined the spinal and cortical responses of various programming waveforms, and has given an ability to have human spinal recording data.

Spinal Cord Stimulator Placement for Treatment of Neuropathic Pain

Date: TBA

Jay Shils, PhD, DABNM, FASNM, FACNS

Director, IONM and Associate Professor, Anesthesiology, Rush University Medical Center

Essentials of Intraoperative Auditory Brainstem Response Monitoring

Wednesday, August 22, 2018 • 7:00 PM Eastern

Lawrence Wierzbowski AuD, DABNM, FASNM

President & Owner, Avatrade, LLC

IONM Consulting and Education

Transcranial Electric Stimulation Motor Evoked Potential Monitoring Update

Date: TBA

David B. McDonald, MD, FRCP(C), ABCN

Section of Neurophysiology, Department of Neurosciences

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