

CALL FOR PAPERS and ADVANCE ANNOUNCEMENT



Date : **Oct.28-Nov.1,2012**

Location : **Okinawa Convention Center**
4-3-1 Mashiki, Ginowan City, Okinawa, Japan

Conference Chair : **Teruo Fujii**
IIS, University of Tokyo, JAPAN



The Sixteenth International Conference on Miniaturized Systems for Chemistry and Life Sciences (μ TAS2012) will be held at the Okinawa Convention Center in Okinawa, Japan from October 28 to November 1, 2012.

μ TAS 2012 continues a series of Conferences that are the premier forum for reporting and exchanging research results in microfluidics, microfabrication, nanotechnology, integration, materials and surfaces, analysis and synthesis, and detection technologies for life science and chemistry. The Conference offers plenary talks as well as contributed oral presentations and posters selected from submitted abstracts. Following Tokyo in 2006, Paris in 2007, San Diego in 2008, Jeju in 2009, Groningen in 2010, and Seattle in 2011, we anticipate over 900 international scientists and professionals engaged in research on and in the use of integrated microsystems and nanotechnology for chemistry and life sciences.

IMPORTANT DATES

Abstract Deadline : April 15, 2012

Author Notification : June 20, 2012

Manuscript Deadline : July 23, 2012

TOPICS

Microfluidics and Nanofluidics

- Micro / Nano Liquid Handling
- Micro / Nano Flow Measurement
- Fluid Mechanics / Modelling
- Multi-Phase & Digital Microfluidics
- Multiscale / Integrative Microfluidics

Imaging and Detection Technologies

- Visualization
- Optical / Optofluidic
- Electrochemical
- Mass Spectrometry

Life Science Applications

- Omics Technologies
- Drug Development / Analysis
- Cell Culture / Handling / Analysis
- Tissue Engineering
- Implantable Devices

Integrated Sample-to-Answer Systems

- Point-of-Care Testing
- Clinical Diagnostics
- Forensics
- Integrated Analytical Systems

Analysis and Synthesis Applications

- Separation Science
- Microreactors
- Flow Chemistry / Synthesis
- In-Line Analysis / Process Control
- Integrated Process Systems

Application to Green Technologies

- Fuel Cells / Solar Cells
- Low Carbon/Emission Technologies
- Water / Air / Soil Management
- Building / Architecture
- Other Energy / Power Devices

MEMS and NEMS Technologies

- Micro- & Nanofabrication
- Materials and Surface Modification
- Microfluidic Components and Packaging
- New Device Materials
- Integration Technologies

Other Applications

- Agriculture/Fishery/Forestry
- Food & Nutrition
- Environmental
- Systems/Synthetic Biology
- Devices for Better Quality-of-Life (QOL)

Nanotechnologies

- Nanoengineering
- Molecular Systems
- Nanobiotechnology
- Nanoassembly
- Nanostructured Materials

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