
NanoTechnology: Science and Application

[NanoTech Insight'05]

20-25 February 2005. Hilton Luxor. Luxor, Egypt
www.nanoinsight.net



April 2004

Dear Colleagues,

You are kindly invited to participate in the International Conference on Nanotechnology: Science and Application [NanoTech Insight'05] which will be held at the Hilton Hotel in Luxor, Egypt. The conference will begin on the afternoon of Sunday the 20th of February 2005 and end on the midday of Friday the 25th. We hope for the participation of all active researchers in the field of Nanotechnology to report on the latest developments in their respective research institutions.

Since the early 90s, knowledge and comprehension of the Nano-world has grown exponentially. Despite this early growth in the 90s however, it is only very recently that nanotechnology has officially been recognized as the leading technology of the 21st century. At this crucial moment, while nanotechnology just beginning to reach maturity, it is vitally important that nano-scientists have a forum where they can meet to discuss the up-to-the-minute developments in this state-of-the-art research. That is why now is an opportune time to present NanoTech Insight'05, as one such occasion for scholars to come together and to gain a deeper insight from one another into the intriguing aspects of the Nano-world.

The broad scope of this meeting is meant to emphasize the multidisciplinary nature of nanotechnology. Chemists, Biologists, Physicists, and Engineers are all invited to participate in this meeting to present and discuss the current state of research related to nanotechnology. As a burgeoning new field, young scientists and students are strongly encouraged to participate; it is hoped that by involvement in such a meeting, that young researchers, under the guidance of the leading scientists, will be inspired and assisted to understand, seek, and enhance the goals of nanotechnology. It is our firm belief that scientists working in this field, in addition to the detailed knowledge of their specific area, must gain a wider scope of the whole field. For the sake of a rapid and planned advancement of nanoscience, it is also necessary for researchers (especially young ones and students) to gain and practice the necessary tools for interdisciplinary communication.

One of the foremost goals of this meeting is to attract the attention of research communities and officials of developing countries to the importance of this field and to draw their attention to the importance of cutting-edge research and technologies more generally. Our aim is to expose as many young researchers from the developing world as possible to the leading researchers in this field. We also aim to promote the participation of female researchers. As a new and rapidly developing science with many applications, nanoscience offers many great promises for the future. We, the organizers of NanoTech Insight, hope that this promised future will be one that all human communities can share.

This conference is an offshoot of the "International Conference on Solar Energy and Applied Photochemistry". The Solar conference has been successfully organized in Egypt by the Photoenergy center of Ain Shams University since 1991. Solar'05 is planned to take place in the same time frame as the NanoTech Insight conference.

Nanotech Insight Committee, 2005

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🔗 Topics:

- Single molecules
- Self-assembly
- Bionanotechnology
- Nanomaterials (includes Carbon Nanotubes)
- Nanofabrication
- Supramolecular chemistry
- Molecular modeling and simulations at the nanoscale

🔗 Who Should Attend:

- Chemists
- Physicists
- Biologists
- Engineers
- Students
- Technology Transfer Professionals
- Strategic Planners
- Technology Managers
- Investors
- Investment Organizations
- Professionals from the Government sector
- Economic Development Representatives

🔗 Timeline:

- First Circular and call for papers (April 2004) // Second Circular (September 2004)
- 30 September 2004: Abstract submission deadline
- 22 October 2004: Abstract acceptance
- 29 October 2004: Early bird registration deadline
- 29 November 2004: Regular registration deadline
- 15th December 2004: Full reimbursement minus charges deadline
- 15 January 2005: Reimbursement minus 25% deadline
- 15 February 2005: Reimbursement minus 50% deadline
- Sunday the 20th of February 2005: Arrival, registration, and Conference mixer
- Monday the 21st of February 2005: Conference Start
- Friday the 25th of February 2005: Conference End

International Scientific Advisory Committee:

- 🔗 Dr. Michel Aegerter: *Institute for New Materials (Saarbrücken, Germany)*; Prof. Dr. Chunli Bai: *The Chinese Academy of Sciences (China)*; Prof. Dr. Vincenzo Balzani: *Università di Bologna (Italy)*; Prof. Dr. Peter Bäuerle: *Universität Ulm (Germany)*; Prof. Dr. Christian von Borczyskowski: *Chemnitz University of Technology (Germany)*; Prof. Dr. Harald Fuchs: *Westfälische Wilhelms-Universität (Germany)*; Prof. Taekjip Ha: *University of Illinois (USA)*; Prof. Dr. Johan Hofkens: *Katholieke Universiteit Leuven (Belgium)*; Prof. Dr. Yoshihisa Inoue: *(Osaka, Japan)*; Dr. Rafik O. Loutfy: *Xerox Research Center of Canada (Canada)*; Prof. Dr. Max Lu: *University of Queensland (Australia)*; Prof. Dr. Hans Lüth: *Research Centre Jülich (Germany)*; Prof. Dr. Alfred Meixner: *Universität Siegen (Germany)*; Prof. Dr. Roeland J. M. Nolte: *University of Nijmegen (The*

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Netherlands); Dr. Ichiro Yamashita: *Advanced Technology Research Laboratories Panasonic (Kyoto, Japan)*;
Prof. Dr. Paul Ziemann: *Universität Ulm (Germany)*

Organisers:

Prof. Dr. M. S. A. Abdel-Mottaleb
Photoenergy Center
(Egypt)

Dr. M. M. S. Abdel-Mottaleb
(Egypt)

Prof. Dr. Entisarar El-Shobaky
(Egypt)

Drs. Allana Haist
(Canada/Egypt)

Speakers: (as of June 30, 2004)

Michel Aegerter (Saarbrücken, Germany)

Electrochromic devices processed by chemical nanotechnologies. State of the art and issues. Low and high temperature processing of transparent coatings using suspensions of crystalline nanoparticles

Thomas Basché (Mainz, Germany)

To be announced

Christian von Borczyskowski (Chemnitz, Germany)

Selforganization of functionalized dye molecules on colloidal semiconductor nanoparticles: Photoinduced charge transfer and storage

Alberto Credi (Bologna, Italy)

Artificial molecular-level devices and machines

Eric Garfunkel (Rutgers, USA)

To be announced

Hermann E. Gaub (LM München, Germany)

To be announced

Taekjip Ha (Illinois, USA)

Porous Nano-containers for Single-Molecule Biophotonics

Paul Hansma (California, USA)

Lessons for New Nanotechnology from Nature's Nanotechnology

Yoshihisa Inoue (Osaka, Japan)

Photochirogenesis in Chiral Nanospace: An Entropy Control

Roberto Lazzaroni (Mons, Belgium)

To be announced

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Max Lu (Queensland, Australia)

Novel method of synthesis of mesoporous and nanocrystalline TiO₂ for dye-sensitized solar cells

Hans Lüth (Research Centre Jülich, Germany)

Semiconductor NanoDevices for Electronics

Alfred Meixner (Siegen, Germany)

Towards understanding and control of nanoparticle-enhanced spectroscopy

Roeland J. M. Nolte (Nijmegen, The Netherlands)

To be announced

Antoine van Oijen (Harvard, USA)

A single-molecule view of DNA replication

Beng Ong (Xerox, Canada)

From architecturally engineered nanoparticles to printed plastic transistor circuits: Gateway to low-cost, structurally inspiring electronics

Alan E. Rowan (Nijmegen, The Netherlands)

To be announced

Ichiro Yamashita (Panasonic, Japan)

Bio-Nano-Process; Making Nanoelectronics Devices Using Cag-shaped Protein

Mark Welland (Cambridge, UK)

To be announced

Paul Ziemann (Ulm, Germany)

The Selforganization of Metal-loaded Diblock-Copolymers: A Tool to Prepare Ordered Arrays of Metallic Nanoparticles

Venue:

Lectures, the get-together party, registration and the conference office, will take place at the Hilton Hotel in Luxor, Egypt.

Scientific Program:

The scientific program is composed of: Plenary lectures (45 min), Keynote lectures (30 min), oral contributions (15-20 min), and posters. All abstracts submitted will be refereed by the Scientific Advisory Committee and based on their recommendations, the type of contribution will be announced if the abstract is accepted. This conference aims to promote the involvement of female researchers. Accordingly, all lecture placements will be based on the principle of gender equality.

Social Program:

Includes visits to Luxor and Karnak temples, the Colossus of Memnon, the tombs in the Valley of Kings (including Tutankhamun and Ramses tombs), Hatshepsut's Temple, Luxor Museum, Luxor bazaar, the chance to travel to Abu Simbal, among other opportunities. A detailed plan will be posted online closer to the date of the conference.

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Call for papers:

We call for all researchers working in nanoscience/nanotechnology to report on recent results, improvements, and new approaches under the following topics:

- Single molecules
- Self-assembly
- Bionanotechnology
- Nanomaterials
- Nanofabrication
- Supramolecular chemistry
- Molecular modeling and simulations at the nanoscale

Abstract Submission:

Abstracts should be submitted online at www.nanoinsight.net/regform.htm (recommended) or as an attachment via email to abstracts@nanoinsight.net.

- In case of online abstract submission, when uploading the abstract the file must be named: "Abstract + Name of first author" (e.g. "Abstract_Einstein_Albert.doc")
- In case of abstract submission via email: each abstract must be submitted via a separate email. The subject field must only contain the following: Abstract (Name of first author) and the file must be named as in the example above.
- In either case, you must use the abstract template (available at: http://www.nanoinsight.net/files/abstract_template.doc)

Your abstract must include all of the following:

1. Abstract Title
2. Authors (presenting author first). For all the authors: First name, last name, affiliation, address.
3. Presentation preference: Oral or Poster presentation (in case of submitting the abstract via email only)
4. Keywords: maximum 5 keywords

Abstracts should contain enough information to clearly convey the approach and the results of the research. To ensure high-quality, all abstracts will be reviewed by the conference committees for merit and suitability of content. The conference committees may require manuscript revision before accepting the abstract, and reserve the right to reject any abstract that does not meet content or presentation expectations.

Registration info:

You can register online at: <http://www.nanoinsight.net/regform.htm>.

The following registration fees include: all conference materials, conference excursion, coffee breaks, 5 lunches

- Normal fee*: 450 euro
- Postdoc Fee*: 350 euro (proof is required)
- Student Fee*: 250 euro (proof is required)
- Accompanying person: 200 (tours and lunch inclusive - with the exception of the Post-Conference Tour)**
- Banquet 25 euro/person**

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- Post conference tour to Aswan: 350 euro/person** (A three day/two night trip to Aswan, including accommodation and transportation from Luxor to Aswan, and visiting many of the historic sites on the road between the two cities)

*for early bird registration please subtract 50 euro. After the normal registration deadline please add 50 euro.

** Children under 16 are exempted from the accompanying person registration and are charged 50% for the post conference tour and the banquet.

Please Note:

Participants directly associated with institutes or universities in developing countries will be eligible for a 50% reduction on the registration fee. In addition, developing country nationals who are currently guest researchers at institutes or universities in Europe, Japan, Korea, Australia, Canada, or the USA are be eligible for a 25% reduction on the registration fee.

Countries which are considered as "developing" are defined by the World Bank's most recent list (<http://www.worldbank.org/data/countryclass/classgroups.htm>) of "low income" and "lower-middle income" countries.

➤ Deadlines:

Abstract submission deadline: 30 September 2004

Abstract acceptance notification: 22 October 2004

Early bird registration deadline: 29 October 2004

Regular registration deadline: 29 November 2004

➤ Cancellation policy (registration fees):

Full reimbursement minus charges: 15 December 2004

Reimbursement minus 25% 15 January 2005

Reimbursement minus 50% 15 February 2005

No reimbursement after 15 February 2005 (unless due to health or family emergencies: proof is required)

Note: This policy is only with regard to registration fees. Payment for accommodation and the post-conference tour will be reimbursed up to 24 hours before the participant's arrival date at the conference.

➤ Contact:

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