



International Workshop
“Novel Concepts and Electronic Phenomena
in Heterosystems”

29. / 30. May 2018
Evangelische Akademie Tutzing, Lake Starnberg



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Organizers: Anna Cattani-Scholz and Marc Tornow
Walter Schottky Institute and Department of Molecular Electronics,
Technical University of Munich

Preliminary Program

Tuesday 29. May 2018

Venue:

Evangelische Akademie Tutzing, Auditorium

| Session 1: Hybrid Nanostructures and Electronic Transport in Heterosystems | | 9:30-12:50 |
|---|--|--------------------|
| <i>Introductory Remarks</i> | | |
| Franz Faupel (Christian-Albrechts-Universität zu Kiel, Germany) | Functional nanocomposites - from fabrication to function | 9:40-10:20 |
| <i>Short Oral Contribution</i> | | |
| <i>Short Oral Contribution</i> | | |
| Coffee Break | | 11:00-11:30 |
| Alessio Gagliardi (Technische Universität München, Germany) | Charge transport in amorphous and defected materials: a numerical simulation perspective | 11:30-12:10 |
| <i>Short Oral Contribution</i> | | |
| <i>Short Oral Contribution</i> | | |

Lunchtime (Buffet): 13:00 - 14:30

| Session 2: Hybrid Nanostructures and Electronic Transport in Heterosystems | | 14:30-16:30 |
|---|---|--------------------|
| Nicola Hüsing (University of Salzburg, Austria) | Sol-Gel Approaches towards porous hybrid (hetero) systems | 14:30-15:10 |
| <i>Short Oral Contribution</i> | | |
| <i>Short Oral Contribution</i> | | |
| Ayelet Vilan (Weizmann Institute of Science, Rehovot, Israel) | Controlling semiconductors interface electrostatics by adsorbed molecules | 15:50-16:30 |

Coffee Break & Poster Session: 16:30 – 18:00

| | | |
|---|------------------------------------|--------------------|
| Christoph Kutter (Fraunhofer EMFT, München, Germany) | Sensors for the Internet of Things | 18:00-18:40 |
|---|------------------------------------|--------------------|

Conference Dinner: 19:00

ATUMS Roundtable on Gender Issues and Equality Management: 20:30

Wednesday 30. May 2018

Venue:

Evangelische Akademie Tutzing, Auditorium

| Session 3: Hybrid Nanostructures | | 9:00-12:10 |
|---|--|--------------------|
| Björn Braunschweig (Westfälische Wilhelms-Universität Münster, Germany) | Functional Molecular Layers at Solid Surfaces: Formation and In Situ Characterization | 9:00-9:40 |
| <i>Short Oral Contribution</i> | | |
| <i>Short Oral Contribution</i> | | |
| Coffee Break | | 10:20-10:50 |
| Mary Narreto (University of Alberta, Edmonton, Canada) | Ultrafast photoconductivity of Ge inverse opal structures probed by time-resolved terahertz spectroscopy | 10:50-11:30 |
| <i>Short Oral Contribution</i> | | |
| <i>Short Oral Contribution</i> | | |

Lunchtime (Buffet) & Poster Session: 12:30 - 15:00

| Session 4: Electronic Transport in Heterosystems | | 15:00-17:10 |
|--|--|--------------------|
| Rui N. Pereira (Technische Universität München, Germany) | Charge transport in crystalline silicon nanoparticle networks | 15:00-15:40 |
| <i>Short Oral Contribution</i> | | |
| <i>Short Oral Contribution</i> | | |
| Dominique Vuillaume (CNRS, Villeneuve-d'Ascq Cedex, France) | Electron transport in nanoparticle/molecule and nanodot/molecule networks: optically reconfigurable computing functions and microwave (18 GHz) operation | 16:20-17:00 |
| Closing Remarks | | |

Registration:

Attendance is free of charge for a fixed number of participants. **Please register before April 15th, 2018**, by sending name and affiliation to joana.figueiredo@wsi.tum.de, together with an abstract of your planned scientific contribution. A limited number of slots will be available for short oral presentations.

How to get to the venue:

<http://www.schloss-tutzing.de/lage-umgebung/anreise/>

Evangelische Akademie Tutzing
Schlossstraße 2+4
82327 Tutzing
Tel.: 08158 / 251-0

By train:

Take in Munich the S-Bahn S6, direction "Tutzing" and disembark at the final destination. Leave the station in the direction of Bahnhofstraße and follow to Hallbergerallee. Turn left to Hauptstraße to reach Monsignore-Schmid-Straße and Schloßstraße. (walking distance about 10 minutes).

Financial support:

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Wi-Fi:

Wi-Fi will be available for the attendees of the workshop.

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