

American Society of Neurophysiological Monitoring



from **Coast to Coast** in 2007



We Invite You To:

Marriott Hotels ~ Burlington/Boston, MA

August 3 - August 4, 2007

&

Marriott San Francisco Fisherman's Wharf ~ San Francisco, CA

October 19 - October 20, 2007

ASNM Regional Symposia Committee

Rebecca J. Clark-Bash, R. EEG \EP T., CNIM, *Chairman*

Committee:

Jeffrey Balzer, Ph.D., DABNM, FASNM
Bernie Cohen, Ph.D., DABNM, FASNM
Clare Gale, B.S. R.EEG.T/CNIM CRTT
Leah Hanson, R.EEG.T/EP T., CNIM
Rob Minahan, M.D.
David Morledge, Ph.D., CCC-A, DABNM, FASNM

Leisha Osburn, M.S., R.EEG/EP.T, CNIM
Shawn Regan, B.S., CNIM
Jay Shils, Ph.D
Mark Stecker, M.D., Ph.D., DABNM, FASNM
Cathleen Zippay, R.EEG/EPT.,R.EDT.,CNIM

I. Vision & Mission:

The Society serves as the leading organization for the field of interventional neurophysiological assessment and monitoring.

Quality neurophysiological monitoring benefits patient outcomes. The Society:

- ⇒ Fosters the growth and stature of neurophysiological monitoring as a profession
- ⇒ Represents and advocates within the medical community on behalf of the members
- ⇒ Provides a forum for education and dissemination of knowledge in the field
- ⇒ Develops quality standards for practice and training
- ⇒ Promotes the highest standards of neurophysiological monitoring through research
- ⇒ Builds partnerships and coalitions with allied professionals

II. Intent & Overview

The function of the ASNM Regional Symposia program committee is to provide both a review of the basic neurophysiologic technology and methods in addition to a forum for presentation of cutting edge concepts in the field. On Saturday morning, participants will have the opportunity to attend a review session focused towards the CNIM® certification, which is administered by ABRET®*.

The conferences will begin Friday and will allow attendees to participate in didactic lectures and case presentations along with cutting edge topics. In addition, this program will address various aspects of the business and practice management aspects of neurophysiologic monitoring.

III. Objectives

After participating in this program, the participants should be able to:

- ⇒ Discuss the basic principles for conducting and interpreting intraoperative neurophysiologic monitoring (IONM)
- ⇒ Identify the basic neuroanatomy & neurophysiology relevant to IONM
- ⇒ Describe the principles & methods of advanced spinal cord monitoring to include Tce MEP, SEP, EMG, AEP, & EEG
- ⇒ Orient to principles of neurosurgical monitoring techniques & philosophies
- ⇒ Develop an understanding of the basic aspects related to the business of IOM
- ⇒ Develop an understanding of the elements for clinical decision making for IOM

IV. Who Should Attend

This symposium is designed for all monitorists, to include electrophysiologists from neurophysiologic backgrounds, nurses, electroneurodiagnostic technologists, audiologists and other practitioners involved with patients where neurophysiologic monitoring is used and who wish to expand their knowledge. This symposium is also designed for neurological, orthopedic, and ENT surgeons who utilize IOM as part of their routine practice or who are interested in learning more about IOM technique. The review course will be applicable for practitioners preparing for the CNIM® exam.

*The American Board of Registration of Electroencephalographic and Evoked Potential Technologists, Inc. (ABRET®) is not affiliated with ASNM. ABRET® does not approve or endorse any examination preparation materials, including those offered by ASNM. ABRET® has not assisted in the development and/or publications of these materials.

ASNM 2007 Fall Symposium

Burlington/Boston, MA

Program Chair: Jay L. Shils, PhD, DABNM, FASNM
Director, Intra-operative Monitoring
Department of Neurosurgery
The Lahey Clinic -- Burlington, Massachusetts

PROGRAM SCHEDULE for FRIDAY, AUGUST 3, 2007

- 7:00 am** **CONTINENTAL BREAKFAST**
- 7:45 am** **WELCOME & INTRODUCTION**
- 8:00 am** **QUALITY OF MONITORING?**
- **What is Good Monitoring?**
Mark M. Stecker, MD, PhD, DABNM, FASNM
 - **How do Surgeons Know They Have Good Monitoring?**
Jeffrey E. Arle, MD, PhD
 - **Technician Core Competency**
Chris Martin, CNIM
 - **Documentation and the Surgeon Interaction**
Rebecca Clark-Bash, R.EEG/EP T, CNIM
- 10:00 am** **SPINAL CORD SURGERY**
- **Spinal Cord Abnormalities and Tumors**
Subu Magge, MD
 - **Instrumentation**
Bernard Pfeifer, MD
 - **Surgical Pitfalls**
Subu Magge, MD
Bernard Pfeifer, MD
- 11:00 am** **BREAK**
- 11:15 am** **SPINAL CORD MONITORING**
- **When to Use What Modality**
Mark M. Stecker MD, PhD, DABNM, FASNM
 - **Pedicle Screw Monitoring**
TBA
 - **Surgical Pitfalls**
Subu Magge, MD
Bernard Pfeifer, MD
- 12:15 am** **LUNCH**
- 1:15 pm** **EEG**
- **Basics of EEG**
Mark M. Stecker MD, PhD, DABNM, FASNM
 - **Epilepsy Surgery**
G. Rees Cosgrove, MD, FRCS(C)
 - **EEG Abnormalities and EEG and Depth of Anesthesia**
Mirrella Simon, MD
- 2:45 pm** **BREAK**
- 3:00 pm** **PROBLEM BASED LEARNING SESSION**
- **Introduction**
Don York, PhD
 - **Break Into Groups**
- 3:15 pm**
- 5:00 pm** **BACK IN LARGE LECTURE HALL**
- 5:45 pm** **ADJOURN**

ASNM 2007 Fall Symposium

Burlington/Boston, MA

Program Chair: Jay L. Shils, PhD, DABNM, FASNM
Director, Intra-operative Monitoring
Department of Neurosurgery
The Lahey Clinic -- Burlington, Massachusetts

PROGRAM SCHEDULE for SATURDAY, AUGUST 4, 2007

- 7:00 am** **CONTINENTAL BREAKFAST**
- 7-8:00 am** **BREAKFAST WORKSHOP CNIM Board Prep Session** (*additional cost for this session*)
Rebecca Clark-Bash, R.EEG/EP T, CNIM
Clare Gale, B.S. R.EEG.T/CNIM CRTT
- 8:00 am** **MEP'S**
- **Methodology**
Aduari Bueno DeCamargo, MD, DABNM
 - **MEP Versus Direct Spinal Cord Monitoring**
Aduari Bueno DeCamargo, MD, DABNM
 - **Criteria for Alarm**
Aduari Bueno DeCamargo, MD, DABNM
- 9:00 am** **MOVEMENT DISORDERS SURGERY**
- **Surgical Procedure**
Jeffrey E. Arle,, MD, PhD
 - **Monitoring Methodology**
Jay L. Shils, PhD, DABNM, FASNM
 - **Programming**
Diana Apetauerova, MD
- 10:30 am** **BREAK**
- 10:45 am** **VASCULAR NEUROSURGERY**
- **Vascular Surgery and Anatomy**
Harold Welch, MD
 - **Interventional Procedures**
Carlos David, MD
 - **Monitoring Methodology**
Mark M. Stecker, MD, PhD, DABNM, FASNM
 - **TCD**
Mike Isley PhD, CNIM, DABNM, FASNM
- 12:45 pm** **LUNCH**
- 1:45 pm** **CRANIAL BASE SURGERY AND ENT**
- **Neurosurgical Approaches**
Carlos David, MD
 - **ENT Approaches**
Peter Catalano, MD
 - **Cranial Nerves and Monitoring**
Jeffrey Balzer, PhD, DABNM, FASNM
- 3:15 pm** **BREAK**
- 3:30 pm** **ANESTHESIA**
- **Anesthetics and Effects on Monitoring**
Vern Gugino, MD, PhD
 - **Positioning**
Vern Gugino, MD, PhD
 - **Vitals**
Vern Gugino, MD, PhD
- 5:00 pm** **ADJOURN**



See Registration form on NEXT PAGE

2007 FALL SYMPOSIUM

AMERICAN SOCIETY OF NEUROPHYSIOLOGICAL MONITORING

MARRIOTT HOTELS, BURLINGTON/BOSTON, MA

August 3-4, 2007

MARRIOTT HOTELS & RESORTS REGISTRATION DEADLINE: July 12th, 2007
 ASNMM REGISTRATION DEADLINE FOR REDUCED REGISTRATION: July 6th, 2007

Hotel Rate \$119.00

Hotel rooms for these sessions ALWAYS sell out.

Please make hotel reservations as soon as possible to insure room availability.

Name _____

Affiliation _____ Department _____

Work Address _____
 Street Address _____ City _____ State _____ Zip Code _____

Home Address _____
 Street Address _____ City _____ State _____ Zip Code _____

Please send the Confirmation/Primary Communications to: Home address Business address

Phone (____) _____ (____) _____ (____) _____
 Business (Daytime) Home Fax

Email Address _____

Please sign here to confirm registration and provide authorization for ASNMM to contact you via email.

Signature _____

REGISTRATION FEES:

Deadline Date	Members	Non-Members	Enter Amount
Until July 6 2007	\$425.00	\$525.00	
After July 6, 2007	\$525.00	\$625.00	
Breakfast Workshop CNIM Board Prep			
Until July 6, 2007	\$99.00	\$120.00	
After July 6, 2007	\$149.00	\$169.00	
		Payment*	

***Full Registration includes all events.**

Please make checks payable to: ASNMM, or charge credit card by completing this information:

Visa / MasterCard Card # _____/_____/_____/_____ Exp. Date _____

Amount \$ _____ Authorized Signature _____

Refund Policy: Registration fees are NONREFUNDABLE! Check the ASNMM website for updates (ASNMM.org)

For program information contact: ASNMM (800) 479-7979

Mail Registration to: ASNMM

333 E. Lancaster Ave. #327 • Wynnewood, PA 19096
 OR Fax: 1 800 479 7989

ASNM Regional Fall Focus Course

San Francisco, CA

Program Co-Chairs:

Charles Yingling, PhD, DABNM
Clinical Professor, OH & NS
Stanford School of Medicine

William H. Martin, PhD, FASNM
Professor of Otolaryngology/Head & Neck Surgery
Professor of Public Health and Preventive Medicine
Oregon Hearing Research Center NRCO4
Oregon Health & Science
Portland, Oregon

PROGRAM SCHEDULE for FRIDAY, OCTOBER 19, 2007

- 7:55 am WELCOME & INTRODUCTION**
- 8:00 am WHAT AM I DOING AND WHY DID I CALL YOU?**
The Neurosurgeons detailed look at surgical anatomy of the spine and how it relates to intraoperative monitoring.
Philip R. Weinstein, MD
- 9:00 am THE UCSF Tce MEP EXPERIENCE**
Logistics, hassles, practicalities, failures, strategies and STRONG suggestions.
Charles D. Yingling, PhD, DABNM
- 9:45 am PEDICLE SCREWS ABOVE THE EQUATOR**
Cervical and thoracic pedicle screw placement verification.
Charles D. Yingling, PhD DABNM
- 10:30 am BREAK**
- 11:00 am NEW DIRECTIONS IN SPINE MONITORING I**
Multiple channel Tce MEP recordings to evaluate selective root damage leading to radiculopathy.
Russ Lyon, MS, DABNM
- 11:30 am NEW DIRECTIONS IN SPINE MONITORING II**
Monitoring during percutaneous placement of pedicle screws. What do we know?
William Hal Martin, PhD, FASNM
- 12:00 pm LUNCH**
- 1:00 pm SNIP, SNIP. MONITORING RHIZOTOMIES**
How to do it and what you should look for . . .
Charles D. Yingling, PhD DABNM
- 2:00 pm WHAT? YOU WANT TO GET PAID FOR THIS?**
The mysteries of coding, billing and collection.
Marianna Haggadas
- 3:15 pm BREAK**
- 3:45 pm DON'T MOVE, DON'T WAKE UP AND DON'T REMEMBER.**
Guidelines to Anesthesia that won't wipe out your monitoring responses.
Tod Sloan, MD, PhD
- 4:45 pm Q & A / OPEN DISCUSSION**
- 5:00 pm ADJOURN**

ASNM Regional Fall Focus Course

San Francisco, CA

Program Co-Chairs:

Charles Yingling, PhD, DABNM
Clinical Professor, OH & NS
Stanford School of Medicine

William H. Martin, PhD, FASNM
Professor of Otolaryngology/Head & Neck Surgery
Professor of Public Health and Preventive Medicine
Oregon Hearing Research Center NRCO4
Oregon Health & Science
Portland, Oregon

PROGRAM SCHEDULE for SATURDAY, OCTOBER 20, 2007

7:55 am WELCOME/ANNOUNCEMENTS

7-8:00 am BREAKFAST WORKSHOP CNIM Board Prep Session (additional cost for this session)

Rebecca Clark-Bash, R.EEG/EP T, CNIM

Ricardo Bravo, R.EP T., CNIM

8:00 am WHAT AM I DOING AND WHY DID I CALL YOU? REVISITED.

The surgical rationale for approaches to the cerebello pontine angle and associated risks and benefits of each. Translabrynthine vs. middle cranial fossa vs. suboccipital vs. stereotactic radiosurgery.

Robert K. Jackler, MD

9:00 am USING THE EAR AS A WINDOW TO THE BRAIN:

Methods and madness of monitoring Auditory Evoked Potentials.

William Hal Martin, Ph.D., FASNM

9:45 am KEEP SMILING:

Methods and magic of monitoring cranial nerve electromyography.

William Hal Martin, Ph.D., FASNM

10:30 am BREAK

11:00 am COMPUTER PROCESSED EEG:

Detection of awareness under anesthesia.

Ira Rampil, MD, MS

12:00 pm LUNCH

1:00 pm FULL COURT PRESS:

Multi-modality monitoring during carotid endarterectomy surgery. Transcranial Doppler vs. Somatosensory EP vs. Processed EEG. Which one(s) should you use?

Mike Isley, PhD, CNIM, DABNM, FASNM

2:00 pm STAY OUT OF JAIL.

Legal issues related to intraoperative monitoring. Case reviews, law suits, and how to stay out of trouble.

Mike Isley, PhD, CNIM, DABNM, FASNM

3:00 pm BREAK

3:30 pm MONITORING DURING ANEURYSM REPAIR

Jeffrey Balzer, PhD, DABNM, FASNM

4:15 pm MOTOR STRIP AND ELOQUENT CORTEX MAPPING

Jeffrey Balzer, PhD, DABNM, FASNM

5:00 pm ADJOURN



See Registration form on NEXT PAGE

2007 FALL FOCUS COURSE

AMERICAN SOCIETY OF NEUROPHYSIOLOGICAL MONITORING

MARRIOTT SAN FRANCISCO FISHERMAN'S WHARF

October 19-20, 2007

MARRIOTT HOTELS & RESORTS REGISTRATION DEADLINE: September 14th, 2007
 ASNM REGISTRATION DEADLINE FOR REDUCED REGISTRATION: September 8th, 2007
 Hotel Rate \$229.00

Hotel rooms for these sessions ALWAYS sell out.
 Please make hotel reservations as soon as possible to insure room availability.

Name _____

Affiliation _____ Department _____

Work Address _____
 Street Address _____ City _____ State _____ Zip Code _____

Home Address _____
 Street Address _____ City _____ State _____ Zip Code _____

Please send the Confirmation/Primary Communications to: Home address Business address

Phone (_____) _____ (_____) _____ (_____) _____
 Business (Daytime) Home Fax

Email Address _____

Please sign here to confirm registration and provide authorization for ASNМ to contact you via email.

Signature _____

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Deadline Date	Members	Non-Members	Enter Amount
Until Sept. 27, 2007	\$425.00	\$525.00	
After Sept. 27, 2007	\$525.00	\$625.00	
Breakfast Workshop CNIM Board Prep			
Until Sept. 27, 2007	\$99.00	\$120.00	
After Sept. 27, 2007	\$149.00	\$169.00	
		Payment*	

***Full Registration includes all events.**

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Visa / MasterCard Card # _____ / _____ / _____ / _____ Exp. Date _____

Amount \$ _____ Authorized Signature _____

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For program information contact: ASNМ (800) 479-7979

Mail Registration to: ASNМ

333 E. Lancaster Ave. #327 • Wynnewood, PA 19096
 OR Fax: 1 800 479 7989

PROGRAM FACULTY FOR THE COAST TO COAST COURSES

Apetauerova, Diana - MD

Neurology - The Lahey Clinic
Burlington, Massachusetts
American Board of Psychiatry & Neurology 2003
Assistant Clinical Professor of Neurology
Tufts University School of Medicine
Visiting Assistant Clinical Professor
Charles University, Prague, Czech Republic

Bravo, Ricardo - R. EP T., CNIM

Children's Hospital of Los Angeles
Los Angeles, California

Arle, Jeffrey Edward - MD, PhD

Neurology & Neurovascular Institute
The Lahey Clinic
Burlington, Massachusetts
American Board of Neurology 2003
Assistant Clinical Professor of Neurosurgery
Tufts University School of Medicine

Balzer, Jeffrey R. - PhD, DABNM, FASNM

Associate Professor of Neurological Surgery
Associate Director, Clinical Services
University of Pittsburgh Medical Center
Presbyterian University Hospital
Pittsburgh, Pennsylvania

Catalano, Peter - MD

Otolaryngology/Head and Neck Surgery and Balance Center
The Lahey Clinic
Burlington, Massachusetts
American Board of Otolaryngology, 1990
Associate Professor of Otolaryngology
Boston University School of Medicine

Clark-Bash, Rebecca - R.EEG/EP T, CNIM

Knowledge Plus, Inc
Lincolnshire, IL

Cohen, Bernard - PhD, DABNM, FASNM,

Neurological Monitoring Associates, LLC
Milwaukee, WI

Cosgrove, G. Rees - MD, FRCS(C)

Neurosurgery
The Lahey Clinic
Burlington, Massachusetts
American Board of Neurological Surgery, 1989
Royal College of Surgeons (Canada), 1988
Professor of Neurosurgery
Tufts University School of Medicine

David, Carlos - MD

Neurosurgery; Neurovascular Institute and
Cerebrovascular Disease Center
The Lahey Clinic
Burlington, Massachusetts
American Board of Neurological Surgery, 2001
Assistant Clinical Professor of Neurosurgery,
Tufts University School of Medicine

DeCamargo, Aduari Bueno - MD, DABNM

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Gale, Clare B.S. R.EEG.T/CNIM CRTT

SpineMon, Inc
President

Gugino, Laverne - MD, PhD, FASNM

Brigham & Women's Hospital
Boston, Massachusetts

Heggedus, Marianna - MD,

Senior Revenue Cycle Analyst
University of Pittsburgh Physician Services Division
University of Pittsburgh Medical Center

Isley, Michael R. - PhD, DABNM, FASNM

Director, Intraoperative Neuromonitoring Department
Orlando Regional Medical Center and
Arnold Palmer Hospital for Children
Orlando, Florida

Jackler, Robert K. - MD

Professor and Chairman, Otolaryngology
Head & Neck Surgery
Stanford School of Medicine

Lyon, Russ - MS DABNM

Neuromonitoring Specialist
University of California, San Francisco

Magge, Subu N. - MD

Neurology & Spine Center
The Lahey Clinic
Burlington, Massachusetts
American Board of Neurology 2004
Assistant Professor of Neurosurgery
Tufts University School of Medicine

Martin, Christopher - CNIM

Impulse Monitoring

Martin, William H. - PhD, FASNM

Professor of Otolaryngology/Head & Neck Surgery
Professor of Public Health and Preventive Medicine
Oregon Hearing Research Center NR04
Oregon Health & Science
Portland, Oregon

Pfeifer, Bernard - MD

Orthopedic Surgery & Spine Center
The Lahey Clinic
Burlington, Massachusetts
American Board of Orthopedic Surgery, 1981
Clinical Assistant Professor,
Boston University School of Medicine Lecturer
Tufts University School of Medicine

Rampil, Ira - MS, MD

Professor, Anesthesiology and Neurosurgery
Stony Brook University Hospital
Health Sciences Center
Stony Brook, New York

Sloan, Tod B. - MD, MBA, PhD, FASNM

Professor and Associate Chair for Development
Department of Anesthesiology
University of Colorado at Denver and Health Science Center
Denver, Colorado

Shils, Jay L. - PhD, DABNM, FASNM

Director, Intra-operative Monitoring
Department of Neurosurgery
The Lahey Clinic
Burlington, Massachusetts

Simon Mirella - MD,

Instructor in Neurology
Massachusetts General Hospital
Boston, Massachusetts

Stecker, Mark - MD, PhD, FASNM, DABNM

Geisinger Medical Center
Danville, PA

Weinstein, Philip R. - MD

Professor Emeritus,
Neurological Surgery
University of California, San Francisco

Welch, Harold - MD

Heart & Vascular Center; Vascular Surgery and
Neurovascular Institute
The Lahey Clinic
Burlington, Massachusetts
American Board of Surgery, 1990, 1998
Certificate of Added Qualifications in General Vascular
Surgery, 1994, 2001
Assistant Professor of Surgery
Tufts University School of Medicine

Yingling, Charles D. - PhD, DABNM

Clinical Professor, OH & NS
Stanford School of Medicine

York, Don - PhD

St. John's Mercy Medical Center
St. Louis, Missouri

CONTINUING EDUCATION

ASHA



St. John's Mercy Medical Center is approved by the Continuing Education Board of the American Speech-Language-Hearing Association (ASHA) to offer continuing education activities in speech-language pathology & audiology. This program is offered for 1.5 CEUs (Advanced Level-Audiology Area). ASHA CE Provider approval does not imply endorsement of course content, specific products, or clinical procedures.

ASHA CE Provider:

St. John's Mercy Medical Center, St. Louis, MO

ASET



The American Society of Electroneurodiagnostic Technologists has granted ASET Continuing Education (ACE) credits for this program. Such crediting, however, should not be constructed by program participants as an endorsement of any type of instrument or supplies mentioned or involved in these presentations.

Excursions



Boston Red Sox vs Baltimore
August 2nd (Thursday), 2007
at Fenway



Napa Valley Wine Train
Sunday, October 21st, 2007



Teatro Zinzanni
"Love, Chaos, & Dinner"
Friday, October 19th, 2007

For further information on these excursions OR to book tickets please contact:
REBECCA CLARK-BASH:
815.341.0791 OR opcal@aol.com



ASNMM

AMERICAN SOCIETY OF NEUROPHYSIOLOGICAL MONITORING

MEMBERSHIP APPLICATION

Last Name _____ First _____ MI _____

Professional or Academic Designation (M.D., CNIM, CCC-A, etc.) _____

Title _____

Institution _____

Department _____

Address _____

City _____ State _____ Zip _____

Province _____ Country _____

~ Please use my home address for correspondence. ~

Home address (optional) _____

Business Phone _____ Ext. _____

Fax _____

E Mail _____

Specialty _____ Years of Monitoring Experience _____

★ Full Membership ★

Please exclude me from commercial distributions of the Membership Directory,

Please exclude me from the Website Membership Directory.

I have enclosed a check for \$ _____ (US Dollars)

I am paying by _____ Visa _____ MasterCard

Card number. _____ / _____ / _____ / _____ Expiration _____

Signature: _____

★ Instructions ★

All applicants please submit **two copies of your Curriculum Vitae or Resume** and
the first year's membership fee of \$100.00 for

Full membership to:

ASNMM

333 E Lancaster Ave. #327 • Wynnewood, PA 19096

(800) 479-7979

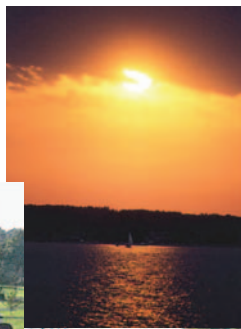
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Enjoy Member Rates!
Membership Application in
this Mailer!

Come and Join us on our
Coast to Coast
Fall 2007 Education Courses
and see the area sights . . .



August 3-4th, 2007
Burlington, MA

October 19-20, 2007
San Francisco, CA