

TIME SCHEDULE OF ICMR 2013

| | | | |
|----------------|-------|------------------|----------------------|
| Nov.20 Wed. | 8:00 | Registration | |
| | 9:00 | Opening Ceremony | |
| | 9:30 | Invited Lectures | |
| | 11:50 | Lunch Break | |
| | 13:00 | Coffee Break | |
| | 15:20 | Coffee Break | |
| | 15:30 | Coffee Break | |
| | 17:15 | Coffee Break | |
| | 18:00 | Conference Party | |
| Nov.21 Thu. | 8:00 | Registration | |
| | 9:00 | 9:00 | |
| | 12:00 | Lunch Break | |
| | 13:00 | 13:00 | |
| | 15:30 | 15:30 | |
| | 15:45 | 15:45 | |
| Nov.22 Fri. | 8:00 | Registration | |
| | 9:00 | Poster Session | 9:00 Poster Session |
| | 12:00 | Lunch Break | |
| | 13:00 | Poster Session | 13:00 Poster Session |
| | 16:10 | Closing Ceremony | |

Access



Nine domestic flights from Haneda are bound for Akita every day. Five flights by All Nippon Airways, four by Japan Air Lines, each takes about an hour to Akita. Airports in Osaka, Nagoya, and Sapporo are also connected to Akita Airport by several flights per day. Three international flights, operated by Korean Air weekly, arrive in Akita direct from Seoul, Korea. Ground travel is also enjoyable by taking a four-hour bullet train "Super Komachi" from Tokyo Station.

Inquiries should be addressed to

ICMR2013 AKITA
 SMERJ c/o Faculty of Engineering and
 Resource Science, Akita University
 Akita,010-8502 JAPAN
 Tel&Fax : +81-18-889-2439
 E-Mail : icmr@gipc.akita-u.ac.jp
 URL : <http://smerj.ie.akita-u.ac.jp>

The Second Circular with Call for Papers

The Seventh International Conference on Materials Engineering for Resources

ICMR 2013 AKITA

November 20 Wed.–22 Fri., 2013
 Akita View Hotel , Akita City, Japan



Organized by :
 The Society of Materials Engineering for Resources of Japan
 and
 Graduate School of Engineering and Resource Science, Akita University
 and
 Akita University

ICMR 2013 AKITA CALL FOR PAPERS

The conference has inherited an initial concept from the first 1991 conference expressing that "the beneficial integration of separate ideas in various and traditional engineering fields into a new concept could provide sustainable development for human society".

In the forthcoming seventh 2013 conference, following topics will be highlighted in eight sessions including the special program for resource development technology: (1) Strategy of Environment, Resource, and Energy for Sustainable Development (2) Development of New Recycling System for Rare Metals and Rare Earth Metals (3) Construction Materials for Sustainable Development (4) Advanced Materials for Sensors and Information Storage (5) Computer Engineering and Materials Engineering for Resources (6) Biological Effect on Metals including Rare Metals and Rare Earth Metals (7) Processing and Characterization of Functional Materials (8) Earth Science and Resource Development Technology (*Special Sessions of Akita University Leading Program "New Frontier Leader Program for Rare-metals and Resources"*)

Topics in the 7th conference listed above are indicative. Authors are, therefore, allowed to submit papers on other topics when to relate to the main concept of the conference. Accepted communications will be presented in poster form. The proceedings shall be prepared. After discussion at the conference, revised papers can be submitted as the originals for a special issue of International Journal of The Society of Materials Engineering for Resources.

Invited Lecturers

- ◆ Michele Rosano (Curtin University; AUSTRALIA) Industrial Symbiosis Benefits for Materials Engineering and Resources.
- ◆ Akira Otsuki (Curtin University; AUSTRALIA) Characterisation and Beneficiation of Complex Ores for Sustainable Utilisation of Mineral Resources.
- ◆ Timotius Pasang (Auckland University of Technology; NEW ZEALAND) Research on Various Welding Methods on Titanium Alloys for Aircraft Applications: Collaboration between Akita University and AUT.
- ◆ Zhan Chen (Auckland University of Technology; NEW ZEALAND) Friction Stir Lap Welding of Light Alloys.
- ◆ Leon Abelmann (University of Twente; NETHERLANDS) Magnetic 3D Self-Assembly.
- ◆ Fulin Wei (Lanzhou University; CHINA) Investigation on Magnetic Properties of FeCoAlON Films with Stripe Domain Structure.
- ◆ Nikola Kasabov (Auckland University of Technology; NEW ZEALAND) Evolving Spiking Neural Networks for Spatio- and Spectro-Temporal Data.
- ◆ Antonio Rubio (The Polytechnic University of Catalonia; SPAIN) Carbon Nano Tubes Technology: Implications in Computer Memory Systems.
- ◆ Yaopeng Zhang (Donghua University; CHINA) Artificial Silk Materials with Enhanced Mechanical Properties and Controllable Structures.
- ◆ Jerry L. Atwood (University of Missouri; USA) Nanocapsules based on Calixarene, Resorcinarene, and Pyrogallololanes.
- ◆ Alexander S. Kamzin (Ioffe Physical-Technical Institute of the Russian Academy of Science; RUSSIA) Mossbauer Study of FeM (where M=Pt or Co) Thin Films.
- ◆ Robert M. Corn (University of California, Irvine; USA) Nanorings, Nanocubes and Nanochannels for the Directed Self-Assembly and Detection of Nucleic Acids and Proteins.
- ◆ Yuji Doya (Matsubara Construction Co., Ltd; JAPAN) Self-Dumping Pontoon System Utilizing the Versatile Unit Construct Flotation System: A Research for Economical Way of Soils-transportation &-dumping System.

- ◆ Komei Harada (National Institute for Materials Science; JAPAN) New Stage of Resource Risk and GENSO SENRYAKU (Strategic Elements Initiative).
- ◆ Keisuke Ohto (Saga University; JAPAN) Microreactor Extraction System with Macrocylic Host Compounds for Rare Metal Recovery.
- ◆ Sanghun Lee (Tohoku Gakuin University; JAPAN) Imaging Defects in Concrete Structures Using Accumulated SIBIE.
- ◆ Hitoshi Kubota (National Institute of Advanced Industrial Science and Technology; JAPAN) High Frequency Spintronics Devices Driven by Spin Transfer Torque.
- ◆ Yasuhiro Sugawara (Osaka University; JAPAN) Magnetic Force Microscopy Using Ferromagnetic Resonance.
- ◆ Naoya Nishi (Kyoto University; JAPAN) Structure at the Ionic Liquid|Hg Interface Probed by Electrochemistry and Interfacial Spectroscopy.
- ◆ Hiroshi Katagiri (Yamagata University; JAPAN) Azulene-Based Oligomers for Organic Semiconductor Applications.
- ◆ Tetsuo Osa (Tohoku University; JAPAN) Design of Electrode Providing Preparative Stereoselective Synthesis.
- ◆ Hidefumi Asano (Nagoya University; JAPAN) Strain Effect and Applications of Antiferromagnetic Thin Films.
- ◆ Rikio Yokota (Japan Aerospace Exploration Agency; JAPAN) Novel Asymmetric Aromatic Polyimide Having Excellent Space Environmental Stability and Application for the World First Solar Sail, IKAROS Membrane.
- ◆ Masaya Mitsuishi (Tohoku University; JAPAN) Ultrathin Polymer Films Organized for Luminescence Oxygen Sensor Application.

Special Sessions of Akita University Leading Program "New Frontier Leader Program for Rare-metals and Resources"

Topic: Earth Science and Resource Development Technology

- ◆ Scott A. Wood (North Dakota State University; USA) Hydrothermal Mass Transfer of the REE: Insights from Experimental Studies and Active Geothermal Systems.
- ◆ Itumeleng Tshoganetso Seitshiro (Botswana International University of Science and Technology; BOTSWANA) Slurry Pipeline Design of Multi-sized Solids: Application of Innovated Models.
- ◆ Koya Suto (Australian Society of Exploration Geophysicists; AUSTRALIA) Ground: an Essential but Often Unrecognised Resource-Geophysics to Evaluate its Properties.
- ◆ Hossein Aminian (FiMatCon; CANADA) Recycling of Rare Earth Metals: Technologies and Challenges.
- ◆ Jan Rosenkranz (Lulea University of Technology; SWEDEN) Sustainable Processing of Mineral Resources.
- ◆ Erkan Topal (Curtin University; AUSTRALIA) Optimal Mine Waste Rock Management.

MODE OF PRESENTATION

The technical program consists of three kinds of session:

- ◆ Plenary (invited) lectures; 35 min-lecture including 5 min discussion.
- ◆ Keynote (invited) lectures; 25 min-lecture including 5 min discussion.
- ◆ Poster sessions with short speech; 3 min-lecture each and poster-site discussion.

The official language will be English

AWARD

Two outstanding contributions will be awarded by ICMR2013 awarding committee.

- International Award of Material Engineering for Resources
- Excellent Paper Award of Poster Sessions

TIME TABLE

Poster session applicant

- ◆ April 15, 2013 : Due date for submission of title and abstract
 - ◆ April 30, 2013 : Notification of acceptance for Presentation
 - ◆ May 31, 2013 : Full paper submission for review
 - ◆ August 31, 2013 : Final manuscript due for the Proceedings Volume
- #### Invited Lecturer
- ◆ August 31, 2013 : Final manuscript due for the Proceedings Volume

See "preparation of the Camera-Ready Manuscript of ICMR 2013" that can be taken from Web site: <http://smerj.ie.akita-u.ac.jp/icmr/icmr.htm>

Manuscript for Proceedings Volume should be sent to:

Prof. Mitsutoshi Jikei
Chairperson of Programming Committee ICMR 2013, c/o Faculty of Engineering and Resource Science, Akita University, Akita 010-8502 JAPAN
E-mail: icmr@gipc.akita-u.ac.jp

REGISTRATION FEE

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

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

Payment must be completed in Japanese Yen (¥) by Bank Transfer by 30 September, 2013

- ◆ Bank transfer : all cost at transmitter's charge
- ◆ Bank Name : Akita Bank, Tegata Branch
- ◆ Account Name : ICMR2013, Account Number : 730991
- ◆ Bank Address : 160-1 Tegata-Yamazaki, Akita, 010-0854 Japan

ORGANIZING COMMITTEE

Honorary Chairpersons :

K. Otsuka (Prof. Emeritus of Akita Univ.)
Y. Nagai (Prof. Emeritus of Akita Pref. Univ.)
N. Yoshimura (President of Akita Univ.)

General Chairperson :

F. Hamada (Chairman of SMER Japan, Akita Univ.)

Executive Committee

Chairperson : A. Shibayama (Akita Univ.)

Finance Committee

Chairperson : A. Shibayama (Akita Univ.)

Programming Committee

Chairperson : M. Jikei (Akita Univ.)

Steering Committee

Chairperson : Y. Shibuya (Akita Univ.)

Awarding Committee

Chairperson : H. Tamamoto (Akita Univ.)

Committee Members :

S. Aso (Akita Univ.), T. Fujita (Univ. Tokyo), T. Goto (Akita Univ.), M. Hara (Akita Univ.), R. Igarashi (Akita Univ.), A. Imai (Akita Univ.), K. Imano (Akita Univ.), S. Ishio (Akita Univ.), H. Itoh (Akita Univ.), T. Iwashita (Former Yabashi Kogyo), M. Kagaya (Akita Univ.), H. Kai (DOWA Holdings), S. Kamata (Akita Pref.), O. Kamiya (Akita Univ.), Y. Kanda (Former Yamagata Univ.), I. Kojima (Akita Pref. Univ.), S. Kyono (Mitsubishi Materials), T. Mizuta (Akita Univ.), S. Nakata (Akita Univ.), A. Narita (Akita Natl. Col. of Tech.), M. Nishida (Akita Univ.), T. Ogasawara (Akita Pref. Univ.), N. Ogawa (Akita Univ.), Y. Ohta (Fukuoka Inst. of Tech.), H. Saito (Akita Univ.), H. Sato (Akita Univ.), T. Sato (Akita Univ.), H. Sekine (Former Tohoku Univ.), F. Sugimoto (Akita Univ.), T. Sugiyama (Akita Univ.), M. Suzuki (Akita Univ.), H. Taguchi (TDK), M. Taguchi (Akita Univ.), Y. Takahashi (Akita Univ.), A. Tanata (Former Ueda Sekkai)