ICMR 2017 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 eighth 2017 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)Strategy of Life Science for Sustainable Development(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 8th 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

- Le Anh Tuan (Vietnam National University -Ho Chi Minh City-University of Technology; VIETNAM) The Application of Fly Ash from Thermal Power Plant on Geopolymer Materials.
- Thomas A. BIER (TU Bergakademie Freiberg: GERMANY) Use of functionalized building materials for sustainable construction and repair -Overview and examples for various applications.
- Pratyay Basak (CSIR-Indian Institute of Chemical Technology; INDIA) Fused Pyrrole Core: A New Class of Quadrupolar Organic Moieties as Potential Resistive Memory Elements.
- Jong-Ching Wu (National Changhua University of Education; TAIWAN) Nanofabrication and Application of Magnetic Tunnel Junctions.
- Antonio Rubio (Universitat Politècnica de Catalunya; SPAIN) New paradigm over the eDRAM configuration for new nanometric electronics era.
- Hyung Joon Cha (POSTECH University; KOREA) Mussel glue proteins for innovative biomedical applications.
- Yu-Chen Hu (National Tsing-Hua University; TAIWAN) CRISPR technology for cell manipulation and production.
- Robert M. Corn (University of California-Irvine; USA) Single Nanoparticle SPR Imaging Biosensing.
- Jin-Min Lin (Tsinghua University; CHINA) Controlled Assembly of Heterotypic Cells in a Core-Shell Scaffold: Organ in a Droplet.
- Zhan Chen (Auckland University of Technology; NEW ZEALAND) Solidification of CoCrMo alloy during selective laser melting.
- Timotius Pasang (Auckland University of Technology; NEW ZEALAND) Welding of Titanium: comparison between CP Ti, alpha/ beta alloy and beta alloy.
- Sivaperuman Kalainathan (VIT University; INDIA) Growth and Characterization of Scintillator Organic Single Crystal for Fast Neutron Detection.
- Brigitte Voit (Leibniz Institute of Polymer Research Dresden (IPF) and TU Dresden; GERMANY) Highly aromatic polymer architectures