

Nanotechnology Assessment

Nanotechnology is mentioned to be the key technology of the twenty-first century and appears in the centre of research policy. At present it additionally is in the centre of (scientific) news coverage. The basis for this "career" was prepared by American scientists, i.e. initiated by Richard P. Feynman. The National Science Foundation in the USA has the highest budget for nanotechnology worldwide, followed by Japan and Germany.

This conference focuses on American research in the field of nanotechnology, especially in nanoelectronics. This is where the ground is prepared for nano-computing and nanodevices developed for life sciences and information technology applications, for example.

What is the state of the art? What is attainable in the next ten to twenty years? Where are the technical, economical and ethical limits of these developments? These are the questions the speakers at this conference are requested to answer.

The Europäische Akademie is preparing a project on nanotechnology with the focus on the above-mentioned issues. The additional aim is therefore a broadening of the discussion basis at the beginning of this project. To reach this aim the time frame of the conference provides room for a detailed discussion of all presentations, each of which introduced by a commentary remark.

Programme

Friday, 13 September 2002

- 13:00 Welcoming Address
Professor Dr. Carl-Friedrich Gethmann
(Europäische Akademie GmbH)
- Session I: Basic Research and its Implications
- 13:30 "Proteins as mechano-chemical-nano-swiches"
Professor Dr. Viola Vogel
(Center for Nanotechnology, Department of Bioengineering, University of Washington, Seattle, USA)
- 14:15 Discussion
- 15:00 Break
- 15:30 "Molecular Electronics"
Professor James R. Heath, PhD
(Department of Chemistry and Biochemistry, University of California, Los Angeles, USA)
- 16:15 Discussion
- 17:00 Break
- 17:30 "Molecular Electronics"
Stan Williams, PhD
(Quantum Science Research, HP labs, Palo Alto, USA)
- 18:15 Discussion
- 19:30 Conference Dinner

Programme

Saturday, 14 September 2002

- Session II: Economic and Philosophic Aspects
- 09:00 "Added Value through Nanotechnology"
Dr. Gerd Bachmann
(VDI - Technologiezentrum, Düsseldorf)
- 09:45 Discussion
- 10:30 Break
- 11:00 "Nanoscale Research: Application Dominated, Finalized, or "Techno- Science?"
Professor Dr. Alfred Nordmann,
(Institut für Philosophie, TU Darmstadt, Philosophy Department, University of South Carolina, Columbia, USA)
- 11:45 Discussion
- 12:30 Final remarks
- 13:00 End of Conference



Europäische Akademie

zur Erforschung von Folgen wissenschaftlich-technischer Entwicklungen
Bad Neuenahr-Ahrweiler GmbH

Direktor:
Professor Dr. Carl Friedrich Gethmann

Location and how to find the Günnewig Hotels Residence

Kaiserplatz 11, 53113 Bonn

By car:

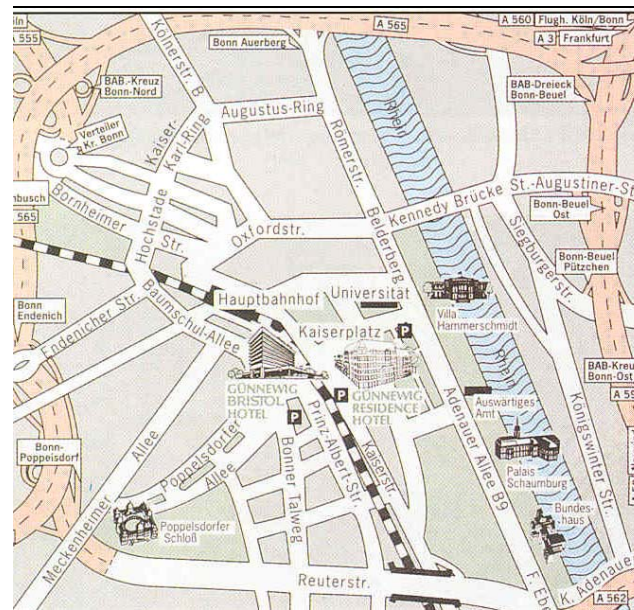
Autobahn (Highway) No. BAB 565(Köln/Koblenz),
Ausfahrt (exit) Bonn-Poppelsdorf (5 kilometres),
see map.

By train:

Bonn Central Station, the hotel is in walking distance
(200 metres), see map.

By plane:

From Cologne/Bonn airport take the bus to Bonn
Central Station. From Frankfurt/Main airport take the
IC/EC to Bonn Central Station. The hotel is in walking
distance (200 metres), see map.



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Autumn Conference 2002

13 – 14 September 2002

Günnewig Hotel Residence – Bonn

Registration

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The Europäische Akademie GmbH is able to provide financial support for students in a very limited range. These grants will cover travel expenses and accommodation. If you are interested please send a letter of motivation with a short CV and a list of publications to the above address.

Conference Venue

Günnewig Hotel Residence

Kaiserplatz 11

D-53113 Bonn

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Email: hotel.residence@guennewig.de

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Accommodation

Please book your room (85,- € for a single room incl. breakfast) directly at the Günnewig Hotel Residence:

Phone: +49 (0) 228 2697-0

Fax: +49 (0) 228 2697-777