



2020 Annual MEG Course
Tuesday, February 4 and Wednesday, February 5, 2020
Roosevelt New Orleans • New Orleans, LA, USA

TUESDAY, FEBRUARY 4

1:00 – 5:00pm **Part I: Introduction to Clinical MEG**

Co-Directors: Heidi Kirsch, MS, MD & Andrew Zillgitt, DO

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| 1:00pm | Introduction
<i>Michael Funke, MD, PhD</i> |
| 1:05pm | Welcome
<i>Heidi Kirsch, MS, MD & Andrew Zillgitt, DO</i> |
| 1:15pm | Neurophysiological Basis and Recording Fundamentals of MEG and EEG
<i>Richard C. Burgess, MD, PhD</i> |
| 2:05pm | Best Practices in Clinical MEG – Patient Preparation and Data Acquisition
<i>John Mosher, PhD</i> |
| 2:50pm | Break |
| 3:00pm | The Logistics of MEG Operation and Practicing According to the ACMEGS Clinical Practice Guidelines (CPG)
<i>Anto Bagic, MD, PhD</i> |
| 3:50pm | Interactive Q&A with Speakers |
| 4:30pm | Adjourn |

WEDNESDAY, FEBRUARY 5

7:30am – 12:00pm	Part II: Principles and Practice of Clinical MEG
7:30am	Breakfast
8:15am	Dipole Modeling of Epileptiform Activity <i>Jeffrey Tenney, MD, PhD</i>
9:00am	Artifacts in MEG <i>John Mosher, PhD</i>
9:30am	Normal Variants in MEG <i>Richard C. Burgess, MD, PhD</i>
10:00am	Break
10:15am	Source Modeling of Evoked Activity <i>Tony Wilson, PhD</i>
11:00am	Evidence-Based MEG Indications in Presurgical Epilepsy Evaluation <i>Anto Bagic, MD, PhD</i>
12:00pm	Lunch
1:00 – 5:00pm	Part III: MEG Contributions to Patient Management
1:00pm	Introduction to Case Presentations: Illustrating Evidence Based Indications for MEG <i>Heidi Kirsch, MS, MD</i>
1:05pm	Case Presentations <i>Anto Bagic, MD, PhD</i> <i>Ai Sumida, MD</i> <i>Richard C. Burgess, MD, PhD</i>
2:30pm	Coffee Break
2:45pm	Case Presentations <i>Michael Watkins, MD</i> <i>Ismail Mohamed, MD</i> <i>Heidi Kirsch, MS, MD</i>
4:15pm	Interactive Q&A with Speakers
5:00pm	Adjourn

CME INFORMATION

Educational Needs: Source modeling of MEG and EEG data are new and rapidly evolving areas of clinical neurophysiology, few practicing neurologists have adequate training in these techniques, and physicians with competence in these areas are in demand. Educational activities will provide an introduction to and understanding of this technology.

Learning Objectives

At the conclusion of this program, the learner should be able to:

1. Describe the underlying physics of MEG generation and recording;
2. Describe the most common and efficient organization of an MEG laboratory;
3. Identify epileptiform MEG waveforms with and without EEG correlates;
4. Process MEG and EEG data with source localization software;
5. Interpret dipole models of MEG and EEG epileptiform spikes and normal evoked fields;
6. Distinguish abnormal MEG transients from normal variants; and
7. Provide a localization of MEG and EEG activity to aid in pre-surgical epilepsy evaluations.

Target Audience: This educational activity is directed to clinical neurophysiologists, neurologists, psychiatrists, physiatrists, neurosurgeons, trainees in these disciplines and other physicians and researchers who utilize clinical neurophysiological techniques and knowledge in the diagnosis and management of patients with disorders of the nervous system.

Accreditation Statement

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 Clinical Neurophysiology Society (ACNS) and the American Clinical Magnetoencephalography Society (ACMEGS). ACNS is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation

ACNS designates this activity for a maximum of 10.5 *AMA PRA Category 1 Credit(s)*TM. Physicians should claim only credit commensurate with the extent of their participation in the activity.

ASET-CEUs

ASET - The Neurodiagnostic Society, has granted 10.5 ASET Continuing Education Unites (ASET-CEUs) for this program. Such credentialing, however, should not be construed by program participants as an endorsement of any type of instruments or supplies mentioned in these presentations.

PLANNING COMMITTEE CONFLICT OF INTEREST DISCLOSURE

Anto Bagic, MD, PhD	University of Pittsburgh	No Relationships
Richard C. Burgess, MD, PhD	Cleveland Clinic Epilepsy Center	No Relationships
Michael Funke, MD, PhD	University of Texas Health Sciences at Houston	No Relationships
Heidi Kirsch, MD	University of California San Francisco	Ricoh (b)
Jeffrey R. Tenney, MD, PhD	Cincinnati Children's Hospital Medical Center	No Relationships
Tony Wilson, PhD	Nebraska Medical Center	No Relationships
Andrew Zillgitt, MD	Beaumont Health	UCB (d)

PROPOSED FACULTY CONFLICT OF INTEREST DISCLOSURE

Anto Bagic, MD, PhD	University of Pittsburgh	No Relationships
Richard C. Burgess, MD, PhD	Cleveland Clinic Epilepsy Center	No Relationships
Heidi Kirsch, MS, MD	University of California San Francisco	Ricoh (b)
Ismail S. Mohamed, MD	UAB, Birmingham	No Relationships
John Mosher, PhD	Cleveland Clinic Epilepsy	No Relationships
Ai Sumida, MD	University of Texas Health Sciences Center of Houston	No Relationships
Jeffrey R. Tenney, MD, PhD	Cincinnati Children's Hospital Medical Center	No Relationships
Michael Watkins, MD	University of Texas Health Science Center of Houston	No Relationships
Tony Wilson, PhD	Nebraska Medical Center	No Relationships

Grants/Research Support; b. Consultant; c. Stock/Shareholder (self-managed); d. Speaker's Bureau; e. Advisory Board or Panel; f. Salary, Contractual Services; g. Other Financial or Material Support (royalties, patents, etc.)