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## MOEMS-MEMS Micro & Nanofabrication 2007

### MEMS/MOEMS COMPONENTS AND THEIR APPLICATIONS IV SPECIAL FOCUS TOPICS: TRANSDUCERS AT THE MICRO-NANO INTERFACE (MF03)

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During the last several years the micro-nano interface has become an important enabling component for the integration of nanoscale materials and structures into practical/commercial devices. From simple ohmic contacts to nanoscale materials to fundamental investigations of the electrical, mechanical, thermal, optical, and other material properties of these materials the micro-nano interface has played a dominant role. Integration of nanomaterials into microelectro-mechanical structures has created a wealth of new transducer designs and materials studies. Exploiting the unique properties of carbon nanotubes, metallic nanoparticles and semiconducting nanowires, through their integration into high performance sensors and actuators is being actively pursued by several research groups and commercial organizations around the world. This conference will focus on exploring the latest developments in this area by bringing together some of the most exciting research and researchers in both MEMS and Nanotechnology fields via this focused topics conference.

Papers are therefore solicited on the specific topics listed below and other topics appropriate to this conference.

- optical studies and devices at the micro-nano interface
- micro-Raman spectroscopy, fluorescence studies on nanomaterials, etc.
- fundamental investigations at the micro-nano interface
- physics, chemistry and biology at the micro-nano interface
- microelectromechanical systems (MEMS), nanoelectromechanical systems (NEMS), and nanomaterials
- integration of nanoscale materials and structure using bottom-up and top-down methods
- investigating nanoscale materials and structures using MEMS
- MEMS sensors and actuators incorporating nanoscale materials and structures
- biosensors applications of nanoscale materials and structures.