



ISNM2005

The 3rd International Symposium on Nanomanufacturing

November 3-5, 2005

The University of Cyprus - CYPRUS

2nd CALL FOR PAPERS

DEADLINE EXTENSION FOR ABSTRACT SUBMISSION June 10, 2005

The 3rd International Symposium on Nanomanufacturing (ISNM 2005) will be held by the University of Cyprus in Limassol, Cyprus, on November 3-5, 2005. The Symposium follows the highly successful ISNM 2003 at MIT in the USA and ISNM 2004 at KAIST in Korea. ISNM 2005 emerges as the main global forum to address manufacturing issues at the nanoscale, and is expected to draw hundreds of engineers, researchers, educators and entrepreneurs from industry, academia and government, equipment vendors, suppliers and students. **The objectives are to address current and future challenges and advances in nanomanufacturing, to bring together the manufacturing and the nanotechnology communities, and to interface them with researchers, resources, industry and support mechanisms in Europe, promoting international partnerships and addressing educational and socio-economic aspects of nanomanufacturing.**

Program

The program of ISNM 2005 will include plenary lectures and technical sessions in a dual-track scheme over three days, along with a poster display and an industrial exhibit. This will be concluded by round-table discussions in future nanomanufacturing research directions, educational initiatives, collaborations with industry and joint international programs. Social functions will include a welcome reception, conference banquet, off-site dinner and luncheon/tour of the Paphos historic area, combined with customized University lab and industry tours. **The ISNM 2005 language is English.**

Nanomanufacturing

Nanomanufacturing is the **nanoscale-controlled transformation of materials, processing and information into goods for the satisfaction of society needs.** Manufacturing must deal with manufacturing processes and systems to produce goods in varying volumes with high quality, fast production rates, robustness and low cost. These attributes call specifically for fundamental manufacturing research in the scalability of processes and products, inherently integrated during all phases of the product life cycle. In addition, the environmental, economic, social, legal and regulatory implications of large-scale nanomanufacturing technology transfer and production, along with the role of international collaboration, have never been systematically considered in conjunction with technical research. ISNM 2005 will address basic research, education, dissemination and cooperation issues related to the manufacturing of nanoproducts to accelerate the introduction of enabling and disruptive nanotechnologies as viable industrial products and processes.

The venue of ISNM 2005 in Cyprus is expected to attract the European nanomanufacturing industry, with traditional strengths in metrology instrumentation and manufacturing equipment, along with nanocomponent providers and integrators. The conference will also invite European Commission representatives, to present collaboration opportunities for international researchers in Framework Programmes 6 and 7, the Marie Curie actions for human resources and mobility etc. Further participation is expected by the Cyprus government as well as international industry, professional societies and federal agencies.

Important Dates

Extended abstract submission	June 10, 2005
Notification of acceptance	July 04, 2005
Final manuscript	August 29, 2005
Advance registration	September 30, 2005
Hotel registration	September 30, 2005
Symposium Proceedings	November 2005

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Sponsorship

Potential sponsors are kindly invited to support ISNM 2005 in a variety of ways, including:

- sponsor a named keynote lecture in a theme of their interest
- support expenses of their personnel presenting a paper or poster
- sponsor a named reception, coffee break, luncheon, dinner, banquet etc
- subsidize participation of young researchers, students, a career fair etc
- sponsor a named technical or social event such as industry/lab tours etc.
- subsidize conference proceedings or memorabilia with logo
- sponsor a named Best Poster competition prize or display a booth in the exhibition (see below)



Exhibition

During ISNM 2005, an exhibition for nanomanufacturing equipment, devices, services and programs is planned. This will be an excellent opportunity for nanomanufacturing companies to introduce their latest developments to world-wide scientists and engineers. Commercial companies, institutes, and universities are welcome. All exhibitors at the symposium will be listed in the ISNM 2005 Final Program and the web site.

Submission of Extended Abstracts

Prospective authors are invited to submit extended one-page abstracts in English by June 10, 2005. Instructions for submission of extended abstracts are provided on the conference web site (www.isnm2005.org). All extended abstracts will be peer reviewed by at least three independent reviewers, and those accepted will be assigned for presentation to either an oral or poster session. Manuscripts of full papers will be invited for publication in the ISNM 2005 Proceedings.

Topics

Original contributions are sought in all research and education areas of ISNM 2005 related to nanomanufacturing, including but not limited to:



Nanomaterial production and integration

2D patterning by beams, probes, imprinting etc.

3D templating and scaffolding

Bottom-up directed/self-assembly

Deposition, etching, soft lithography

Metrology, sensing and characterization

Manipulation and actuation

Instrumentation, tooling, equipment

Modeling and simulation -fluidics, energetics etc.

Design, optimization and control

NEMS and MEMS nanomanufacturing

Biomimetics and biomanufacturing

Biomedical devices and tissue engineering

Biological and chemical nanosensors

Health, safety and environmental aspects

Socio-economic aspects of nanomanufacturing

Nanomanufacturing in industry

Nanomanufacturing education

Traveling to Cyprus

Cyprus is located in the Eastern Mediterranean sea, and can be reached by several major international airlines from European or Middle East gateway cities. From North America, travellers can break up the journey in the European city of their choice, or elect to keep connection time to a minimum. Popular gateways include London, Paris, Amsterdam, Athens, Frankfurt, Zurich, Helsinki, Rome etc. From Asia, travellers can stop at Dubai, Haifa, Cairo, Beirut etc. Cyprus Airways provides regular daily flights from many major European and Middle Eastern gateways to the airports of Larnaca or Pafos in Cyprus.

About Cyprus

An island of legends that basks year-round in the light of the warm Mediterranean sun. A storied past 10,000 years long has seen civilizations come and go and the likes of everyone from Alexander the Great to Cleopatra stake their claim here - but then, people do tend to get possessive when faced with such beauty. Aphrodite made her home in Cyprus, and travellers throughout antiquity came here just to pay her tribute.

Today, Cyprus is a modern country that effortlessly marries European culture with ancient enchantment. Here you will discover a compact world of alluring beaches and fragrant mountain peaks, vineyards studded with olive trees and ancient ruins that stir the imagination, citrus groves and old stone villages where sweet wine flows as freely as conversations at the local café. A carefree place where a sense of timelessness is magnified by the kindness of its people.

Please find additional information for your interests at: <http://www.cyprustourism.org/>

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