Call for Papers

KOBE JAPAN 2009

18 ep2ds 14 mss

International Conference on Electronic Properties of Two-Dimensional Systems and Modulated Semiconductor Structures

EP2DS-18/MSS-14

Kobe International Conference Center, Kobe, Japan
July 19-24, 2009
http://ep2ds-mss.riken.jp/index.shtml

Deadline for abstracts
March 7, 2009

Committee Chairs

EP2DS-18

Organizing Committee	S. Tarucha (chair)
	K. Kono (vice-chair)
Program Committee	S. Katsumoto (chair)

MSS-14

Organizing Committee	H. Ohno (chair)
	J. C. Woo (vice-chair)
	J. Yoshino (vice-chair)
Program Committee	K. Hirakawa (chair)

The 18th International Conference on Electronic Properties of Two-Dimensional Systems (EP2DS-18) and **the 14th International Conference on Modulated Semiconductor structures (MSS-14)** will be jointly held at Kobe International Conference Center, Kobe, Japan, July 19 - 24, 2009. This will be the 2009 edition of the biennial conference series that are now established as the major events in the research fields of modulated semiconductors and low-dimensional electron systems.

Conference Scope for EP2DS-18

EP2DS traditionally covers the fundamental physics as well as transport, optical and other properties of electronic states in low dimensional systems. Now the low-dimensional family is expanding to novel systems such as nanotube, graphene, NEMS, and others.

- Electronic, optical and magnetic properties of low-dimensional systems
- Semiconductor heterostructures, superlattices, quantum wires, and quantum dots
- Quantum Hall effects
- Spin phenomena in nanostructures
- Novel low-dimensional systems, including graphene, carbon nanotubes, nanowires, NEMS, biological and molecular structures
- Physics and devices for quantum information processing
- Organic semiconductors and hybrid structures
- Metal-insulator transitions
- Novel probes, experimental techniques

Conference Scope for MSS-14

MSS addresses the synthesis, processing and applications of modulated materials. With an initial focus on semiconductor hetero- and nanostructures, MSS now also encompasses the broader range of hybrid, modulated organic, spintronic, and biologically-based modulated structures.

- Advances in growth and processing for modulated structures
- Nanowires and dots: electronic and optical properties
- Nanophotonic structures
- Spintronics and spin-effects in nanostructures
- Physics and devices for quantum information processing
- Heterostructures and superlattices
- Organic semiconductors and hybrid structures
- Novel modulated structures, including carbon nanotubes, graphene, molecular structures, NEMS, and bio-based structures
- Novel probing and fabrication techniques