

Chair and Organisation:

Prof. Dr. Sabine Maier is assistant professor at the Friedrich-Alexander-Universität Erlangen-Nürnberg and member of the Young Scholars' Programme of the Bavarian Academy of Sciences and Humanities since 2012.

www.badw.de/de/akademie/jungeskolleg

Contact and Registration:

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Participation is free.

Registration deadline: 02.10.2015.

Poster Session:

If you are interested, please send the title with your registration.



Bavarian Academy of Sciences and Humanities

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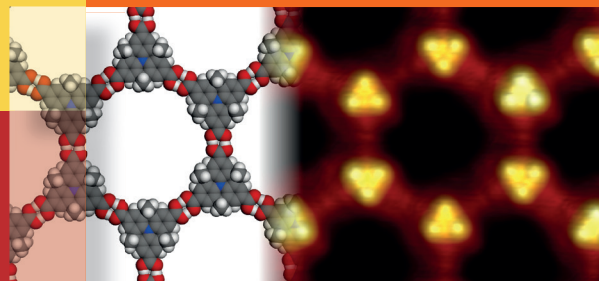
Directions

U3/U6, U4/U5 Odeonsplatz • Tram 19 Nationaltheater
no car park available

Functional Molecules on Surfaces

Workshop
Friday, 9. October 2015

Young Scholars' Programme
of the Bavarian Academy
of Sciences and Humanities



Functional Molecules on Surfaces

The interest in studying molecular nanostructures on surfaces emerges from their prospective applications in nanoscale electronics, solar cells and energy storage devices. Scanning probe microscopy has become an essential tool in the emerging field of nanoscience, as the structure and reaction of single molecules or atoms on surfaces can be visualized.

The aim of the workshop is to give a direct view to functional molecular structures on surfaces through fascinating images and experiments obtained by high-resolution scanning probe microscopy. Thereby, fundamental aspects of molecules adsorbed to metallic and insulating surfaces will be discussed. We mainly focus on single molecule experiments, the dynamics of molecules, intermolecular interactions leading to the formation of self-assembled structures on surfaces and on-surface reactions to form novel functional molecular networks.

Young scientists (PhD students and PostDocs) are encouraged to participate and contribute with posters about their current research to the workshop.

Programme

- 9.30** *Registration*
- 10.00** *Welcome and Introduction*
Sabine Maier, Friedrich-Alexander-Universität Erlangen-Nürnberg
- 10.15** *Scanning Probe Microscopy of Individual Molecules*
Jascha Repp, Universität Regensburg
- 11.05** Coffee Break
- 11.30** *Force Microscopy Experiments with Single Molecules*
Ernst Meyer, Universität Basel
- 12.20** Lunch and Poster Session
- 13.50** *On-Surface Polymerisation: Networking among Molecules*
Markus Lackinger, TU München und Deutsches Museum München
- 14.40** *Alkyne Precursors at the Interface: From Elementary On-Surface Chemistry to Novel Carbon Nanomaterials*
Florian Klappenberger, TU München
- 15.30** Coffee Break
- 16.00** *Molecules on the Move: What can We Learn from the Microscopic Observation of Molecular Dynamics*
Hubertus Marbach, Friedrich-Alexander-Universität Erlangen-Nürnberg
- 16.50** Closing remarks
- 17.00** End of the Workshop