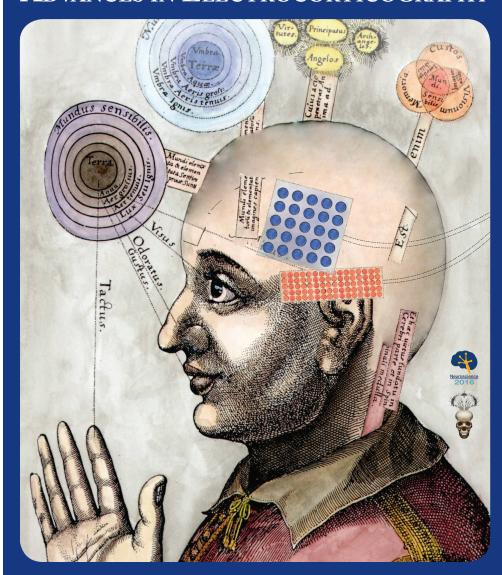
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10th International Workshop on Advances in Electrocorticography



Thursday, November 10 - Friday, November 11, 2016

MARRIOTT MARQUIS - San Diego Marina 333 West Harbor Drive San Diego, CA 92101 USA













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 an 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 a strong appeal to neurologists, neurosurgeons, or clinical neurophysiologists who are interested in the clinical application of modern ECoG recording/stimulation technologies.

ABOUT THE SYMPOSIUM

Electrocorticography (ECoG) is the technique of interacting with the brain electrically by stimulating or recording from the surface of the brain. ECoG has been used for decades for select clinical purposes – most commonly to identify functional and epileptic brain areas in people with epilepsy – and occasionally for research. The important role of ECoG for basic research and its potential to create a new range of clinical applications have long been under-appreciated.

Over the past several years, the unique qualities of ECoG have become widely and increasingly recognized by scientists engaged in basic and translational research. Basic research suggests that ECoG can elucidate brain function in ways that cannot be readily achieved using other imaging modalities, and translational research is producing exciting new ECoG-based applications that are already becoming available in the clinic.

This two-day ECoG workshop highlights current understanding and advances in scientific, engineering, and clinical domains that are relevant to ECoG recordings in humans or animals. It will be the 10th workshop in a highly successful workshop series. It follows an informal workshop at the American Epilepsy Society Annual Meeting in 2008, the first formal ECoG workshop in Upstate New York in 2009, the second ECoG workshop in San Diego, CA, in 2010 (satellite to SfN), the third ECoG workshop in Washington, DC, in 2011 (satellite to SfN), the fourth ECoG workshop in New Orleans, LA, in 2012 (satellite to SfN), the fifth ECoG workshop in San Diego, CA, in 2013 (satellite to SfN), the sixth ECoG workshop in Berlin, Germany, in March 2014, the 7th ECoG Workshop in Washington, DC, in November 2014 (satellite to SfN), the 8th ECoG Workshop in Chicago in October 2015 (satellite to SfN), and the 9th ECoG Workshop in Philadelphia in December 2015. To date, the results of these workshops have been reported in six highly visible Proceedings articles that were published by Epilepsy and Behavior.

LEARNING OBJECTIVES

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

- Discuss the nature of brain signals recorded electrocorticographically (ECoG).
- Know about emerging understanding of ECoG physiology and of emerging techniques to record it.
- · Have an overview of current efforts in ECoG-based neuroscience.
- 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 ECoG 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 live activity for a maximum of 10.50 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CONFERENCE REGISTRATION FORM NOVEMBER 10-11, 2016 10th International Workshop on Advances in Electrocorticography

TUITION (Only paid registrations can be accepted.)	•	After November 1, 2016				
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TUITION

	By November 1, 2016:	After November 1, 2016:
Single Day Registration	\$200.00	\$225.00
Students	\$175.00	\$175.00
Two Day Registration	\$285.00	\$345.00
Students	\$255.00	\$255.00

Tuition includes admission to the symposium lunch and beverage breaks.

TUITION REFUND POLICY

Tuition refunds, are possible if notification is received by November 1. After that date, no refunds will be issued. 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 pricei@mail.amc.edu

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

WEB SITES

Conference Website - www.ecog.info

Marriott Marquis - San Diego Marina

http://www.marriott.com/hotels/travel/sandt-marriott-marquis-san-diego-marina/

Albany Medical Center - www.amc.edu

CONFIRMATION

All registrants will receive a confirmation. If you register and do not receive a confirmation notice within one week of your registrations, please call the Office of Continuing Medical Education at (518) 262-5828 to be sure we have received your information.

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 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. **If** syllabus material is available, it will be posted on-line prior and 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.

ACKNOWLEDGEMENT

We gratefully acknowledge the following organizations for providing support for this conference:

US Army • Fondazione Neurone

10TH International Workshop on Advances in Electrocorticography

DAY 1 - Thursday, November 10, 2016		DAY 2 - Friday, November 11, 2016	
8:30a-9:00a	Welcome, General and Session Introductions Gerwin Schalk, PhD, and Anthony Ritaccio, MD	8:30a-9:00a	General and Session Introductions Anthony Ritaccio, MD, and Gerwin Schalk, PhD
9:00a-9:45a	Distributed Bi-directional Brain-Computer-Interface Technologies and Conceptual Applications Tim Denison, PhD, Medtronic	9:00a-9:45a	Intracortical Neural Interfaces for the Restoration of Communication and Mobility Leigh Hochberg, MD, PhD, FANA, FAAN, Brown University
0.45 10.00	(CME Credit is NOT Available for this lecture)	9:45a-10:00a	Break
9:45a-10:00a 10:00a-10:45a	Break ECoG-based BCI Implant for Communication in the Locked-in State Nick Ramsey, PhD, University Medical Center Utrecht	10:00a-10:45a	Multi-site ECoG: What We Can Learn From the Restoring Active Memory Trial Kathryn Davis, MD, MSTR, University of Pennsylvania
10:45a-11:15a	Break	10:45a-11:15a	Break
11:15a-12:00p	Towards a Platform for Integrating ECoG and Other Multimodal Data	11:15a-12:00p	Intracortical Insights into the Human Sense of Smell Jay Gottfried, MD, PhD, Northwestern University
	Zack Ives, PhD, University of Pennsylvania	12:00p-1:00p	Lunch
12:00p-1:00p 1:00p-1:35p	Lunch Intracranial Signatures of the Perception and Memory of Spoken Sentences	1:00p-1:35p	Application of Continuous Cortical and Deep LFPs for Adaptive DBS Control Kelly Foote, MD, University of Florida
1:35p-2:10p	Christopher Honey, PhD, Johns Hopkins University Computational Models of ECoG Signals in Human Visual Cortex	1:35p-2:10p	Detecting Physiological Signatures of Disease States Using ECoG Coralie De Hemptinne, PhD, University of California - San Francisco
	Jon Winawer, PhD, New York University	2:10p-2:25p	Break
2:10p-2:25p 2:25p-3:00p	Break Neuronal Synchrony and the Relation Between the ECoG Signal	2:25p-3:00p	ECoG Signatures of Subcortical Input to the Brain Surface Kai Miller, PhD, MD, PhD, Stanford University
and	and the BOLD Response	3:00p-3:30p	Panel Discussion
2.00	Dora Hermes, PhD, University Medical Center Utrecht	3:30p-4:00p	Break
3:00p-3:30p	Panel Discussion	4:00p-4:45p	CorTec Brain Interchange – Developing a 32-Channel Implant System for Clinical Research Joern Rickert, PhD, Founder and CEO of CorTec (CME Credit is NOT available for this lecture)
3:30p-4:00p	Break	1 1	
4:00p-4:45p	Engineering Approaches to Understanding Control in Brain Networks Danielle Bassett, PhD, University of Pennsylvania		
4:45p-5:00p	Break	4:45p-5:00p	Break
ECoG Signa Jose Carmena	Closed-loop Neurofeedback Paradigms Using LFP and ECoG Signals in Monkey and Man	5:00p-5:45p	A Hybrid System Solution to ECoG Control of Prosthesis Nitish Thakor, PhD, Johns Hopkins University
	Jose Carmena, PhD, University of California, Berkley	6:00p	Reception
	Faculty Dinner		