

# Surfaces and Interfaces of Thin Films, Multilayers and Nano-composites

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## Call for Papers

Recent material nano-technologies have brought possibilities of fabrication of nano-composites, ultra-thin and multilayered thin films, as well as nano-composites. In the multilayers and nano-composites the interfaces and grain-boundaries should give larger functional factors than inner parts of the layers and grains. It is difficult to understand grain-boundary roles due to its complexity. We discuss, first, fabrication of the multilayers and nano-composites. The ultimate goal is to elucidate commonarities and differences between the multilayer interfaces and nano-composite grain-boundaries to understand intricate roles of grain-boundaries.

### Invited Speakers (tentative)

**Jacobo Santamaria**, Universidad Complutense, Spain

**Ulrich Habermeier**, Science Consulting International, Germany

**Josep Nogues**, Catalan Inst. of Nanosci. and Nanotech., Spain

**Axel Hoffmann**, Argonne National Lab, USA

**Alex Tovstolytkin**, Inst. of Magnetism, Ukraine

### Organizers

**Satoru Kaneko** (KISTEC)  
 satoru@kanagawa-iri.jp

**Paolo Mele** (Muroran Inst. Tech.)

**Takashi Nakajima**  
 (Tokyo University of Science)

**Katherine Develos-Bagarinao** (AIST)

**Alejandro G. Roca**  
 (Catalan Inst. of Nanosci. and Nanotech.)

**Elvira Fantechi** (Universita di Pisa)

**Tamio Endo** (Sagamihara Surface Lab)

## Topics

1

NOVEL TECHNOLOGIES TO  
 FABRICATE NANO-  
 MATERIALS

2

OXIDE, CARBONACEOUS,  
 FLEXIBLE AND MECHANICAL  
 MATERIALS

3

WIDE CATEGORIES OF  
 FUNCTIONS  
 (SEMICONDUCTING,  
 MAGNETIC, FERROELECTRIC,  
 THERMOELECTRIC, OPTICAL)

4

RELATIONS BETWEEN  
 STRUCTURES AND  
 PROPERTIES OF NANO-  
 MATERIALS