

- ◆ 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 Macrocyclic 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