

Tuesday, August 2, 2005

9:00 – 18:00

Hall H

Special Focus Symposium on Nanotechnology and Nanoscience

Chair: Dr. S. Santoli, Director,
INT - International Nanobiological Testbed Ltd., (London), UK
Via A. Zotti 86, I-00121 Rome, Italy

Introduction and Welcoming Address

by Dr. S. Santoli, INT - International Nanobiological Testbed Ltd., London, UK

Photoinduced Treatment of the Large-Sized Nanocrystallites

by Prof. Ivan V. Kityk, University of Czestochowa, Poland

Mechanical Properties on the Nanoscale

by Prof. D. J. Dunstan, University of London, U.K.

Computer Architectures and Electron Transport Theory on Molecular Electronics (tutorial)

by Dr. Robert Stadler, Technical University of Denmark, Lyngby, Denmark

Reversible Logic and Electron Waveguide Devices

by Dr. E. Forsberg, Royal Institute of Technology (KTH), Kista, Sweden

LUNCH BREAK 12:00 – 14:00

Design Consideration in Magnetometry - (tutorial)

by Dr. Walter Ström, Royal Institute of Technology, Stockholm, Sweden

All Atom Protein Folding with Stochastic Optimization Methods

by Prof. W. Wenzel, Dr. A. Schlug, Institute for Nanotechnology, Karlsruhe, Germany,
Dr. A. Verna, Institute for Scientific Computing, Karlsruhe, Germany, and
Dr. K. H. Lee, Korean Institute for Science and Technology, Seoul, Korea

A New Scheme for Intra-Molecular Data Storage and Information Processing

by Dr. Robert Stadler, Technical University of Denmark, Lyngby, Denmark

Development of Lab-on-a-Chip Systems Using a Modular Platform

by Drs. K. Drese, D. Dadic, F. Doffing, G. Münchow, and M. Ritzi
Institute für Microtechnik Mainz GmbH, Fluidics & Simulation Dept., Mainz, Germany

Novel Magnetic Techniques in Bio-Applications

by Dr. Walter Ström, Royal Institute of Technology, Stockholm, Sweden

From Nanotechnology to Molecular Manufacturing – A Roadmap with the Story of a Concept – (tutorial)

by Dr. S. Santoli, INT - International Nanobiological Testbed Ltd., (London), UK