



# The Second International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale

## 29 August – 1 September 2012, Xi'an, China

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### 3M-NANO logo design:

cm-logic (DE)

**3M-NANO** is the annual International Conference on Manipulation, Manufacturing and Measurement on the Nanoscale, which will be held for the second time in Xi'an, China. **The ultimate ambition of this new conference series is to bridge the gap between nanosciences and engineering sciences**, aiming at emerging market and technology opportunities. The advanced technologies for automated manipulation, manufacturing and measurement on the nanoscale promise novel revolutionary products and methods in numerous areas of application. Scientists working in different research fields related to 3M-NANO topics are invited to submit papers for all aspects of theories, technologies and applications. **All 3M-NANO papers will be recommended for free-of-charge publication in indexed International Journals.**

### Sponsors:

**National Natural Science Foundation of China**  
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### Topics:

Specific topics include, but are not limited to

Nanomanipulation and nanoassembly	Down-scaling of manufacturing systems
Nanomaterials and nanocharacterization	Self-assembly on the nanoscale
Nanohandling robots and systems	Optical nanometrology
Nanorobotics	Nanometrology for MEMS/NEMS
Nanopositioning systems	Precision lasers for nanometrology
Nanosensors	Quantum dots, graphene
Nanohandling systems in SEM	Nanowires, nanotubes, nanohelices
AFM-based nanohandling	Nanoelectronics and nanomagnetism
Nanofabrication processes and systems	Nanophotonics and photonic crystals
Sensor feedback from the nanoscale	Nanomechanics and nanomechanics
Control issues in nanohandling	NEMS applications
Process automation on the nanoscale	Nanopackaging
Micro-to-nano-scale bridging	Nanofluidics
Micro-Nano integration	Nanomaterials and nanomedicine
Modeling of nanoscale effects	Bio-Nano devices and applications

**Opening workshop** with high-profile invited talks on selected topics in manipulation, manufacturing and measurement on the nanoscale will be arranged on the first conference day. **Workshop attendance is covered by 3M-NANO registration fee.**

**Social events:** 3M-NANO aims at encouraging long-term partnerships and collaborative activities between experts in nanosciences and in engineering sciences. **Get-together events will be organized by 3M-NANO as part of this effort.**

**Venue:** Xi'an shares fame with Athens, Cairo, and Rome as one of the major ancient civilization capitals. During 3100 year development, 13 Chinese dynasties placed their capitals here. **The Terracotta Warriors and Horses are praised as the eighth major miracle of the world.** Mausoleum of Emperor Qin Shi Huang is on the World Heritage List, and the City Wall is the largest Ming Dynasty castle in the world.

### Important Dates

<b>Full paper submission</b>	<b>01. March 2012</b>
<b>Proposals for special sessions (5-6 papers)</b>	<b>01. March 2012</b>
<b>Notification of acceptance</b>	<b>15. April 2012</b>
<b>Final paper submission</b>	<b>15. May 2012</b>
<b>Advanced registration</b>	<b>15. May 2012</b>
<b>Registration for accepted papers</b>	<b>15. May 2012</b>



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