



Organizers



School of Electrical &
Electronic Engineering,
Nanyang Technological University,
Singapore

7th East Asian Conference On Chemical Sensors

Novotel Clark Quay, Singapore
December 3 – 5, 2007

<http://www.eaccs2007.org> or <http://www.ntu.edu.sg/eaccs>

Call for Abstracts

Sponsored By



Japan Association of Chemical
Sensors, The Electrochemical
Society of Japan

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The 7th East Asian Conference on Chemical Sensors (EACCS'07) will be held in Singapore, December 3 – 5, 2007. This is a biennial event for scientists and researchers working on chemical sensors to gather together and discuss the development and trend in a formal yet relaxed manner. The previous conferences were Fukuoka'93, Xi'an'95, Seoul'97, Taipei'99, Nagasaki'01, and Guilin'05.

Chemical sensors are important in modern society to provide us with safe and healthy life environment. After "9-11" tragic event at New York, chemical sensors have become a hot topic in sensing explosive and toxic materials. Meanwhile, with the development of nanoscience and nanotechnology, we see a lot of old chemical sensors have been revisited. In this conference, besides the traditional topics covered, we have introduced two special sessions/topics on chemical sensors in sensing explosives and toxicants and nanotechnology applications in chemical sensors. The program of EACCS'07 will include but not limited to the following topics:

- New sensing materials development
- Nanotechnology applications in chemical sensors
- Chemical sensors in sensing explosives and toxicants
- Sensor fabrication technology
- Sensing principles and mechanisms
- Biosensors and μ TAS
- Gas sensors
- Humidity sensors
- Electrochemical devices
- Acoustic sensors
- Integrated chemical sensors
- Packaging materials and technology
- Analytical Microsystems
- Novel approaches to sensing
- Other emerging chemical sensors

Important Dates

Abstract Deadline
May 31, 2007

Notification of Acceptance
July 15, 2007

Early Registration Deadline
Sept 30, 2007

Full Manuscript Submission
Nov 23, 2007

A special issue in **Sensor Letters** (<http://www.aspbs.com/sensorlett/>) will be published for selected papers in this conference, subject to a peer-review process. Interested authors should submit their expanded full papers to the conference by 23 Nov 2007. Detail information will be given at a later stage.

Registration Fee

Authors/Paper Presenters will be required to pay registration fee by 30 Sep 2007, in order for their papers to be scheduled for oral presentation. Each delegate registration entitles to two (2) final paper presentations. Each student registration entitles to only One (1) final paper presentation.

Official language

The official language for written and printed materials, as well as for presentation and discussion, is English.

For further information, please contact: **EACCS 2007 Manager**
c/o Integrated Meetings Specialist, Block 998 Toa Payoh North, #07-18 Singapore 318993
Tel: (65) 6356 4727 Fax: (65) 6356 7471 Email: eaccs2007@inmeet.com.sg

Keynote Speakers/ Invited Speakers (as of April 2007)

Details of each speakers presentation titles are updated on the website.

Makoto EGASHIRA, Nagasaki University, Nagasaki, Japan
"Latest approaches to the detection of volatile organic compounds"

Swee Chuan T JIN, Nanyang Technological University, Singapore
"Point-of-Care Bioassay technologies"

Giorgio SBERVEGLIERI, University of Brescia, Italy
"Crystalline nanowires of semiconducting metal oxides as a new generation of selective and stable gas sensors"

Ishaque KHAN, Illinois Institute of Technology, Chicago, USA
"Nanostructured Materials and Designer Solids for Chemical Sensing"

Sheikh A. AKBAR, Ohio State University, USA
"Ceramic Nano-structures without Lithography: Platforms for Sensing and Catalysis"

Hiroaki SUZUKI, University of Tsukuba, Japan

Duk-Dong LEE, Kyungpook National University, Taegu, Korea
"Toxic Gas Sensitive Micro Sensing Device"

Ralf MOOS, University of Bayreuth, Germany
"Recent developments in the field of automotive exhaust sensing"

Michael THOMPSON, University of Toronto, Canada

Yasar GURBUZ, Sabanci University, Turkey
"Affinity-based, label-free biosensors, specifically for detection of risk markers"

Juan Ramon MORANTE, University of Barcelona, Barcelona, Spain
"Illumination effects on the gas sensing properties of metal oxides nanowires and 3-D nanocrystal networks: Engineering the chemical electrical transduction mechanism"

Yasuhiro SHIMIZU, Nagasaki University, Nagasaki, Japan
"Electrode design for high H₂ sensing performance of TiO₂-based diode-type sensor"

Takamichi NAKAMOTO, Tokyo Institute of Technology, Japan
"Odor recorder"

Jun-ichi ANZAI, Tohoku University, Japan
"Stimuli-sensitive layer-by-layer films for biosensor applications"

Udo WEIMAR, University of Tübingen, Germany
"Chemical Sensing and its Applications: Lessons learnt from Networking"

Norio MIURA, Kyushu University, Japan
"High-Performance SPR Immunosensors for Environmental and Biomedical Applications"

Shunichi UCHIYAMA, Graduate School of Engineering, Saitama Institute of Technology, Japan
"Electrochemical Biosensors using enzyme micelle membranes and aminated carbon electrodes"

Shin-ichi WAKIDA, National Institute of Advanced Industrial Science and Technology, Japan
"Development of New Ionophore and Their Application to FET Checker"

Zhiqiang GAO, Institute of Microelectronics, Singapore

George KIRIAKIDIS, PEMPL, IESL/FORTH Crete, Greece
"Tribological study of thin metal oxide gas sensing surfaces"

Wei GAO, The University of Auckland, New Zealand

Osamu Niwa, Biosensing, Technology Research Group, AIST, Japan
"New film electrodes for highly sensitive and selective electrochemical detection and sensing"

Zi-long TANG, Tsinghua University, Beijing, China
"Nano metal oxide gas sensor and its applications"

Weng Poo KANG, Vanderbilt University, Nashville, USA
"Carbon Based Ultramicroelectrode Chemical Sensing Arrays"

Jong-Heun LEE, Korea University, Korea
"Design of Fast-responding Gas Sensors using Nano-porous Structures"

Lionel Vayssieres, Lawrence Berkeley National Laboratory, USA
"Metal Oxide Nanorod-based sensors"

Pietro Siciliano, Director Institute for Microelectronics and Microsystems, IMM-CNR Lecce, Italy
"New micro-nanotechnological perspectives of sensors and microsystems for food analysis"

Nobuhito Imanaka, Osaka University, Japan
"Gas Sensing Design with Multivalent Ion Conducting Solids"

Submission Procedure

Please note:

1. Abstracts should not exceed 600 words (the abstract should not include table or figure).
2. Indicate up to 7 co-author's names.
3. Submissions should be made by the presenting author with contact details
4. Include 3 keywords.
5. All abstracts will be refereed and a criterion of rejection will be lack of originality.
6. The paper will be presented at the conference by one of the authors.
7. **All abstracts should be submitted electronically through conference website.**
8. Please note that fax copies are not acceptable.

Papers must be uploaded as PDF files on the conference web site directly. No hard copy submissions will be entertained. All submitted full papers would be fully peer reviewed by specialist referees assigned by the technical program committee. Accepted papers would be selected for either **Oral or Poster presentations**.

The early bird registration deadline for other delegates is 30 Sep 2007.

Conference Delegate	Early Bird Registration:	SGD 700
	Standard Registration:	SGD 800
Student	Early Bird Registration:	SGD 400
	Standard Registration:	SGD 450

The registration fee includes:

- Book of Abstracts and Program
- Conference kit
- Daily lunches and tea/coffee breaks
- Conference banquet (No Conference banquet for students)