



International Workshop "Nanoscale Assembly and Transport in Biosystems"



October 7th, 2014
Technische Universität München
Campus Garching

Organizing committee:

M. Tornow and A. Cattani-Scholz
Department of Molecular Electronics,
Walter Schottky Institut (WSI) & Center for
Nanotechnology and Nanomaterials (ZNN)

Program

Tuesday, October 7th, 2014

Venue: International Graduate School of Science and Engineering (IGSSE)

09.00 – 09.10	M. Tornow and A. Cattani-Scholz	Welcome and Introduction to the Workshop
09.10 – 09.45	Gonen Ashkenasy (Ben Gurion University, Beer-Sheva, Israel)	Molecular Computation and Chemical Oscillations in Protein Networks
09.45 – 10.20	Friedrich Simmel (TU München, Germany)	DNA Nanostructures Interacting with Lipid Bilayer Membranes
10.20 – 10.35	Michael Urban (Goethe University, Frankfurt, Germany)	Nanopore Chips for Parallel Membrane Transport Recordings at Single Transporter Resolution
10.35 – 10.55	<i>Coffee Break</i>	
10.55 – 11.30	Ulrich Kleinekathöfer (Jacobs University, Bremen, Germany)	Dynamics in Biomolecular Systems: From Light Harvesting to Transport Across Membranes
11.30 – 12.05	Nurit Ashkenasy (Ben Gurion University, Beer-Sheva, Israel)	Charge Transport Through Self-Assembled Peptide Nanostructures

Lunchtime (Buffet): 12:05 - 13:30

13.30-14.05	Ulrich Gerland (TU München, Germany)	Spatially Orchestrated Enzyme Kinetics in Multi-Enzyme Complexes
14.05-14.40	Andreas Offenhäusser (Forschungszentrum Jülich, Germany)	Assembly of Molecular and Cellular Bioelectronic Hybrid Systems
14.40-14.55	Csiki Reka (TU München, Germany)	Hybrid Diamond Electrodes Modified with Bacterial Reaction Centers for Photovoltaic Applications
14.55-15.15	<i>Coffee Break</i>	
15.15-15.50	Michael A. Nash (Ludwig-Maximilians-Universität, München, Germany)	Single-Molecule Cut & Paste for Bottom-Up Surface Assembly
15.50-16.05	Katharina Melzer (TU München, Germany)	Ionophore-Doped Membranes for the Selective Ion Detection with Field-Effect Transistors
16.05-16.40	Robert Tampé (Goethe University, Frankfurt, Germany)	Optochemical Biology - In-Situ Assembly of Macromolecular Complexes by Light
16.40-17.40		Closing Remarks and ZNN Lab Tour

Registration:

Attendance is free of charge. Please register by October 1st, by sending name and affiliation to mol@ei.tum.de

How to get to the venue (IGSSE):

Technische Universität München
Boltzmannstraße 17, 85748 Garching/ Germany



Venue IGSSE



U6 "Garching Forschungszentrum"

By underground:

Take the underground (U6), direction "Garching Forschungszentrum" and disembark at the final destination. Leave the station in the direction of travel and continue walking straight to the IGSSE building (walking distance about 2 minutes).

Financial support:

Technische Universität München - Campus Garching
German Research Foundation (DFG)
International Graduate School of
Science and Engineering (IGSSE)



Wi-Fi:

In the ground floor of the IGSSE building Wi-Fi is available for the attendees of the workshop. The access is open from 8 to 19 o'clock.

Contact:

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