2020

ANNUAL MEETING & COURSES

APRIL 17 – 19 * FRIDAY – SUNDAY
NEWPORT BEACH MARRIOTT RESORT & SPA
NEWPORT BEACH   CALIFORNIA
KEY NOTE SPEAKERS

Jeffrey Balzer, D. ABNM, PhD
Associate Professor
Director, Clinical Services, Center for Clinical Neurophysiology
Director, Cerebral Blood Flow Laboratory
University of Pittsburgh Medical Center
Pittsburgh, PA

Marc R Nuwer, MD PhD
Professor and Vice Chair, Department of Neurology
David Geffen UCLA School of Medicine
Department Head, Clinical Neurophysiology
Ronald Reagan UCLA Medical Center
Los Angeles, CA

Richard Vogel, Ph D, D. ABNM
ASNM President
Philadelphia, PA

Mirela Simon, MD
Department of Neurology
Harvard Medical School
Boston, MA
The CALIFORNIA NEURODIAGNOSTIC SOCIETY – A CHAPTER OF ASET Annual Meeting & Courses provides comprehensive updates for the diagnostic & research practitioners in the specialties of EEG, Epilepsy, Evoked Potentials, Intraoperative Monitoring, Ambulatory EEG & Bedside Continuous EEG Monitoring.

Experts from Neurology & Neurodiagnostic will present on the state of the science, research applications and advanced updates.

In addition, board preparation courses addressing recent changes in the exam, critical information for board prep candidates and invaluable study materials shall be provided.

Professionals practicing in the following specialties:
- EEG
- Evoked Potentials
- Intraoperative Neurophysiologic Monitoring
- Ambulatory EEG
- Neurophysiologists
- Neurosurgeons
- Neurologists
- Orthopedists
- ENT Surgeons
- Anesthesiologists
- Nurses
- Audiologists

At the completion of this symposium, participants should be able to:
- Discuss the comprehensive principles for conducting and interpreting electrophysiologic studies in EEG, cEEG, EP, & IONM.
- Identify relevant neuroanatomy and neurophysiology
- Describe the principles and methods of recording and monitoring
- Develop an understanding of the elements for clinical decision making
- Develop an understanding of the basic aspects related to the business of service delivery

Registration is available online at:
https://www.signmeup.com/132069
FRIDAY APRIL 17, 2020  * COURSE DIRECTOR:
CHARU ELUVATHINGAL, R. EEG\EP T, CNIM, CLTM
MANAGER CLINICAL OPERATIONS EEG/EMU/EMG – UNIV OF CINCINNATI MEDICAL CENTER

8:55  Welcome & Introductions
Charu Eluvathingal, R. EEG\EP T., CNIM, CLTM
University of Cincinnati Medical Center, Cincinnati Ohio

9:00  Pediatric EEG: Developmental Milestones, Pediatric Pattern Recognition & Unique Aspects of Pediatric Disease & Disorders
Kathie O’Donovan, R. EEG T, CLTM
Consultant, Houston, Texas

10:00 Comprehensive Aspects of the Normal EEG: Background Rhythm, Activation Procedures, Benign Variants, Troubleshooting (Part One)
Charu Eluvathingal, R. EEG\EP T., CNIM, CLTM
University of Cincinnati Medical Center, Cincinnati Ohio

10:30 Break with Exhibitors

11:00 Comprehensive Aspects of the Normal EEG: Background Rhythm, Activation Procedures, Benign Variants, Troubleshooting (Part Two)
Charu Eluvathingal, R. EEG\EP T., CNIM, CLTM
University of Cincinnati Medical Center, Cincinnati Ohio

11:45 Licensure Updates (Joint Session)
Jennifer Montgomery
ASET, Government Advocacy, Kansas City, MO

12:15 Lunch (on your own)

1:30 The Abnormal EEG: From Slowing to Spikes
Amy Caccamo, R EEG\EP T, CLTM
Medical City Dallas, Dallas, TX

2:00 Break with Exhibitors

2:30 Instrumentation: Filters, Digital Conversion & Math
Rebecca Clark-Bash, R. EEG\EP T, CNIM, CLTM, F. ASET, FASNM
Knowledge Plus, Inc., President, Wesley Chapel, Florida

3:30 EKG For the Neurodiagnostic Technologist
Cathy Boldery, CCT, R EEG\EP T, CLTM, RPSGT, CNIM, F ASET
NeurodiagnosticTx, LLC, Tyler, TX

4:00 Neonatal EEG: Epoch of Change, Method of Collection & Developmental Milestones
Kathie O’Donovan, R. EEG T, CLTM
Consultant, Houston, Texas

5:00 Adjourn

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8:55 Welcome & Introductions
J Brigham Jones, R. EEG/EP T, CNCT CNIM
Concorde Career College, San Bernardino, CA

9:00 Comprehensive Complex Spine Monitoring: SEP & EMG in The Operating Room: Method, Data Analysis, Troubleshooting & Anesthesia
Clare Gale, BS, R EEG/EP T, CNIM, F.ASNM, F.ASET
CEO/Owner, eWaveFORM, LLC
Granville, Ohio

10:30 Break with Exhibitors

11:00 Tce MEP in the Operating Room: Method, Data Analysis, Troubleshooting & Anesthesia
James Watt, BS, R EP T, CNIM
Surgical Neurophysiologist
Fayetteville, Arkansas

11:45 Licensure Updates: ASET (Joint Session)
Jennifer Montgomery
ASET, Government Advocacy, Kansas City, MO

12:15 Lunch (on your own)

1:45 Brainstem Auditory Evoked Potentials in The Operating Room: Method, Data Analysis, Troubleshooting & Anesthesia
Rebecca Clark-Bash, R. EEG/EP T, CNIM, CLTM, F.ASET, FASNM
Knowledge Plus, Inc, President-Wesley Chapel, Florida

2:30 Break with Exhibitors

3:00 Intraoperative EEG: Collateral Flow, Cerebral Aneurysm, Aortic Aneurysm & Cardiac Surgeries
Cindy Francke, R. EEG/EP T, F.WSET, CNIM
Cadwell Laboratories, Applications Specialist, Seattle, WA

4:00 Pharmacologic Influence on Electroneurodiagnostic Intraoperative Medicine: Anesthesia in the Operating Room
Eric Heyer, MD
Anesthesiologist, Restore Orthopedics, Orange, CA

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# Comprehensive Intraoperative Neurophysiologic Monitoring

**Course Director:**

**Christine Hanna, BS, CNIM**

California Territory Manager – National Neuromonitoring Services, Orange County, California

<table>
<thead>
<tr>
<th>Saturday April 18, 2020</th>
<th>Sunday April 19, 2020</th>
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| **9:00** Advanced Motor Evoked Potentials: Comprehensive Method, Stimulation Site Duplication & Maximization, "Priming" Theory & Application, Propofol Isn’t Propofol Isn’t Propofol, Complex Alarm Criteria Clarification | **9:00** The Multimodality Neurophysiologic Mapping Technique in Supratentorial Surgery – An Evolving Journey  
- Mirela Simon, MD  
  Harvard Med School  
  Boston, MA |
| **Jeffrey Balzer, D.ABNM, PhD**  
  UPMC, Pittsburgh, PA | |
| **10:30** Break with Exhibitors | **10:30** Break with Exhibitors |
| **11:00** Billing & CPT Coding in IONM: Controversies in 95940 As a Technical Code, Fraud Potential & Billing Red Flags | **11:00** Challenges in Neuromonitoring: Physician Oversight Compliance & Advocacy  
- Richard Vogel, PhD, D.ABNM  
  ASNM Pres Philadelphia, PA |
| **Marc Nuwer, MD**  
  UCLA, LA, CA | |
| **12:00** Lunch (On Your Own) | **12:00** Lunch (On Your Own) |
| **1:30** Advanced Spinal Cord Tumor Monitoring: Method, Data Analysis & Common Pitfalls | **1:30** Cardiovascular Anatomy & Interactive Case Studies  
- Jeffrey Balzer, D.ABNM, PhD  
  UPMC, Pittsburgh, PA |
| **Richard Vogel, PhD, D.ABNM**  
  ASNM President, Philadelphia, PA | |
| **3:15** Break with Exhibitors | **2:30** Break |
| **3:00** Motor & Sensory Cortice Mapping: Traditional & Direct Cortical Method | **2:45** Contemporaneous Evaluation of Intraoperative Potentials for Patient Positioning: A Review of Four Cases.  
- Justin Silverstein,  
  DHSc, CNIM, R. EP T, R. NCST, CNCT  
  CEO/Owner-Neuro Protective Solutions  
  New York, NY |
| **Justin Silverstein,**  
  DHSc, CNIM, R. EP T, R. NCST, CNCT  
  CEO/Owner-Neuro Protective Solutions  
  New York, NY | |
| **4:00** Surgical Solutions: Pre-existing Conditions, Preferred Approach & Monitoring Concerns | **3:45** Proactive IOM During Thyroid, Parotid & Robotic Prostatectomy Surgeries  
- Jon Schiff, CNIM  
  President, Synaptic Resources, Inc  
  Austin, Texas |
| **Eric Chang, M.D.**  
  Restore Orthopedics, Orange, CA | |

Sign Up NOW!

[https://www.signmeup.com/132069](https://www.signmeup.com/132069)
**EEG, EPILEPSY, ICU EEG & AMBULATORY**

**COURSE DIRECTOR:**

**SABRINA GALLOWAY, BS, R EEG\EP T, CNIM, CLTM, F.ASET**

**DIR NEURODIAGNOSTIC SERVICES-NEUROMONITORING TECHNOLOGIES, GLENWOOD, MD**

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<tr>
<td><strong>9:00</strong></td>
<td>Long Term EEG: No Monitoring Vs Remote Monitoring: Is it Reimbursed? Is it Ethical?</td>
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<td>Sabrina Galloway, BS, R EEG\EP T, CNIM, CLTM, F.ASET Neurodiagnostic Technologies, Inc Glenwood, MD</td>
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<tr>
<td><strong>9:45</strong></td>
<td>CPT Coding 2020: Updates &amp; Implications on Staffing, Ambulatory EEG &amp; Long Term Studies</td>
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<td>Marc Nuwer, MD Univ of California Los Angeles, California</td>
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<td><strong>10:45</strong></td>
<td>Break with Exhibitors</td>
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<td><strong>11:15</strong></td>
<td>Pre-Surgical Evaluation for Epilepsy Surgery</td>
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<td>Inna Keselman, MD Univ of California Los Angeles, CA</td>
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<td><strong>3:00</strong></td>
<td>Break with Exhibitors</td>
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<tr>
<td><strong>3:30</strong></td>
<td>VNS, RNS &amp; DBS for Epilepsy Patients:</td>
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<td>Inna Keselman, MD Univ of CLA, Los Angeles, CA</td>
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<tr>
<td><strong>4:30</strong></td>
<td>Over Reading EEG: A Practical Review Using Case Examples</td>
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<td></td>
<td>Amy Caccamo, R EEG\EP T Medical City Dallas, Dallas TX</td>
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**Sign Up NOW!**

[https://www.signmeup.com/132069](https://www.signmeup.com/132069)
**BOARD PREP WORKSHOPS: BOOT CAMP:**

**SATURDAY & SUNDAY MORNING WORKSHOPS ~ 7:30 AM**

<table>
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<tr>
<th>SATURDAY MORNING WORKSHOPS: Concurrent Focus Sessions</th>
<th>Faculty</th>
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</thead>
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<tr>
<td>7:30 - 8:30 am</td>
<td>CLTM BOARD PREP</td>
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<tr>
<td>7:30 – 8:30 am</td>
<td>R. EEG T.* BOARD PREP</td>
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</tbody>
</table>

**Rebecca Clark-Bash**
R. EEG\EP T., CNIM, CLTM, F.ASNM, F.ASET

<table>
<thead>
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<th>SUNDAY MORNING WORKSHOPS ~ 7:00 AM</th>
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<tr>
<td>7:30-8:30 am</td>
<td>CNIM* BOARD PREP BOOT CAMP</td>
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<tr>
<td>7:30-8:30 am</td>
<td>R. EP T.* BOARD PREP BOOT CAMP</td>
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</tbody>
</table>

**Rebecca Clark-Bash,**
R. EEG\EP T., CNIM, CLTM, F.ASNM, F.ASET

<table>
<thead>
<tr>
<th>MEASUREMENT ASSESSMENT WORKSHOP: Concurrent Focus Sessions</th>
<th>Faculty</th>
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<tbody>
<tr>
<td>3 Hours Time TBA Will Be Held Before the Actual Day of the Exam</td>
<td>MEASUREMENT ASSESSMENT FOR R EEG T MEASURING EXAM</td>
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**TBA**

****EXAM PREP WORKSHOP ****

*Offered by CNS-NOT ABRET
DATE TO BE ANNOUNCED
AWAITING ABRET TEST DATE
# CALIFORNIA NEURODIAGNOSTIC SOCIETY

## A CHAPTER OF ASET

### Annual Meeting & Courses

**Meeting Location:**

Newport Beach Marriott Resort & Spa  
CALIFORNIA NEURODIAGNOSTIC SOCIETY Rate: $179.00  
900 Newport Center Drive, Newport Beach, California  
Phone: 800.762.7770  
*Cut-Off Date for CALIFORNIA CHAPTER OF ASET Rate: Friday April 3rd, 2020*

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**ASET CEU Credits**

ASET – The Neurodiagnostic Society has granted ASET-CEUs 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 these presentations.

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**Registration**

Registration fee includes tuition, daily continental breakfast & break refreshments.

<table>
<thead>
<tr>
<th>Registration Fees</th>
<th>Course</th>
<th>CALIFORNIA CHAPTER OF ASET Before 4/1</th>
<th>Non-Member</th>
<th>After 4/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTRAOPERATIVE NEUROPHYSIOLOGIC MONITORING COURSE &amp; cEEG BEDSIDE MONITORING COURSE</td>
<td>Three Day Course</td>
<td>$525</td>
<td>$625</td>
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<tr>
<td></td>
<td>Two Day Course</td>
<td>$425</td>
<td>$525</td>
<td>+ $50</td>
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<tr>
<td>IOM FUNDAMENTALS OR EEG FUNDAMENTALS</td>
<td>FRIDAY ONLY</td>
<td>$195</td>
<td>$295</td>
<td>+ $50</td>
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<tr>
<td>STUDENTS*</td>
<td></td>
<td>$175</td>
<td>$275</td>
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<tr>
<td>DIGITAL HANDOUTS</td>
<td></td>
<td>$150 /per course</td>
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<tr>
<td>SATURDAY &amp; SUNDAY WORKSHOPS /each</td>
<td></td>
<td>$99</td>
<td>$120</td>
<td>+ $20</td>
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</table>
CALIFORNIA ELECTRONEURODIAGNOSTIC SOCIETY
A CHAPTER OF ASET

* SCHOLARSHIP *
JuliaTriano.Scholarship@yahoo.com

Applications must submit application to the above e-mail no later midnight on March 20th, 2020. Recipients and applicants shall be notified by March 27th, 2020.

* THINGS TO DO - ORANGE COUNTY*

**Catalina Island via Ferry**
Great day trip!
Take the Ferry ($35 /each way)
Zip Line* Kayak * Hike

**Temucula Wine Country**
Just an hour away
Fantastic Wineries
Great Foodie Destination

**Balboa Island**
Just a short Uber ride to great seafood and shopping
CALIFORNIA ELECTRONEURODIAGNOSTIC SOCIETY
A CHAPTER OF ASET
Registration Online: https://www.signmeup.com/132069

Exhibitor Opportunities - Contact Us:
Interesting in Exhibiting?
CALIFORNIA NEURODIAGNOSTIC SOCIETY – A CHAPTER OF ASET
Vendor Chair: Roberta Esfandiarfard
Phone: (530) 409-9607
E-mail: robertajesfandiarfard@yahoo.com
Register to Exhibit Now: http://www.signmeup.com/132067

Contact Us:
Questions? Contact Us:
https://www.californianeurodiagnosticsociety.org/

Wine & Cheese Reception
Saturday April 18, 2020
5:30 – 6:30 pm
Surgical Monitoring
Coding & Billing
Board Prep
EEG, Bedside, LTM
Ambulatory EEG