

Poster Contributions

- S. Beyer** (Munich)
Fabrication of nanoparticle chains with rolling circle amplification
- P. Björk** (Linköping)
Positioning and decoration of DNA with semiconducting conjug. polyelectrolytes
- M. Bruciale** (Bologna)
Self-Assembled Supramolecular Polymers Made of DNA Parallelograms
- B. Dwir** (Lausanne)
Atomic-force imaging of DNA on graphite and mica surfaces
- G. Festag** (Jena)
Specific metal deposition onto immobilized metal nanoparticles studied on the single particle level
- D. Hammond** (Munich)
DNA-Based Nano-Devices via the Incorporation of Modified Nucleoside Triphosphates
- P.-Y. Li** (Munich)
Nanocrystals Coated with an Amphiphilic Polymer Shell: A route to water soluble nanocrystals of different Shapes
- Cheng-an J. Lin** (Munich)
Synthesis of monofunctionalized nanoparticles by using poly(ethylene glycol)
- S. Lyonnais** (Gif/Yvette)
DNA templates and carbon nanotubes non-covalent linkage
- Y. Mi** (Hong Kong)
A New Triple Crossover Triangle (TXT) Motif for Higher Order DNA Architecture
- K. Mir** (Oxford)
Controlled DNA Synthesis and Construction
- J. Müller** (Dortmund)
Kinetic study of semisynthetic DNA-enzyme conjugates
- K. Nguyen** (Gif/Yvette)
DNA-Templated Metallic Nanowires
- U. Rant** (Munich)
Electrically Switchable DNA Layers
- E. Reiß** (Potsdam)
Rolling circle amplification for spatially directed synthesis of a solid phase anchored ssDNA molecule
- T. Schüler** (Jena)
Fabrication of microelectrodes by self-organization of metal enhancement seeds
- S. Streiff** (Gif/Yvette)
Selective Functionalization of Carbon Nanotubes by Biological Compounds
- H. Wackerbarth** (Lyngby)
Adsorption and Surface Dynamics of short DNA and LNA oligonucleotides on Single-Crystal Au(111) Electrode
- A. Wolff** (Jena)
Charge pattern formation at silicon surfaces for defined biomolecule adsorption

Symposium Contact:

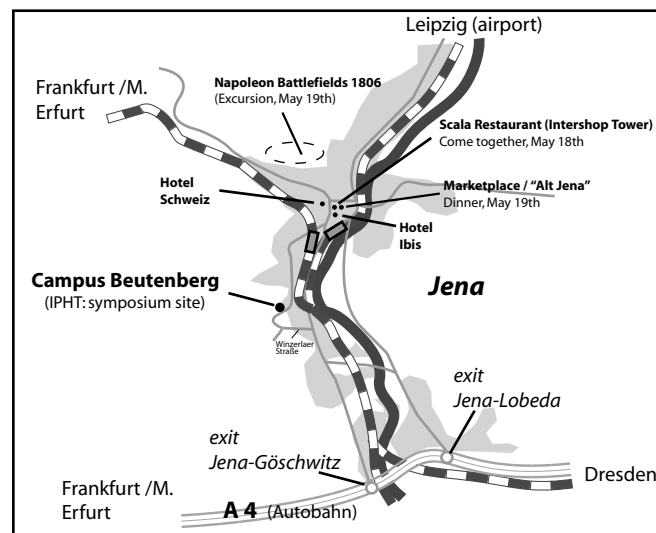
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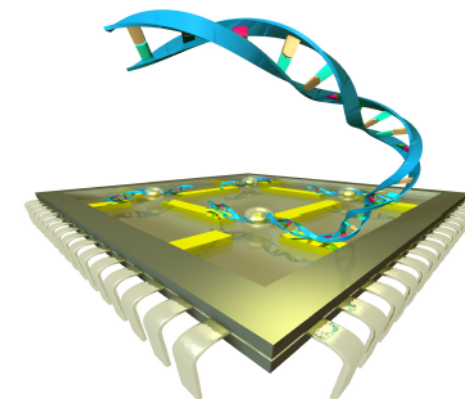
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DNA-Based Nanoscale Integration

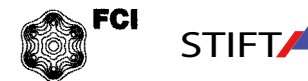
International Symposium



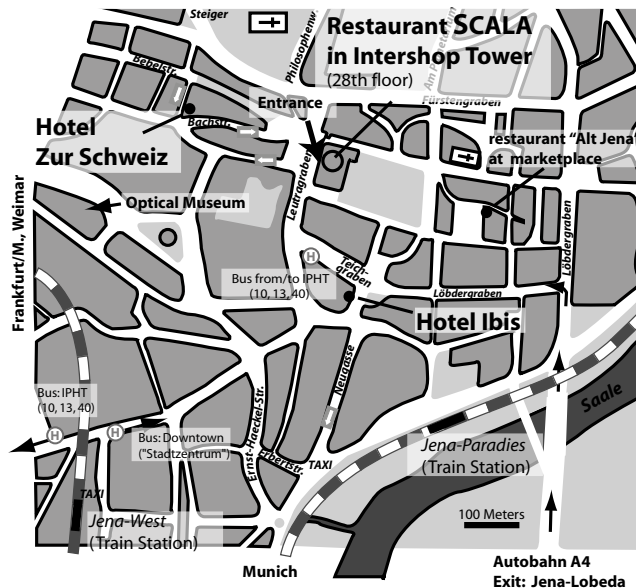
Jena (Germany)

May 18-20, 2006

Organizer: Wolfgang Fritzsche

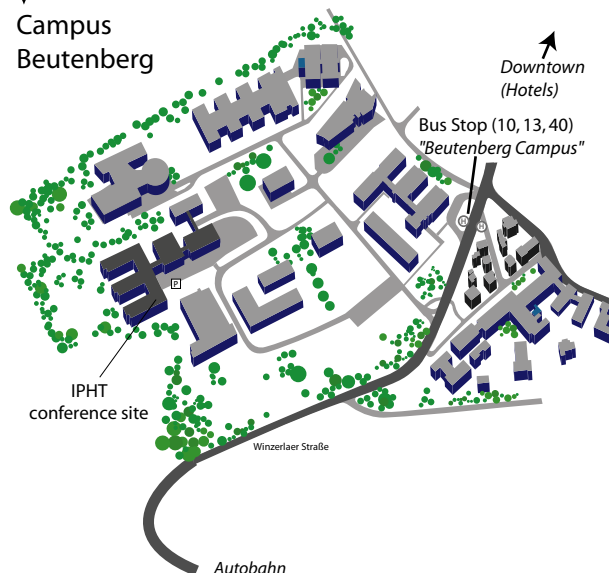


Jena Downtown



Transfer Downtown <-> IPHT

Campus Beutenberg



Program

Thursday, May 18

20:00 Get-together Buffet

(Scala Restaurant, 28th floor of Intershop tower,
5 minutes walk from hotels, see downtown map)

Friday, May 19

07:45 Pick-up from hotel IBIS (please meet at front desk)
public bus to IPHT at Campus Beutenberg

08:00 Registration

08:30 Opening (IPHT at Campus Beutenberg)

Biomolecular Approaches (W. Fritzsche)

08:40 **N. Seeman** (New York)

Using Structural DNA Nanotechnology To Organize Matter

09:05 **A. Bates** (Liverpool)

RNA-based Nanoscale Integration

09:30 **L. Fruk** (Dortmund)

*Covalent Hemin-DNA Adducts for Generating a Novel Class
of Artificial Enzymes*

09:55 **U. Sivan** (Haifa)

Transistor in a Test Tube and Antibodies to Semiconductors

---- coffee break / posters ----

DNA Manipulation (M. Heller)

10:45 **W. Fritzsche** (Jena)

DNA-based Approaches for Micro-Nano Integration

11:10 **C. Escude** (Paris)

*Sequence-specific DNA functionalization for manipulation
and detection of single DNA molecules*

11:35 **B. Samori** (Bologna)

DNA adsorption on Inorganic Surfaces and Nanostructure Growth

12:00 **I-M. Hsing** (Hong Kong)

Integrated Bioanalytical Microdevice Utilizing Nanoparticles

---- lunch break / posters ----

DNA Superstructures & Electronics (G. Zuccheri)

13:30 **A. Kotlyar** (Tel Aviv)

Enzymatic Synthesis of Novel Triplex DNA Nanostructures

13:55 **J. Vesenka** (Univ. New England)

Auto-orientation of G-wire DNA Networks

14:20 **M. Heller** (San Diego)

*Parallel Assisted Self-Assembly of Multilayer DNA and Protein
Nanoparticle Structures Using a CMOS Electronic Array*

14:45 **G. Braun** (Santa Barbara)

Biomolecular Routes for Nanoelectronics

---- coffee break / posters ----

DNA-Functionalization (F. Bier)

15:30 **A. Woolley** (B.-Young-Univ.)

*DNA-templated Construction of Metal, Semiconductor
and Biological Nanostructures*

15:55 **G. Burley** (Munich)

*Directed DNA Metallisation: Towards the Construction of
Rationally Designed, Conductive Nano Devices*

16:20 **A. Filoramo** (Gif/Yvette)

Self-assembly of Carbon Nanotubes by Bio-directed Approach

17:00 Napoleon 1806 Battleground Excursion (bus/hike)

19:30 Dinner ("Alt Jena" Marketplace)

Saturday, May 20

Electrical Manipulation & Measurements (J. Vesenka)

08:30 **R. Hölzel** (Potsdam)

*Monitoring Dielectrophoretic Collection of DNA by
Electrical Impedance Spectroscopy*

08:55 **H.-Y. Lin** (Taiwan)

*Stretching and Positioning of Individual DNA Molecules
on Electrodes by the Electrohydrodynamic Force*

09:20 **J. Toppari** (Jyväskylä)

*Dielectrophoresis of nanoscale dsDNA using metallic and CNT
electrodes: Humidity effects on dsDNA's electrical conductivity*

09:45 **D. Porath** (Jerusalem)

*Electrical Transport, Polarizability and Spectroscopy
Measurements through DNA Molecules and Derivatives
Using Conductive AFM and STM*

---- coffee break ----

Novel Approaches & Modern Techniques (B. Samori)

10:30 **H. Yan** (Tempe)

*Experimental Progress on DNA-based Self-assembly
of Nanostructures*

10:55 **D. Klinov** (Lausanne)

High-resolution Atomic-Force Imaging of DNA

11:20 **H. Stadler** (Veeco Instruments)

*Manipulation of Biological Surfaces at the Nanoscale:
Prerequisites, Developments, Examples*

11:45 **N. Amro** (NanoInk)

*DNA Nanoarrays Printed via Dip Pen Nanolithography
for High Sensitivity Bioanalysis*

appr. 12:10 End of the scientific program

12:20 Lunch