



# 4th International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale

27-31 October 2014, Taipei, Taiwan

## First Announcement

**3M-NANO** is the annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale, which will be held 2014 in Taipei, Taiwan. **The ultimate ambition of this conference series is to bridge the gap between nanosciences and engineering sciences**, aiming at emerging market and technology opportunities. The advanced technologies for manipulation, manufacturing and measurement on the nanoscale promise novel revolutionary products and methods in numerous areas of application. Scientists working in research fields related to 3M-NANO topics are invited to submit papers. Selected outstanding papers will be recommended for publication in relevant journals cited by SCI or EI indexed.

### Organized by:

**Academia Sinica, Taiwan**  
**National Taiwan University, Taipei, Taiwan**  
**Industrial Technology Research Institute, Taiwan**  
**IEEE Nanotechnology Council (technically sponsored)**  
**Changchun University of Science and Technology, China**  
**Institute for Information Technology, Oldenburg, Germany**  
**University of Oldenburg, Germany**

### Conference topics include, but are not limited to

Nanomanipulation and nanoassembly  
 Nanomaterials and nanocharacterization  
 Nanohandling robots and systems  
 Nanorobotics  
 Nanopositioning systems  
 Nanosensors  
 AFM-based nanohandling  
 Nanofabrication processes and systems  
 Control issues in nanohandling  
 Process automation on the nanoscale  
 Micro-to-nano-scale bridging  
 Micro-Nano integration  
 Modeling of nanoscale effects  
 Nanohandling applications

Self-assembly on the nanoscale  
 Error detection in nanomanufacturing  
 Nanometrology  
 Precision lasers for nanometrology  
 Quantum dots, graphene  
 Nanowires, nanotubes, nanohelices  
 Nanoelectronics and nanomagnetism  
 Nanophotonics and photonic crystals  
 Nanomechanics and nanomechatronics  
 NEMS applications  
 Nanopackaging  
 Nanofluidics  
 Nanomedical devices and applications  
 Bio-Nano devices and applications

**Social events:** 3M-NANO conferences aim at supporting the nanohandling research community, encouraging long-term partnerships and collaborative research activities. Various social events and tours will be organized.

**Venue:** Taipei, the political, economic, and cultural center of Taiwan, is the island's most populous city. Taipei originated as a small trading port two hundred years ago before becoming a sprawling metropolis. Must-see sights in Taipei include the ancient like 10th-century artwork at the National Palace Museum, and the strikingly modern like Taipei 101, the world's tallest building from 2004-2010. Famous delicious food ranges from fermented stinky tofu and amazing dumplings to bamboo charcoal peanuts. Visit and enjoy Taipei along with 3M-NANO 2014!



### Important Dates

**Full paper submission**                      **1 June 2014**  
**Proposals for special sessions**           **1 June 2014**

[www.3M-NANO.org](http://www.3M-NANO.org)

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