MRS-J
The Materials Research Society of Japan

Second Announcement & Call for Papers

Website: http://iumrs-icem2012.org/
Announcement: http://mrs-j.org/home/en
Abstract Submission Due : April 17(Tue), 2012
(Extended)

IUMRS-ICEM 2012

IUMRS International Conference on Electronic Materials 2012

September 23 (Sun) - 28 (Fri), 2012,
Pacifico Yokohama, Yokohama, Japan

Contact Details

Chairman
Dr. Naoki Kishimoto, National Institute for Materials Science (NIMS)
E-mail: KISHIMOTO.Naoki@nims.go.jp

General Secretary
Prof. Atsushi Suzuki, Yokohama National University
E-mail: iumrs-icem2012@ynu.ac.jp

Secretariat of IUMRS-ICEM 2012
The Society of Non-Traditional Technology
E-mail: iumrs-icem2012@sntt.or.jp
Tel : +81-3-3503-4681
Fax: +81-3-3597-0535

Committees

International Advisory Board
IUMRS Officers,
Presidents of MRS Adhering Bodies

Organizing Committee
MRS - J Officers

Program Committee
Organizers of Symposia

Registration Fee

Early Bird Before 17 July 2012	
Member of IUMRS or MRS - J / Member of Academic Societies in Cooperation*1 / Resident in Japan	¥60,000
Non - Member / Resident in Japan	¥70,000
Overseas (Non - Student)	US$600
Student Member of IUMRS or MRS - J / Member of Academic Societies in Cooperation / Resident in Japan	¥30,000
Non - Student Member / Resident in Japan	¥40,000
Overseas Student	US$350
General After 18 July 2012	
Member of IUMRS or MRS - J / Member of Academic Societies in Cooperation*1 / Resident in Japan	¥70,000
Non - Member / Resident in Japan	¥80,000
Overseas (Non - Student)	US$700
Student Member of IUMRS or MRS - J / Member of Academic Societies in Cooperation / Resident in Japan	¥40,000
Non - Student Member / Resident in Japan	¥50,000
Overseas Student	US$450
Onsite	
Member of IUMRS or MRS - J / Member of Academic Societies in Cooperation*1 / Resident in Japan	¥80,000
Non - Member / Resident in Japan	¥90,000
Overseas (Non - Student)	US$800
Student Member of IUMRS or MRS-J / Member of Academic Societies in Cooperation / Resident in Japan	¥50,000
Non - Student Member / Resident in Japan	¥60,000
Overseas Student	US$500

*1 This fee can apply for the members of Academic Societies in Cooperation.

Note *Both bank transfer and credit card payment are acceptable.
*Registration fee includes Abstract CD-ROM and Program Book.

Important Dates

Online abstract submission system open
in the end of January 2012

Abstract submission deadline
31 March 2012

Acceptance notification
in the middle of May 2012

Online registration open
by the end of May 2012

Early bird registration deadline
17 July 2012

Conference
23-28 September 2012

Banquet Banquet Fee : ¥10,000
Venue : Osanbashi Yokohama, International Passenger Terminal

Family programs (Option) Sightseeing tours in Yokohama

Second Announcement & Call for Papers

IUMRS-ICEM 2012 will be held in Yokohama, Japan, as one of the series of IUMRS international conferences focusing on advanced electronic and related materials. The electronic materials are the keys to solve global problems, especially those for environment and energy. IUMRS-ICEM 2012 in Yokohama will be the event for an update on the challenges at the frontier of electronic materials and related technologies. A great number of distinguished scientists will deliver technical and public lectures at the conference. Each symposium will have keynote/invited talks and contributed oral/poster presentations. A wide range of topics of contemporary importance for science, engineering and technology of materials will be highlighted and provide materials scientists with the opportunity to tackle the global issues.

Forums, Symposia and Plenary Lectures

Forums

F-1. Forum on Materials Engineering for Sustainable Energy and Environment
F-2. Forum on Materials Education Strategies for a Rapidly Changing World
F-3. Forum on Developing a Collaborative Materials Education Network

A. Electronic Materials for Sustainable Society

A-1. Solar Cells and Related Materials
A-2. Design of Advanced Fuel Cell Materials, Devices and Systems
A-3. Rechargeable Batteries
A-4. Energy Materials / Frontiers
A-5. Materials for Living – Environment, Energy, Medicine –
A-6. Alternative Materials Development Utilizing Advanced Nanotechnology
A-7. Environmental Friendly Technologies for Thin Film Growth
A-8. Social Acceptance of Electronic Nanomaterials
A-9. Materials Frontier

B. Electronic Materials and Devices

B-1. Si - LSI - Related Materials, Processes and Characterization Technology
B-2. Wide Bandgap Semiconductors
B-3. Photocatalysis, Nanostructural Materials
B-4. Processing and Properties of Advanced Superconducting Materials
B-5. Fabrication and Properties of Oxide Thin Films and Composites
B-6. Materials for Spintronics
B-7. MEMS / NEMS and MicroTAS
B-8. Diamond and Related Materials and its Applications
B-9. Photonic and Plasmonic Materials
B-10. Nano Carbon Materials (Graphene, Carbon Nanotubes, and Fullerenes)

C. Advanced Materials for Next - Generation Electronics

C-1. Organic Nano - Materials with Flexible Structure and Devices
C-2. Self - Organized Materials and Their Functions
C-3. Advanced Ferroic Materials : Processing, Characterization and Device Application
C-4. Green Micro Energy Management Systems
C-5. Electroactive Polymer Actuators, Sensors and Energy Harvestors
C-6. Next-Generation Conjugated Materials with Super Hierarchical Structures
C-7. Biointerfaces and Bioelectronics
C-8. Frontier of Nano-Materials Based on Advanced Plasma Technologies
C-9. Novel Thermoelectric Materials – Beyond Conventional Design Rules –
C-10. Frontier Surface Technology for Electronic Materials and New Advancements

D. Modeling, Fabrication, Processing and Evaluation of Advanced Electronic Materials

D-1. Biomaterials and Biomimetic Materials
D-2. Analytical and Assessment Methods (in Materials and Environmental Technologies)
D-3. Innovative Material Technologies Utilizing Ion Beams
D-4. Fluctuation-Induced Plasma Processing of Materials
D-5. Advanced Computational Materials Science and Engineering
D-6. Electric Insulating Materials
D-7. Innovative Imaging Technologies and Applications from Nanometrologies to Bioinstrumentations
D-8. Small Angle X - ray / Neutron Scattering and Related Materials Technology
D-9. Materials Modification and Processing by Quantum Beam Excitations
D-10. Synthesis, Processing, and Characterization of Nanoscale Functional Materials

Plenary Lectures

[PL-1] Carbon Dioxide: a Raw Material for Energy Storage and a Sustainable Development
Jacques Amouroux
Professeur de Génie des Procédés – ENSCP/Université P. et M. Curie (UPMC), France

[PL-2] Recent Advances in New Superconductors and Relevant Functional Materials
Hideo Hosono
Professor, Tokyo Institute of Technology, Japan

[PL-3] Nanoplasmonics: New Ways to Trap and Squeeze Light into Subwavelength Volumes
Teri W. Odom
Professor, Northwestern University, USA

[PL-4] Advances in Nanotechnology and Materials Development in Japan for Issue - driven Innovation
Michiharu Nakamura
President, Japan Science and Technology Agency, Japan

[PL-5] Physics at the Interface - Spintronics and Other Materials
D. D. Sarma
Professor, Indian Institute of Science, India