

NANOSENS 2008

29 - 30 September 2008

REGISTRATION AND INFORMATION

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VENUE

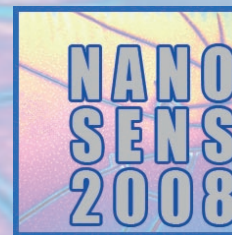
Tech Gate Vienna Wissenschafts- und Technologiepark GmbH
Tech Gate Tower, Ground Floor, Room 0.1
Donau-City-Strasse 1, 1220 Vienna, Austria
How to get there: www.techgate.at/anreise

ORGANISER

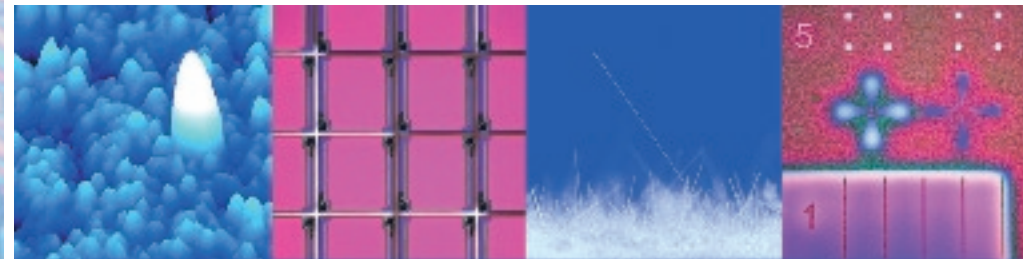
AUSTRIAN RESEARCH CENTERS

Austrian Research Centers GmbH - ARC
Nano-System-Technologies
Donau-City-Strasse 1, 1220 Vienna, Austria
www.nanosystemtechnology.com

Hubert Brückl (ARC - Nano-System-Technologies)
Anton Köck (ARC - Nano-System-Technologies)
Margit Malatschnig (Techkonnex - High-Tech Promotion)
Sigrid Otter (ARC - Nano-System-Technologies)
Kerstin Formanek (ARC - Nano-System-Technologies)



FIRST ANNOUNCEMENT



NANOSENSORS FOR INDUSTRIAL APPLICATIONS

29 - 30 September 2008, Vienna, Austria

IN COOPERATION WITH



THIS CONFERENCE IS FUNDED BY



Die Technologieagentur der Stadt Wien.

AUSTRIAN RESEARCH CENTERS

NANOSENS 2008

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INVITATION

Nanotechnology pushes the frontiers of sensor technology!

NANOSENS 2008 highlights **latest developments** of **nanosensors** for applications in **biology** and **medicine!**

Nanotechnology is more than the extreme end of miniaturization: physical, chemical and biological functions are joining at the nanoscale and enable new possibilities for sensor development. Nanotechnology offers innovative tools for detection where conventional technologies are reaching their limits and has the potential to make significant contributions to detection and prevention of diseases.

The conference is an information and discussion forum presenting recent R&D results in four selected topical fields with highest application potential. NANOSENS 2008 is of great interest for industrial users as well as for scientists and advanced students.

CONFERENCE CONTRIBUTIONS

Along with invited talks poster and a limited number of oral contributions can be accepted for the conference. If you intend to submit a contribution for NANOSENS 2008, please send a short abstract (half page maximum) to **office@nanosens.at** until **13 June 2008**. Please note: Conference language is **English**.

CONFERENCE FEE

In case of early registration until **10 July 2008**, the conference fee is € 220,- after this date € 250,- (prices excl. 10% VAT). For a limited number of non-contributing students, free attendance may be granted on request. Please note: Registration is mandatory for all conference participants. **Use the early booking discount!**

For further information please visit our conference-website **www.nanosens.at**.

REGISTRATION - via Fax +43-50550-4399

- I would like to register
- I will submit a contribution
- I request to participate as non-contributing student

Institution:

Address:

Zip Code/City/Nationality:

Phone: Fax:

TOPICS

FUNCTIONALISED SURFACES AND BIOSENSORS

Specific surface functionalisation is indispensable for biosensors where a target molecule should interact with biorecognition elements such as enzymes, DNA, antibodies or cells. A successful interaction results in a change of optical, thermal, electrochemical or magnetic properties which is converted into an electronic detector signal.

NANO-OBJECTS: BIOMEDICAL ALL-ROUNDERS?

Nano-objects are exploited for manifold tasks in diagnostics and therapeutics. Most promising are nanoparticles which harvest cancer biomarkers, quantum dots which are superior to conventional dye molecules, nano-barcodes as biomarkers, magnetic iron colloid nanoparticles for MRI detection, and smart therapeutic interventions by medication encapsulated in a nanomatrix.

LAB-ON-A-CHIP

Lab-on-a-chip technology means the miniaturisation of automated laboratory bench-top manipulations and their integration with biosensing mechanisms on a single microchip platform. The lab-on-a-chip allows for conducting cheap and sensitive high-throughput analysis and comprises all essential components, such as sensors, sensor surface chemistry and fluidics in a micro-environment.

NEMS — EVEN SMALLER MEMS

The biggest challenge is to link events at the nanoscale with the macroscopic world. Are single molecules applicable as sensor elements with high responsivity? Will the interface between microelectronics and the bio-world provide reliable operation in order to deliver measurement results? These questions will be addressed in different views of industry and science.

PARTICIPANT

Title/Name:

Department:

Email:

Internet: