USM2013 will provide a forum for academic and industrial leaders, both current and tomorrow, to discuss and exchange their findings and ideas to develop a new methodology using a **Ultra Slow Muon Microscope**, which contributes to exploring great diverse phenomena and to designing new materials.

The Ultra Slow Muon Microscope consists of two novel muon sources: a Ultra Slow Muon for depth profiling from a surface with nanometer resolution and a micro beam for probing inside of a material with resolution of several micrometer. A new spatial imaging method would be a creative tool to explore near surface and interfaces, which plays a key role in material and life sciences. In order to realize this, participation from a variety of research fields so far unfamiliar with muon probe are invited.

**Preschool:**
8 August 2013 at Kunibiki Messe

**Topics:**
- Ultra Slow Muon Production
  - Production target, Beam technology & Laser
- Fundamental Physics
- Materials Research
  - Magnetism, Superconductivity, Spintronics, & Butterfly Materials
- Chemistry
  - Catalyst & Chemical Reactions
- Surface/Interface Science & Nanotechnology
- Biology
- Hydrogen Science

**Important date:**
- Abstract submission: 17 May, 2013
- Early registration: 17 May, 2013

**Organizers:**
**Chair Person**
Torikai, E. (Univ. Yamanashi)
Program Committee Chair
Nishida, N. (Toyota Physical and Chemical Research Institute)
Publication Committee Chair
Higemoto, W. (JAEA)
Local Committee Chair
Inoue, K. (Hiroshima Univ.)

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**Venue:**
Kunibiki Messe (Shimane Prefectural Convention Center) at Matsue in Japan