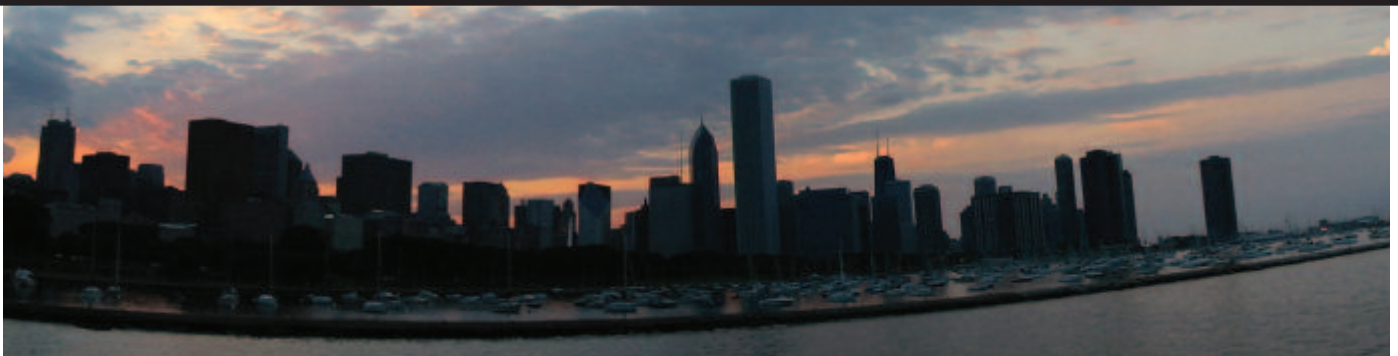


# 19th Annual Meeting American Society of Neurophysiological Monitoring



**May 2-4, 2008**  
**at the Hyatt Regency Hotel**  
**in Downtown Chicago**



# ASNM 19th Annual Meeting

## ASNM Board & Annual Meeting Planning Committee:

### **President:**

**Robert E. Minahan, MD**

Associate Professor, Department of Neurology  
Georgetown University Hospital  
Washington, DC

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Professor and Director EEG, Epilepsy and IOM  
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Professor of Neurology, Surgery  
Pediatrics and Psychiatry  
The University of Chicago  
Chicago, IL

### **Local Chairperson:**

**Rebecca Clark-Bash, MS, REEG/EPT, CNIM**

Knowledge Plus, Inc  
Lincolnshire, IL

## Accreditation & Credit Designation

### **ACCREDITATION**

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the American Society of Neurophysiological Monitoring and the University of Chicago Pritzker School of Medicine. The University of Chicago Pritzker School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

### **CREDIT DESIGNATION**

#### **CME Credit**

The University of Chicago Pritzker School of Medicine designates this educational activity for a maximum of 17.75 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

#### **ASET Continuing Education [ACE] Credit**

The American Society of Electroneurodiagnostic Technologists has granted ASET Continuing Education [ACE] credits for this program. Such crediting, however, should not be construed by program participants as an endorsement of any type of instruments or supplies mentioned or involved in the presentations.

#### **ASHA CEU**

Request for Approval Pending.

#### **Nurses and Other Allied Health Professionals**

Nurses and other Allied Health Care Professionals will be provided with a certificate of participation, which may be used to request credit in accordance with state boards, specialty societies, or other professional associations

# 2008 Annual Meeting Program

## Fellow Society Members:

The following is the Program Schedule for our Our 2008 Annual Meeting. It is shaping up to be one of our most informative and educational meetings. We hope you will join us.

J. Richard Toleikis, PhD Program Chairman

## Thurs., May 1st, 2008 ~ EXAM PREPARATION COURSE

- 7:30 AM-6:00 PM - - - - - **ASNM Board Meeting**  
(The Truffles Room - 2nd Floor, West Tower)
- 4:00 PM-6:00 PM - - - - - **Early Registration**  
(Crystal Ballroom Foyer - West Tower)
- 7:30 PM - - - - - **CNIM Preparation Session** ~ Rebecca Clark-Bash, MS, R.EEG/EP T., CNIM  
(The Truffles Room - 2nd floor, West Tower)

## Friday, May 2nd, 2008 ~ CLINICAL SESSION (Crystal B Ballroom)

- 7:45 AM - - - - - **WELCOME**
- 8:00-10:15 AM **Intracranial Surgery – Moderator: Anthony Sestokas, PhD**
- 8:00 AM - - - - - **“The Role of Neurophysiological Monitoring in Intracranial Surgery: A Surgeon’s Perspective”** ~ Lorenzo F. Munoz, MD
- 8:30 AM - - - - - **“Minimally Invasive Treatment of Cerebrovascular Disease”** ~ Demetrius Lopes, MD
- 9:00 AM - - - - - **“Anesthesia for Intracranial Procedures”** ~ Antoun Koht, MD
- 9:30 AM - - - - - **“Multimodality Intraoperative Neuromonitoring During Intracranial Neurosurgical Procedures: A Practical Guide for Protecting the Brain and Cranial Nerves”** ~ Jeffrey Balzer, PhD
- 10:15 AM - - - - - **BREAK**
- 10:45 AM - - - - - **DIGITIMER LECTURE** ~ Edelle Field-Fote, PhD, PT  
**TITLE: Speaking to the Nervous System: Using Stimulation to Improve and Assess Function after CNS Injury**  
Associate Professor, Department of Physical Therapy  
University of Miami School of Medicine, Miami, FL  
Director, Neuromotor Rehabilitation Research Laboratory  
Miami Project to Cure Paralysis
- 12:00 PM - - - - - **LUNCH (On Your Own)**
- 1:15-2:45 PM **Vascular Surgery – The Monitoring Perspective – Moderator Kent Rice, MS**
- 1:15 PM - - - - - **“Multimodality Neuromonitoring for Carotid Endarterectomy Surgery”** ~ Michael Isley, PhD
- 2:00 PM - - - - - **“TCD and Tissue Oximetry for Vascular Surgery”** ~ Harvey Edmonds, PhD
- 2:45 PM - - - - - **BREAK**
- 3:15-5:30 PM **Spinal Surgery – Moderator: David Morledge, PhD**
- 3:15 PM - - - - - **“The Role of neuromonitoring in Spinal Deformity Surgery”** ~ Christopher DeWald, MD
- 3:45 PM - - - - - **“Anesthesiology Considerations for Spinal Surgery”** ~ Tod Sloan, MD, MBA, PhD
- 4:15 PM - - - - - **“Spinal Cord Blood Supply: Emerging Concepts”** ~ Leo T. Happel, PhD
- 4:45 PM - - - - - **“Comprehensive Approach to Spinal Cord Monitoring”** ~ Charles D. Yingling, PhD
- 6:00 PM - - - - - **RECEPTION (Crystal C Ballroom)**

CONTINUED ON PAGE FOUR

# 2008 Annual Meeting Program

## Friday, May 2nd, 2008 ~ RESEARCH SESSION (Crystal B Ballroom)

8:00 AM	-----	<b>WELCOME</b>
		Feedback from ISIN ~ Vernon L. Towle, PhD
8:15-10:15 AM	-----	<b>Abstract Presentations – Moderator: Vernon L. Towle, PhD</b>
10:15 AM	-----	<b>BREAK</b>
10:45 AM	-----	<b>DIGITIMER LECTURE</b> ~ Edelle Field-Fote, PhD, PT
		<b>TITLE: Speaking to the Nervous System: Using Stimulation to Improve and Assess Function after CNS Injury</b>
		Associate Professor, Department of Physical Therapy University of Miami School of Medicine, Miami, FL Director, Neuromotor Rehabilitation Research Laboratory Miami Project to Cure Paralysis
12:00 PM	-----	<b>LUNCH (On Your Own)</b>
1:15-2:45 PM	-----	<b>Abstract Presentations – Moderator: Nguyen D. Kien, PhD</b>
2:45 PM	-----	<b>BREAK</b>
3:15-5:30 PM	-----	<b>Abstract Presentations – Moderator: Roger Noss, PhD</b>
6:00 PM	-----	<b>RECEPTION (Crystal C Ballroom)</b>

## Saturday, May 3rd, 2008 ~ GENERAL SESSION (Crystal AB Ballroom)

Moderator: Terry Patterson, PhD

8:00 AM	-----	<b>“The Operative Neurophysiology of Peripheral Nerve”</b> ~ Leo T. Happel, PhD
8:30-10:30 AM		<b>Deep Brain Stimulation (DBS) Surgery</b>
8:30 AM	----	<b>“Rationale for Electrophysiological Monitoring During Deep Brain Stimulation for Movement Disorders”</b> ~ Roy Bakay, MD, PhD
9:00 AM	----	<b>“Deep Brain Stimulation for Parkinson’s Disease: The Neurologist’s Perspective”</b> ~ Leo Verhagen, MD, PhD
9:30 AM	----	<b>“MER in the Operating Room”</b> ~ Jay Shils, PhD
10:15 AM	-----	<b>BREAK</b>
10:45 AM	----	<b>PRESIDENTIAL LECTURE</b> ~ Mahlon R. DeLong, MD
		<b>TITLE: Circuits of the Basal Ganglia: Physiology and Surgical Repair</b>
		Professor of Neurology Emory University School of Medicine Atlanta, GA
12:00 PM	-----	<b>LUNCH and Business Meeting</b>
		<b>State of the Society</b> ~ Robert Minahan, MD
1:15-2:30 PM		<b>Epilepsy Surgery – Moderator: Mark Stecker, MD, PhD</b>
1:15 PM	----	<b>“Intraoperative Monitoring for Epilepsy Surgery. The Surgeon’s Perspective”</b> ~ Richard Byrne, MD
1:45 PM	----	<b>“Electrophysiology in Epilepsy Surgery”</b> ~ Thomas Hoeppepner, PhD
2:30 PM	-----	<b>“Spinal Screw Stimulation Methodologies”</b> ~ Robert M. Holdefer, PhD
3:00 PM	-----	<b>“Monitoring for Cervical and Thoracic Pedicle Screws”</b> ~ Charles D. Yingling, PhD

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# 2008 Annual Meeting Program

**Saturday, May 3rd, 2008 ~ GENERAL SESSION *continued***

- 3:30 AM ----- **BREAK**  
4:00-5:30 PM ---- **"Intraoperative Monitoring – A Case Based Discussion"** ~ Don York, PhD  
6:00 PM ----- **NEW MEMBERS RECEPTION (Room 3471, East Tower)**

## **SPECIAL INTEREST GROUPS** ***Transcranial Doppler Ultrasound (TCD)***

All interested attendees are invited to participate in the *Transcranial Doppler Ultrasound (TCD) Special Interest Group* session to be held **Saturday, May 3** from **8:00 AM--noon** in the Truffles Room. Featured speakers Dean Andropoulos MD, Alex Razumovsky PhD and Harvey Edmonds PhD will lead a discussion on the current status and future directions of TCD surgical/critical care monitoring.

- 8:00-8:30 AM ---- **"Introduction to ASNMTCD Guidelines"** ~ Harvey Edmonds, PhD  
8:30-9:00 AM ---- **"TCD for Carotid Endarterectomy"** ~ Alex Razumovsky, PhD  
9:00-9:30 AM ---- **"TCD for Pediatric Cardiac Surgery"** ~ Dean Andropoulos, MD  
9:30-10:00 AM --- **"TCD for Adult Cardiac Surgery"** ~ Alex Razumovsky, PhD  
10:15-10:45 AM -- **BREAK** ~ in the General Session Area  
10:45-11:15 AM -- **"TCD Monitoring for Non-Vascular Surgery"** ~ Harvey Edmonds, PhD  
11:15-12:00 PM -- **"Group Consensus on Current Status & Future Directions for TCD Monitoring"**

## ***Deep Brain Stimulation (DBS) Targeting & Recording Systems***

- 1:15-1:45 PM ---- **"Starfix Microtargeting™ System"** ~ Allen Groleau, FHC®  
1:45-2:15 PM ---- **"NexFrame™ Stereotactic System"** ~ Keith Sootsman, Medtronic®  
2:15-2:30 PM ---- **"Ben-Gun Mapping, The Vanderbilt 7 yr. Experience"** ~ Chris Kao  
2:30-3:00 PM ---- **DISCUSSION** ~ Jurg Jaggi, Gale Hicks  
3:00-3:30 PM ---- **"Alpha-Lab™ Recording System"** ~ Majid Jaber, AlphaOmega®  
3:30-4:00 PM ---- **"StimPilot™ Recording System"** ~ Kirk Finnis, Keith Sootsman, Medtronic®  
4:00-4:30 PM ---- **"Guideline 4000™ Recording System"** ~ Allen Groleau, FHC®  
4:30-5:00 PM ---- **DISCUSSION** ~ Jurg Jaggi

## **Sunday, May 4th, 2008 ~ PRACTICE ISSUES** **(Crystal AB Ballroom)**

**Moderator: Bernard Cohen, PhD**

- 9:00 AM ----- **"Medical Practice Laws and IONM"** ~ Mark Stecker, MD, PhD  
10:00 AM ----- **"Stark Law Issues"** ~ Jennifer Breuer, JD  
11:00 AM ----- **"Billing and CPT Codes for Neuromonitoring"** ~ Marianna Hegedus  
12:00 PM ----- **CLOSING REMARKS**

# ASNM 19th Annual Meeting

## Abstract Titles: Original Research Presentations

- 8:15 **Russell M and Wiley D.** Modeling transcranial pathways.  
[mrussell@activediagnostics.com](mailto:mrussell@activediagnostics.com)
- 8:30 **Goble T, Cox R, Burdick M, Wakeman M, Bates G and Oppenheimer SM.** Comparison of flexor and extensor muscle responses to transcranial motor cortex stimulation (TcMEP) during spine surgery.  
[tgoble@sentientmedical.com](mailto:tgoble@sentientmedical.com)
- 8:45 **Hicks GE and Willnerd T.** Clinical validation for the sub-cortical generation of TcMEPs: Two case presentations.  
[g.hicks@neurodynamicsinc.org](mailto:g.hicks@neurodynamicsinc.org)
- 9:00 **Jahangiri F, Contreras J, Wimberly R, McClure S and Blakemore L.** Multimodality neurophysiological monitoring during Tibial/Fibular Osteotomies for preventing peripheral nerve injuries.  
[fjahangiri@impulsemonitoring.com](mailto:fjahangiri@impulsemonitoring.com)
- 9:15 **Razumovsky R, Laschinger J and Lowry D.** Stroke prevention in cardiac surgery for high-risk patients: Impact of multi-modality monitoring.  
[arazumovsky@sentientmedical.com](mailto:arazumovsky@sentientmedical.com)
- 9:30 **Fohrman EB, Dhanesh K, Gupta DK and Koht A.** Discrepancy between motor and sensory evoked potentials following surgical decompression of cervical epidural hematoma.  
[ed4man@yahoo.com](mailto:ed4man@yahoo.com)
- 9:45 **Szelenyi A, Hattingen E, Weidauer S and Seifert V.** Assessment of neurological and neuroradiological postoperative outcome in patients with changes in parameters of MEPs during intracerebral surgery.  
[a.szelenyi@em.uni-frankfurt.de](mailto:a.szelenyi@em.uni-frankfurt.de)
- 10:00 **Toleikis JR and Toleikis SC.** Using H-reflex responses to monitor spinal cord function: A comparison study.  
[jrtoleikis@sbcglobal.net](http://jrtoleikis@sbcglobal.net)
- 1:15 **Koht A, Gil KS, Fohrman EB, Bebawy JP, Cotton M, Mirkovic S, Gupta DK and Sufit R.** Alternative, additional, somatosensory evoked potentials (SEP) cortical recording leads.  
[a-koht@northwestern.edu](mailto:a-koht@northwestern.edu)
- 1:30 **Hicks GE and Bower C.** Reliability measures for two cortical SSEP montages.  
[g.hicks@neurodynamicsinc.org](mailto:g.hicks@neurodynamicsinc.org)
- 1:45 **Hicks GE.** Response identification strategies of experience readers for the somatosensory evoked potential (SSEP).  
[g.hicks@neurodynamicsinc.org](mailto:g.hicks@neurodynamicsinc.org)
- 2:00 **Skinner S.** Surface electrodes are not sufficient to detect neurotonic discharges: Clinical review of deltoid electromyographic (EMG) monitoring using multiple electrode types.  
[drskinnermd@yahoo.com](mailto:drskinnermd@yahoo.com)
- 2:15 **Wierzbowski LR, Wang, B, Kamp AM, David Allen D, Philip G. Perkins, PG.** Bone hemostasis materials with high electrical resistance: A potential source of inaccuracy during pedicle screw testing with stimulus-evoked EMG.  
[larryw@neuromoninc.com](mailto:larryw@neuromoninc.com)
- 2:30 **Donohue ML, Moquin RR, Murtagh-Schaffer C and Calancie B.** Multi-pulse stimulus-evoked EMG for detecting medial malplacement of thoracic pedicle screws.  
[donohuem@upstate.edu](mailto:donohuem@upstate.edu)
- 3:15 **Kao CC, Wells J, Cayce J, Jansen D, Mahadevan-Jansen A and Konrad P.** Optical stimulation of neural tissue in rats and its potential application in intraoperative monitoring (IOM).  
[ckao@sentientmedical.com](mailto:ckao@sentientmedical.com)
- 3:30 **Skinner S.** Thermal effects of electrosurgery on spinal motor systems: Initial observations in a porcine model.  
[drskinnermd@yahoo.com](mailto:drskinnermd@yahoo.com)
- 3:45 **Koht A, Gupta DK, Childers SJ, Cotton M and Bebawy JP.** SEP changes as a predictor of frontal orbital syndrome.  
[a-koht@northwestern.edu](mailto:a-koht@northwestern.edu)
- 4:00 **Holdefer RN, Cohen BA and Heffez DS.** Time course of brainstem auditory evoked potential latency changes during Chiari I malformation surgery.  
[rholdefer@yahoo.com](mailto:rholdefer@yahoo.com)
- 4:15 **Mochizuki K, Hicks G and Willnerd T.** Common carotid artery blood flow during anterior cervical spine surgery: A case study.  
[kmochiz@msn.com](mailto:kmochiz@msn.com)
- 4:30 **Parris B, Poon A, Castelle M and Towle VL.** Cortical gamma activity patterns are reliably associated with spontaneous daily activities.  
[bparris@uchicago.edu](mailto:bparris@uchicago.edu)
- 4:45 **Remple M, Pallavaram S, D'Haese P, Benoit B and Neimat J.** Organization of sensorimotor responses in the human subthalamic nucleus (STN).  
[mremple@sentientmedical.com](mailto:mremple@sentientmedical.com)
- 5:00 **Holdefer RN, Cohen BA and Greene KA.** Intra-Operative Multimodality recording within the subthalamic nucleus in Parkinson's disease.  
[rholdefer@yahoo.com](mailto:rholdefer@yahoo.com)
- 5:15 **Toleikis JR, Toleikis SC, Verhagen L, Barborica A, Sturaitis MK and Bakay RAE.** Analysis of single unit activity acquired during the application of deep brain stimulation.  
[jrtoleikis@sbcglobal.net](http://jrtoleikis@sbcglobal.net)

# ASNM 19th Annual Meeting Faculty

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**REGISTRATION FORM**  
**THE 19<sup>TH</sup> ANNUAL MEETING OF THE AMERICAN SOCIETY OF NEUROPHYSIOLOGICAL MONITORING**  
**MAY 2 - 4, 2008**

**Registration Fees**

	Early Bird Rate Before 4/1/08	After 4/1/08 and Onsite
ASNM Member	<input type="checkbox"/> \$345	<input type="checkbox"/> \$395
Non-Member	<input type="checkbox"/> \$445	<input type="checkbox"/> \$495
Student – with written documentation	<input type="checkbox"/> \$245	<input type="checkbox"/> \$295
One Day Only (Please indicate: <input type="checkbox"/> Friday <input type="checkbox"/> Saturday <input type="checkbox"/> Sunday)	<input type="checkbox"/> \$200	<input type="checkbox"/> \$200
Friday Reception (Single Day Registrant and All Guests)	<input type="checkbox"/> \$50	<input type="checkbox"/> \$50
CNIM Review Session	<input type="checkbox"/> \$25	<input type="checkbox"/> \$25

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Fax this form with payment to: 773/702-1736 (payment by credit card required)



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 950 E. 61st Street, Suite 101  
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Telephone registrations cannot be accepted. Registration questions? 773/702-1056



**The 19th Annual Meeting of the  
American Society of Neurophysiological Monitoring  
April 30-May 4, 2008**

**HOTEL REGISTRATION FORM**



151 E. Wacker Drive, Chicago, Il 60601

**Hotel Reservations are handled by MTA Travel, Judy Parisi**

**Fax this form to: 773-631-2764**

Hotel Related Questions: Please call Judy Parisi at 312-859-4487

**Hotel reservations must be booked by April 10th, 2008 – Reservations received after the cut-off date will be based on availability at the Hotel's prevailing rates.**

*Room rate for single is \$219.00 plus taxes; Double is \$229.00 plus taxes;  
Triple is \$254.00 plus taxes and Quadruple is \$279.00 plus taxes. Taxes currently are 15.4%*

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Day Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

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Number of Nights: \_\_\_\_\_ Number of Rooms: \_\_\_\_\_

Single: \_\_\_\_\_ Double: \_\_\_\_\_ Other: \_\_\_\_\_

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At check-out you will pay for your room charges.**

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***Please contact us if you require assistance or have a special request!***

The Board of Directors of the ASNMM  
is pleased to announce that three awards will be presented  
at the 19th Annual Meeting

🏆 ASNMM Award of Merit 🏆

🏆 Mary Stecker Award 🏆

🏆 Special Research Award 🏆

*19th Annual Meeting*  
*New Members Reception*

*We invite new members to  
a reception on Saturday,  
May 3rd at 6:00 pm.*

*You will have a chance to  
meet the Board members and  
fellow new members.*

