

# Call for Papers

## Grenoble

is located in the middle of French Alps

Grenoble, regional capital of "Alpes and Dauphiné" is at the meeting point of three mountain chains : Belledonne, Chartreuse and Vercors. It is also a major city for arts, literature, sciences and hightech industry. It is a very dynamic location where students, sportsmen and professionals mix and work together.



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Whatever your interest, cultural (Champfollion, Stendhal, Berlioz), scientific (Minatec, L ti, Universities, Synchrotron, ILL, CNRS), artistic (11 art galleries) or sport ( walking, cycling, riding in the National park, visiting lakes, mountain biking, skiing and all other mountains sports), you will find in Grenoble something to satisfy your passion. It is also the European « silicon valley » with STMicroelectronics, Motorola, Philips, Soitec...and finally don't forget to taste "dauphinoise" cooking, local wines (Gamay, Chignin).

Grenoble is easily accessible by air, TGV and major road networks.

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1 Cable car « Bulles » to take up to « La Bastille.

2 Vercors, Le Mont Aiguille.

3 Grenoble « Belledonne».

4 Clean rooms.

5 Scientific park « Polygone Scientifique » (CEA, L ti, Synchrotron, ILL).



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## Seeing at the Nanoscale II

International conference

Exploring Nanostructure Imaging,  
Characterization and Modification  
Using SPM and Related Techniques

13<sup>th</sup>-15<sup>th</sup> October 2004  
Europole Congress Centre  
Grenoble, France

Minatec, Nano2Life, Phantoms and Veeco Instruments are sponsoring the second in the series **Seeing at the Nanoscale**, focusing on nanostructural imaging, characterization, and modification using scanning probe microscopy (SPM) and related techniques. This international conference, "**Seeing at the Nanoscale II**," will be held on 13th – 15th October 2004 at the Europole Congress Centre, in Grenoble, France.

*Minatec, a talent pool dedicated to science, advanced technology and hightech industry, is one of the leading European poles for innovation in micro and nanotechnology, a high concentration of skills and resources located in Grenoble.*

*Nano2Life is the first European Network of Excellence on nanobiotech initiated by 23 research organisations and centres, which have experience in initiating nanobiotech projects or programmes. 170 scientists from 12 countries are integrated under this network to implement joint activities at the interface between the "nano" and the "bio" worlds. Nano2Life sets the basis for a virtual European Nanobiotech Institute with strong local establishments.*

*Phantoms is a network of Excellence, whose mission is to provide a platform of services and information for researchers active in Nanotechnologies directed towards information processing and storage. Phantoms has currently around 230 members worldwide and is funded by the European Commission (IST program).*

*Veeco is a leading provider of Metrology and Process Equipment solutions used by manufacturers in the data storage, semiconductor and telecom/wireless industries. Veeco's Metrology tools are used to measure at the nanoscale and Process Equipment tools help create nanoscale devices. Veeco's products are also critical enabling instruments used in the advancement of scientific research and nanotechnology.*

We welcome all users of SPM and metrology instruments to attend this unique forum for scientists to speak to scientists on a wide variety of cutting-edge nanotechnology topics. The conference will be held 13th – 15th October 2004 in the Europole Congress Centre in Grenoble. The conference will include two and a half days of technical presentations, a Medieval banquet (where two awards will be announced) on **Thursday 14th October** and an extensive poster session.

Pre-registration will be 295€ before 30th June 2004, and 325€ afterwards. Registration covers conference sessions, printed abstracts and all social events. For further details about the conference, please visit : [www.veeco-europe.com](http://www.veeco-europe.com)

# Seeing at the Nanoscale Conference II

## Call for Papers

Abstracts for papers and poster presentations are now being accepted.

Topics may cover a wide range of nanoscale imaging and modification applications, and techniques within the specific foci of the five sessions. Contributed papers will be considered for either oral or poster presentation.

All abstracts will be reviewed by the Technical Committee. Final abstracts will be posted on the conference website and printed in the conference program. **Abstract submissions are due 7th July 2004** and may be submitted on-line through [www.veeco-europe.com](http://www.veeco-europe.com)

The members of the Technical Committee are:

- Prof. M. Horton (UCL, London, United-Kingdom)
- Prof. S. Cohen (Weizmann Institute, Rehovot, Israel)
- Prof. F. Besenbacher, (University Aarhus, Denmark)
- Prof. J.W.M. Frenken (Universiteit Leiden, The Netherlands)
- Dr. P. Boisseau (Nano2Life, France)
- Dr. A. Chabli (Leti, France)
- Dr. A. Correia (Phantoms Foundation, Spain)
- Dr. C. Prater (Veeco Instruments, Santa Barbara, California, United-States)
- Dr. P. de Wolf (Veeco Instruments, Europe)

*We are very honoured to have Professor C. Gerber as our keynote speaker and guidance of this global event.*

### SPONSORED BY:



Contact Marie-France Clévenot conference organizer  
with questions: [conforg@veeco.fr](mailto:conforg@veeco.fr) or 00.33 (0) 1.64.59.27.12

## Technical Sessions

Keynote Speaker: **Prof. C. Gerber** (IBM, Zürich)

Conference Advisors: **David Holden** (Minatec)  
**Dr. P. Boisseau** (Nano2Life)  
**Dr. A. Correia** (Phantoms Foundation)  
**Dr. P. de Wolf** (Veeco Instruments)  
**Dr. C. Prater** (Veeco Instruments)

### SESSION 1 Visualization I: Biomolecules and Biological Processes

Chair: **Prof. M. Horton**, UCL, London, United-Kingdom

Focus: Techniques to image cells, proteins, lipids, and tissue samples

### SESSION 2 Visualization II: Materials & Polymer Systems

Chair: **Dr. S. Cohen**, Weizmann Institute, Rehovot, Israel

Focus: Methods to image and manipulate, from single macromolecule and functional self-assemblies to complete materials systems

### SESSION 3 Measurements of mechanical, electrical, optical, thermal properties of materials at the Nanoscale

Chair: **Prof. F. Besenbacher**, University Aarhus, Denmark

Focus: Material characterization in nanometer and sub-micron scale with emphasis on mechanical, electrical, optical and thermal properties

### SESSION 4 Instrumentation: New Tools & Techniques for Nanoscience

Chair: **Prof. J.W.M. Frenken**, Universiteit Leiden, The Netherlands

Focus: Innovative & future developments of SPM tools and techniques, probes and sensors

### SESSION 5 Theory & Physics of SPMI

Chair: **Dr. C. Prater**, Veeco Instruments, Santa Barbara, California, United-States

Focus: Theory and physics of the principles & possibilities of SPM and related techniques