

The International Journal of
**ENGINEERING
EDUCATION**

**CALL FOR PAPERS
SPECIAL ISSUE ON**

CURRENT TRENDS IN NANOTECHNOLOGY EDUCATION

Contributions are invited for a special issue of the International Journal of Engineering Education (IJEE) on Current Trends in Nanotechnology Education.

Nanotechnology utilizes the ability to manipulate and assemble matter on an atomic and molecular scale to create materials and devices with unprecedented properties. Recently, nanotechnology education has been evolving rapidly to keep pace with accelerating technological innovation. With its interdisciplinary nature, nanotechnology education involves different fields such as nanofabrication, nanomechanics, nanomaterials, nanophotonics, nanoelectronics, nanofluidics, Nano-Electro-Mechanical Systems (NEMS), and computations at the nanoscale.

This special issue is intended to explore emerging issues and applications of nanotechnology education in order to identify current trends in this area. Example topics may include, but are limited to:

- Certificate programs and degrees in nanotechnology education
- Integration of nanotechnology into engineering curriculum
- Implementation examples and issues
- Courseware development
- Evaluation and assessment
- Good practice examples
- Industry-university (or university-university) partnerships
- Curriculum development in nanotechnology education
- Instructional design for nanotechnology education
- Marketing/promoting nanotechnology education
- Pedagogical issues
- Research perspectives for nanotechnology education
- Simulations and tools
- Societal and ethical issues
- Virtual (or remote) universities, classrooms, and laboratories
- Education and outreach
- K-12 nanotechnology education

Important Deadlines:

Extended abstract (around 2 pages)	September 30, 2011
Notification of acceptance	October 20, 2011
Submission of manuscripts	December 15, 2011
Reviewers' feedback	January 30, 2012
Submission of final manuscripts	March 1, 2012

Submissions are to be sent by e-mail in MSWord to Wei-Fan Chen at weifan@psu.edu with copy to Tony Jun Huang at junhuang@engr.psu.edu

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General information and guidelines are available at the IJEE Web site: <http://www.ijee.ie/>