

# 1st Global COE International Symposium Electronic Devices Innovation EDIS2008

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

January 21-22, 2008

Icho Kaikan, Osaka University, Suita, Osaka, Japan

Sponsored by the Global COE Program "Center for Electronic Devices Innovation"

The global COE program "Center for Electronic Devices Innovation" has just started in Osaka University. We invite you to attend the first International Symposium of the COE program in January. The symposium will focus on the research challenges for future electronic devices and provide an opportunity for scientists and engineers working in various fields of electronic devices. You are cordially invited to participate in the symposium.

Papers are solicited in, but not limited to the following areas:

- Sensor devices
- Photonic devices
- Power devices
- New materials for electronic devices
- Characterization and analysis of electronic devices
- LSI implementation of electronic devices

## Symposium Program

### January 21

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- Morning: Opening Remarks (K. Taniguchi, Leader of Global COE)  
Plenary Lectures (part 1)
- Afternoon: Welcome Address (M. Toyoda, Dean of Graduate School of Engineering, Osaka University)  
Plenary Lectures (part 2)  
Welcome Address (Z. Kawasaki, Head of Division of Electrical, Electronic and Information Engineering)
- Evening: Reception

### January 22

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- Morning: Short Oral Presentations  
Poster Session
- Afternoon: Oral Presentations  
Closing Remarks

The symposium program and other information will be updated regularly.

Please keep checking the web site of EDIS 2008 for up to date information.

## Plenary Lectures:

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| Sensor devices:   | <b>L. Cohen (Yale University)</b><br>"Optical Recording of Brain and Heart Activity; Science and Technology"<br><b>R. Harrison (University of Utah)</b><br>"The Utah Integrated Neural Interface: Wireless Gateway to the Brain"                           |
| Photonic devices:                                       | <b>J. Fuchs (Ecole Polytechnique)</b><br>"High Energy Plasma Photonic Devices with High Power Lasers"  |
| Power devices:  | <b>I. Omura (Toshiba Semiconductor Company)</b><br>"Power Semiconductor Devices:<br>Enabling Technology for Sustainable Prosperity"  |
| New materials for electronic devices:                   | <b>Y. Yang (UCLA)</b><br>"Organic Memory Devices: New Direction in Organic Electronics"  |
| Characterization and analysis of<br>electronic devices: | <b>M. Fischetti (University of Massachusetts)</b><br>"Theory and Simulation of Electronic Transport in<br>Unconventional MOSFETs at the 20 nm Length Scale"<br><b>A. Schwarz (Hamburg University)</b><br>"Advances in Magnetic Sensitive Force Microscopy" |

### Paper Submission:

Instructions for paper submission and paper template are available at the EDIS 2008 web site.

### Registration and Accommodations:

Instructions of registration and accommodations are available at the EDIS 2008 web site.

The registration fee will be free except for symposium reception and extra copies of proceedings.

### Student Travel Support:

Financial support for attending the symposium is available to some foreign students selected as oral speakers.

The support must be requested when the paper is submitted by choosing this option in the submission form.

### Student Paper Awards:

Papers presented by students will be considered for the Student Paper Awards.

The award winners will be decided based on the paper and presentation.

### Important Dates:

Paper Submission Deadline      December 8, 2007

Notification of Acceptance      December 13, 2007

Registration Deadline            December 25, 2007

Symposium                          January 21-22, 2008

### Reception:

A reception will be held on Monday evening, January 21. Payment of JPY1000 will be asked for participation.

### The Venue:

EDIS 2008 will be held at *Icho Kaikan*, which is located in SUITA Campus of Osaka University.

SUITA Campus is located in Suita City at north Osaka.

Detailed access map is available at Osaka University web site.

<http://www.osaka-u.ac.jp/eng/accessmap.html> or [http://www.eng.osaka-u.ac.jp/en/access\\_map.html](http://www.eng.osaka-u.ac.jp/en/access_map.html)

The SUITA campus map is also available at following web page, and the location number 57 indicates *Icho Kaikan*.

<http://www.osaka-u.ac.jp/eng/target/student/campus/suita.html>

### Organizing Committee:

Chairperson: K. Taniguchi

Members: T. Ise, T. Ito, M. Kuzuhara, M. Katayama, T. Sugino, M. Osanai, M. Tonouchi, H. Itozaki, R. Kodama, K. Kitayama, K. Inoue, T. Suhara, M. Kondow, M. Ozaki, M. Yoshimura, Y. Ohmori, N. Mori, M. Abe and T. Matsuoka

### Program Committee:

Chairperson: K. Taniguchi

Members: T. Ise, M. Katayama, R. Kodama, M. Ozaki, Y. Ohmori, Y. Miura, S. Honda, M. Abe, A. Fujii, N. Ozaki, T. Matsuoka, I. Kawayama, M. Osanai and Y. Kamakura

### Steering Committee:

Chairperson: H. Kajii

Members: H. Nishimura, M. Fujimura, M. Yoshimura and S. Kurosaki

### Cosponsored by:

Graduate School of Engineering, Osaka University

Quantum Nano IT Initiative

Electronics Collaboration Initiative "Leptos"

Leading-edge System Design Center

### Web site of EDIS 2008:

Updated information on the symposium is presented in the web site.

<http://www.eei.eng.osaka-u.ac.jp/gcoe/edis/>

### Contact:

Secretariat of EDIS 2008

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

Tel: +81-6-6876-4711 Fax: +81-6-6876-4713

