

International workshop  
GCOE CEDI global seminar  
**Advances in Neuroengineering II**



2-3 February, 2009

Conference Room B, Osaka University Icho-Kaikan, Suita, Osaka, Japan

Sponsored by Osaka University global COE program "Electronic Devices Innovation" (CEDI)

Co-sponsored by the Center for Advanced Medical Engineering and Informatics, Osaka University

This international workshop will focus on the neuroengineering including neurophysiology, neuroprosthesis, and simulation, and provide an opportunity for scientists and engineers working in the field of neuroengineering to make discussion with frontiers of neuroengineering and neuroscience.

### Program

Feb. 2

- 13:00-13:10 Opening remark (T. Yagi, Osaka University)
- 13:10-13:50 **S. N. Kudoh** (AIST)  
"Neurodynamics and neurorobotics"
- 13:50-14:30 **B. E. Greger** (University of Utah)  
"Performance and applications of intra-cortical and epi-cortical micro-electrode arrays"
- 14:30-15:10 **W.-J. Song** (Kumamoto University)  
"Decoding tone stimuli from cortical optical signals"

#### *Special lecture*

- 15:30-16:30 **I. Fujita** (Osaka University)  
"Stereopsis: 3-D world viewed with two eyes and two cortical pathways"

17:00- **Reception**

Feb. 3

- 10:00-10:30 **M. Osanai** (Osaka University)  
"Visualization of brain activity from in vitro to in vivo"
- 10:30-11:00 **J. Hasegawa** (Osaka University)  
"Reconstruction of neural images: What do visual neurons see?"
- 11:20-12:00 **D. Tso** (SUNY)  
"Seeing seeing is believing: Optical imaging studies of the visual system"
- 13:00- Discussions (moderator: M. Osanai)
- 14:30- Closing remark (M. Osanai, Osaka University)

### Venue

Osaka University Icho Kaikan, Conference Room (Kaigi Shitsu) B located in SUITA campus of Osaka University.

<http://www.osaka-u.ac.jp/eng/accessmap.html> (access map)

<http://www.osaka-u.ac.jp/eng/target/student/campus/suita.html> (campus map: No. 57 is Icho Kaikan)

<http://www.office.med.osaka-u.ac.jp/icho/icho-jp.html> (Icho Kaikan web page)

### Organizer

Makoto Osanai, Associate Professor,

Division of Electrical, Electronic and Information Engineering, Graduate School of Engineering, Osaka University

E-mail: [osanai@eei.eng.osaka-u.ac.jp](mailto:osanai@eei.eng.osaka-u.ac.jp)

Web site of CEDI, <http://www.eei.eng.osaka-u.ac.jp/gcoe/>