



**2ND INTERNATIONAL WORKSHOP ON
ADVANCES IN ELECTROCORTICOGRAPHY**

THURSDAY, NOVEMBER 11 - FRIDAY, NOVEMBER 12, 2010

MARRIOTT HOTEL AND MARINA
333 West Harbor Drive
San Diego, California, USA



Wadsworth Center

New York State Department of Health

WHO SHOULD ATTEND

This program has been carefully designed to appeal to two target audiences. The program will be of interest to the scientist with interest in theory and application of electrocorticographic (ECoG) signals recorded from the surface of the brain in humans or animals. The program will also have strong appeal to neurologists, neurosurgeons, and clinical neurophysiologists whose practice involves functional brain mapping for epilepsy surgery and non-epilepsy lesionectomies.

ABOUT THE SYMPOSIUM

Increasing understanding of brain function and increasingly sophisticated methods for recording and interpreting signals from the surface of the brain (electrocorticography (ECoG)) are opening up exciting new opportunities for using these signals for clinical or research purposes. These developments have sparked tremendous interest in human and animal ECoG recordings to investigate the basis of normal brain function related to motor control, language, or memory, as well as of abnormal function such as epileptic seizures.

This workshop reviews established principles and new directions in ECoG-based research and application. It follows a hugely successful informal workshop at the American Epilepsy Society Annual Meeting in 2008 and the first formal ECoG workshop in Upstate New York in 2009. The planned two-day workshop is held as an official satellite to the Society for Neuroscience (SfN) meeting in San Diego, and thus will capitalize on the large number of scientists who will attend SfN and are interested in ECoG. The first day focuses on current clinical use of electrocorticography and emerging clinical opportunities. The second day focuses on principles of ECoG signals and emerging research.

LEARNING OBJECTIVES

At the conclusion of this conference, the participant should be able to:

- Discuss the nature of brain signals recorded electrocorticographically (ECoG).
- Discuss emerging understanding of ECoG and of emerging techniques to record it.
- Contrast standard electrical brain stimulation and real-time functional ECoG mapping.
- Discuss the role of high frequency ECoG in functional assessment of brain activity.
- Recognize the emerging value of high frequency EEG recordings in the evaluation of epilepsy surgery candidates and lesionectomy candidates.

ACCREDITATION

Albany Medical College is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Albany Medical College designates this educational activity for a maximum of *11 AMA PRA Category 1 Credits[™]*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Physician Assistants

AAPA accepts Category I credit from AOACCME, Prescribed credit from AAFP, and AMA Category I CME credit for the PRA from organizations accredited by ACCME.

For information regarding other professional credit, contact the Office of Continuing Medical Education.

TUITION

Tuition By:	November 1, 2010:	After November 1, 2010:
Single Day Registration	\$125.00	\$150.00
Two Day Registration	\$200.00	\$225.00

Tuition includes admission to the symposium, access to an on-line course syllabus and beverage breaks.

TUITION REFUND POLICY

Tuition refunds, minus a \$35.00 administrative charge, are possible if notification is received by November 1. After that date, one half of the paid registration fee, minus the administrative charge, can be refunded. Refunds will be processed upon receipt of a written request.

NEED INFORMATION?

For information regarding the conference, contact the Office of Continuing Medical Education by phone at (518) 262-5828, fax at (518) 262-5679 or e-mail at pricej@mail.amc.edu.

For emergency calls during the conference, call the Marriott at (619) 234-1500.

WEB SITES:

Albany Medical Center: www.amc.edu

CONFIRMATION

Registrations will be confirmed by e-mail. Should you register and not receive a confirmation notice, call the Office of Continuing Medical Education to be sure we have received your information. Lodging confirmation will be confirmed through SfN Housing.

SPECIAL NEEDS

Should you have a disability, dietary restrictions, or require other special arrangements, please call the Office of CME by November 1 to discuss your needs.

ATTIRE

Attire during the reception and conference sessions is neat casual. Since everyone has a different comfort level, we suggest that you bring a sweater or light jacket.

ON-LINE SYLLABUS

Printed syllabus material will NOT be available at the conference. The syllabus will be available on-line 5 days prior and 5 days after the conference. In order to receive access to the syllabus material you must provide your e-mail address on the registration form. You will receive access information via e-mail. If you do not receive access information please call (518) 262-5828.

ACCOMMODATION INFORMATION

- For overnight room reservations contact SfN Housing at (866) 999-3093 or SNF2010housing@CMRUS.com
- Reservations are not accepted directly by participating hotels or SfN headquarters.

FACULTY

COURSE DIRECTORS

RESEARCH

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CLINICAL

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2ND INTERNATIONAL WORKSHOP ON ADVANCES IN ELECTROCORTICOGRAPHY

DAY 1 - NOVEMBER 11, 2010

CLINICAL USE OF ELECTROCORTICOGRAPHY

MORNING SESSION: CLINICAL USE OF ELECTROCORTICOGRAPHY

8:45a-9:00a

Introductory Comments

*Anthony Ritaccio, M.D.,
Director of Epilepsy and Human Brain Mapping Program
Albany Medical College*

9:00a-9:45a

Keynote Address

*George Ojemann, M.D.
Professor Emeritus, University of Washington School of Medicine*

10:00a-10:45a

Contemporary Perspectives on Chronic ECoG and Epilepsy

*Robert Duckrow, M.D.
Associate Professor of Neurology and Neurosurgery, Yale University*

11:00a-11:45a

Contemporary Perspectives on Intraoperative ECoG and Epilepsy

*Andrew J. Cole, M.D.
Associate Professor of Neurology, Harvard Medical School*

AFTERNOON SESSION: EMERGING TRENDS

1:00p-1:45p

High Frequency Electroencephalography and the New ECoG: The Past Decade

*Nathan Crone, M.D.
Associate Professor of Neurology, The Johns Hopkins Hospital*

2:00p-2:45p

Instrumentation for Emerging Clinical Applications

*Peter Brunner, M.S.
Research Engineer, Wadsworth Center/Albany Medical College*

3:00p-3:45p

Using ECoG Signals for Seizure Detection and Prediction

*Brian Litt, M.D.
Assoc. Prof. of Neurology and Bioengineering, University of Pennsylvania*

4:00p-4:45p

Using ECoG Signals for Real-Time Passive Brain Mapping

*Anthony Ritaccio, M.D.
Director of Epilepsy and Human Brain Mapping Program
Albany Medical College*

2ND INTERNATIONAL WORKSHOP ON ADVANCES IN ELECTROCORTICOGRAPHY

DAY 2 - NOVEMBER 12, 2010

RESEARCH USE OF ELECTROCORTICOGRAPHY

MORNING SESSION: PRINCIPLES OF ECoG SIGNALS AND THEIR INTERPRETATION

8:45a-9:00a

Introductory Comments

Gerwin Schalk, Ph.D.

Research Scientist, Wadsworth Center; Assoc. Prof., Albany Medical College

9:00a-9:45a

Keynote Address

Scott Makeig, Ph.D.

Director, Swartz Center for Computational Neuroscience, UCSD

10:00a-10:45a

Emerging Understanding of ECoG Signal Phenomena

Kai Miller, Ph.D.

Dept. of Physics and Medicine, University of Washington

11:00a-11:45a

Detecting Detailed Aspects of Behavior in Human ECoG

Gerwin Schalk, Ph.D.

Research Scientist, Wadsworth Center; Assoc. Prof., Albany Medical College

AFTERNOON SESSION: EMERGING RESEARCH FINDINGS

1:00p-1:45p

Flexible Thin Film Electrode Arrays for Chronic Micro-ECoG Recordings

Justin Williams, Ph.D.

*Assoc. Professor of Biomedical Engineering,
University of Wisconsin-Madison*

2:00p-2:45p

Brain-Computer Interfacing Using ECoG in Monkeys

Daniel Moran, Ph.D.

*Assoc. Professor of Biomedical Engineering,
Washington University in St. Louis*

3:00p-3:45p

ECoG Brain Dynamics in High-Resolution Recordings in Monkeys

Pascal Fries, M.D., Ph.D.

Director, Max-Planck Institute for Brain Research, Germany

4:00p-4:45p

ECoG Electrode Arrays with Active Electronics

Brian Litt, M.D.

Assoc. Prof. of Neurology and Bioengineering, University of Pennsylvania

5:00p-5:30p

Q&A

All faculty

CONFERENCE REGISTRATION FORM

2ND INTERNATIONAL WORKSHOP ON ADVANCES IN ELECTROCORTICOGRAPHY NOVEMBER 11-12, 2010

Name & Degree (as to appear on conference materials): _____

CME Credit Tracking: _____ - _____ - _____
Month of Birth Date of Birth First 4 Characters of First Name

Specialty: _____

Institution/Affiliation: _____

Department: _____

Business Address: _____

City: _____ State: _____ Zip: _____

Business Phone: _____ Business Fax: _____

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Home Phone: _____

City: _____ State: _____ Zip: _____

E-mail Address (You must provide an e-mail address to gain access to the on-line syllabus): _____

PLEASE REGISTER ME FOR THE FOLLOWING SESSIONS:

- Thursday, November 11, 2010 Friday, November 12, 2010
 Both Thursday & Friday, November 11 & 12, 2010

PLEASE INDICATE METHOD OF PAYMENT:

- My Check for \$_____, payable to Albany Medical College is enclosed.
 Please charge my credit card for the amount of \$_____.
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METHOD OF REGISTRATION: MAIL OR FAX

RETURN THIS FORM WITH PAYMENT TO:

Office of Continuing Medical Education, Electrocorticography
Workshop, Albany Medical College, Mail Code – 1 J408,
47 New Scotland Avenue, Albany, New York 12208-3479

Fax (518) 262-5679 registrations accepted for Visa, MasterCard,
Discover and American Express only. Fax registrations without
credit card payment cannot be processed. This is a secure fax.
Please register one person per form. This form may be photocopied.

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