

ICMR 2009 AKITA CALL FOR PAPERS

The conference receives the main idea of the first 1991 conference: Beneficial integration of separate ideas in the various and traditional engineering fields into a new concept, which could provide for sustainable development of human being. In the sixth conference, the following topics are included in the special eight sessions: (1) Strategy of Environment, Resource and Energy for Sustainable Development (2) Construction Materials for Sustainable Development (3) New Recycling Systems (4) Advanced Materials for Sensors and Information Storage (5) New Materials for Life Science (6) Processing and Characterization of Functional Materials (7) Computer Engineering and Materials Engineering for Resources (8) New Technology for Industry

Topics listed above are indicative. Authors are allowed to submit papers also on other topics related to the main purpose of the conference. Accepted communications will be presented in poster form. The proceedings should be prepared. After discussion at the conference, revised papers can be submitted as an original paper in a special issue of International Journal of The Society of Materials Engineering for Resources.

Invited Plenary Lectures:

- ◆ Jin-Ming Lin (Tsinghua University; CHINA) Direct Writing of Hydrogel Microarrays in Microchannels Using Field Diaphragm-Assisted Microscope Projection Photolithography.
- ◆ Lech Czarnecki (Warsaw University of Technology; POLAND) Sustainable Construction as a Research Area.
- ◆ Toyohisa Fujita (Tokyo University; JAPAN) Recycling system consideration using RFID technology.
- ◆ Bruce Terris (Hitachi Global Storage Technologies, San Jose Research Center; U.S.A.) From nanolithography to energy assisted writing --is there a limit to magnetic recording density?
- ◆ Tomokazu Matsue (Tohoku University; JAPAN) Integrated Biodevices Based on Microfabrication with Biomaterials.
- ◆ Yasuhiro Aoyama (Kyoto University; JAPAN) A SELEX (Artificial Evolution) Approach to Light-Up Sensing Materials for Bioimaging.
- ◆ Akira Harada (Osaka University; JAPAN) Artificial Polymerases and Molecular Chaperones.
- ◆ William H. Smyrl (University of Minnesota; U.S.A.) Oxide Nanotubes for Fuel Cells and Batteries.
- ◆ Kimoon Kim (Pohang University of Science and Technology; KOREA) Functionalized Cucurbiturils and Their Biological Applications.
- ◆ Antonio Rubio (Politecnical University of Catalonia; SPAIN) Electronic design under new alternatives to solid-state semiconductor.
- ◆ Akira Tonomura (Hitachi, Ltd.; JAPAN) Direct Observation of Microscopic Magnetic Structures in Materials by Electron Phase Microscopy.

Invited Keynote Lectures:

- ◆ Thomas A. Bier (Technische Universität Bergakademie Freiberg; GERMANY) Trends for Sustainable Construction in Germany.
- ◆ Punya Charusiri (Chulalongkorn University; THAILAND) Introduction of rare metal resources in Thailand.
- ◆ Emmy Suparka (Bandung Institute of Technology; INDONESIA) Introduction of rare metal resources in Indonesia.
- ◆ Kyu-Seok Yeon (Kangwon National University; KOREA) Polymer Concrete as a Novel Construction Material.

- ◆ Masahiro Ouchi (Kochi University of Technology; JAPAN) History of investment for Infrastructure in Japan in terms of consumption of cement and concrete and prospect in East Asian countries.
- ◆ Kevin M. Jaansalu (Montana Tech, The University of Montana; U.S.A.) Replacement of lead in free machining copper alloys used in high electrical conductivity applications.
- ◆ Zhang Shu-biao (Dalian Nationalities University; CHINA) The hybrid of cationic liposomes and biomaterials for gene delivery.
- ◆ Tetsuo Osa (Tohoku University; JAPAN) Design and Preparation of Chemically Modified Electrodes for Selective Organic Electro-Preparative Synthesis.
- ◆ Toru Ozeki (Hyogo University of Teacher Education; JAPAN) Change of the Influence of Long-distance Transportation of Ionic Pollutants on the Atmospheric Environment of Japan during Past Eight Years - Comparison of the Monitoring Results of Acid Precipitation Carried Out at Wide Areas in (2000-2001), (2004-2005), and (2007-2008) -.
- ◆ Wenli Pei (Northeastern University; JAPAN) Magnetic reversal behavior of nanodots and synthesis of low-dimension Pt nanomaterials by wet chemical method.
- ◆ Yuhua Wang (Lanzhou University; CHINA) Synthesis and Vacuum Ultraviolet Spectral Properties of Nano-scaled phosphor.
- ◆ Leon Abelmann (University of Twente; NETHERLANDS) Non-volatile data storage beyond 2020.
- ◆ Kimin Hong (Chungnam National University; COREA) Electrodeposition of copper for metallic interconnects.
- ◆ Zhan W. Chen (AUT University; NEW ZEALAND) Dependencies of shoulder induced, pin induced and combined flows on rotation speed and welding speed during friction stir welding and processing.
- ◆ Danqing Yi (Central South University; CHINA) Effect of temperature and corrosion environment on cyclic fatigue and final fracture of 2524 aluminum alloy.
- ◆ Kuen TING (Lunghwa University of Science and Technology; TAIWAN) Nanomechanics Characterization of Diamond-Like Carbon with Different Substrate Temperature by MPCVD.
- ◆ Yuichi Ikuhara (Tokyo University; JAPAN) Interface Atomic Structures and Properties of Ceramics.
- ◆ Toshiaki Ohtsuka (Hokkaido University; JAPAN) Passive Oxide Films and their In-situ Detection.
- ◆ Youg Kui Liu (Dalian Nationalities University; CHINA) Several Algorithms in Computer Graphics.
- ◆ Yuanxing Zhou (Tsinghua University; CHINA) Space charge Effects on breakdown of oil-paper insulation for ultra-high voltage transformer.

MODE OF PRESENTATION

The technical program consists of three kinds of session:

- ◆ Plenary; 35 min-lecture including 5 min discussion.
- ◆ Keynote; 20 min-lecture including 5 min discussion.
- ◆ Oral and panel; 3 min-lecture each and poster-site discussion.
- ◆ Official language is English.

AWARD

A couple of outstanding contributions should be awarded by ICMR awarding committee.

TIME TABLE

- ◆ March 14, 2009 : Deadline for submission of title and abstract
 - ◆ March 31, 2009 : Notification of acceptance for Presentation
 - ◆ April 30, 2009 : Full paper submission for review
 - ◆ July 30, 2009 : Final manuscript due for the Proceedings
- See "preparation of the Camera-Ready Manuscript of ICMR 2009" that can be taken from Web site: <http://smerj.ie.akita-u.ac.jp/icmr/icmr.htm>
Manuscript for proceeding should be sent to:
Prof. Shigemi Taguchi
Chairperson of Programming Committee ICMR 2009, c/o Faculty of Engineering and Resource Science, Akita University, Akita 010-8502 JAPAN
E-mail: icmr2009@gipc.akita-u.ac.jp

REGISTRATION FEE

Regular Fee : ¥40,000 (incl. Proceedings and Banquet Fee)

Student Fee : ¥10,000 (incl. Proceedings)

Payment must be completed in Japanese Yen (¥) by Bank Transfer by 31 August, 2009

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