

CALL FOR PAPERS

IIAS - 2008

4th International Symposium

on

Nano-Technology, Nano-Biomimicry and Biomimetic Engineering

24th July – 30th July, 2008 Baden-Baden, Germany

Chairman

Dr. Salvatore Santoli, INT – International Nanobiological Testbed Ltd.

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Papers are invited for presentation at a Special Focus Symposium on Theory and Applications of Nano-Technology, Nano-Biomimicry and Biomimetics, which will be part of the 20th International Conference on Systems Research, Informatics and Cybernetics, to be held **July 24 – July 30, 2008**, in Baden-Baden, Germany. Submissions should deal with one or more of the following areas in the fields of Nanoscience and Nanotechnology

- **Applications of NanoBio-Systems in Ecology and Environmental Sciences**
- **Biomimetic Autonomous Robotic Systems**
- **Biomimicry and Biomimetic Design**
- **Communication and Cooperation of Nanotech Biosystems**
- **Distributed Intelligence in BioMimetic Systems**
- **Information and Energy processing in Nanotech Biosystems**
- **Interactive Nano Automata**
- **Micro/Nanotechnology Applications in Health, Healing and Medicine**
- **Mobile Nano-Automata and Biosystems**
- **Modeling and Simulation of Micro/Nano Systems and Processes**
- **Molecular Design and Machinery**
- **Multifunctional Nanomaterials**
- **Micromechanics**
- **Nanoelectronics including Molecular Electronics and Nanomagnetics**
- **Nano-optics and nanophotonics**
- **Nanobiotechnology and Nanomedicine**
- **Nanotech (Cellular) Automata**
- **Nanotech Biomedical Applications**
- **Nanoengineering and Microengineering**
- **Nanofabrication and Nanomanufacturing**
- **Nano-structures (Nanocrystals, Nanotubes, Nanowires, Nano-layers/ Nano-membranes, etc.) for Fuel Cell Applications (Hydrogen Absorption)**
- **Propulsion of NanoAutomata and BioMimetic Systems**
- **Remote Control and Guidance of Nanotech Biosystems**
- **Self-Adaptive Autonomous NanoBiomimetic Systems**
- **Shape Control in Nanosystems**
- **Spintronics (Metallic, Semiconductor and Carbon Nanotube/ Nanotube Network-based) including Quantum computing**
- **Synergetics in Nanotech BioSystems**

Papers presented will be published in the special volume of the Proceedings devoted to the symposium; best papers in the opinion of the Honorary Advisory Board will be proposed for publication, possibly in an expanded form, in one of the leading journals specialized in Nanoscience and Nanotechnology

The INT – International Nanobiological Testbed Ltd. (London), according to its mission of developing laboratory results in Nanoscience and Nanotechnology into practical industrial processes,

compounds, devices and systems, would particularly welcome papers featuring subjects and perspectives fitting that development

The Paper Submission Guidelines, the Copyright Transfer Form and the Conference Registration Form are available at the Home Page of the IIAS at: <http://www.iias.edu>

Paper Proposals/Abstracts should be submitted as soon as possible but not later than **April 15, 2008**, preferably as Word version through e-mail attachment. All submitted papers will be refereed. Those selected will be scheduled for presentation at the symposium and published in the Conference Proceedings as mentioned above. A *Notification of Acceptance* will be sent to Authors not later than **April 25, 2008**. The camera-ready full papers, not to exceed 5 single-spaced typed pages should be submitted with photo-ready copies of artwork and with relevant diskettes by **June 3rd, 2008** to Dr. Salvatore Santoli and Prof. George E. Lasker at the addresses below. The full papers should also be transmitted electronically in MS Word format to

Dr. Salvatore Santoli	and to:	Prof. George E. Lasker,
Symposium Chairman		Conference Chairman,
INT – International Nanobiological Testbed Ltd.	Intl. Institute for Advanced Studies-IIAS	P.O. Box 3010
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The 20th International Conference on Systems Research, Informatics and Cybernetics is also the 28th Annual Meeting of the IIAS - International Institute for Advanced Studies in Systems Research and Cybernetics.

The information update about this Conference is available at:

<http://www.iias.edu>