



# Summerschool SPP1313

Evangelische Akademie Tutzing, 82327 Tutzing  
September 10 – 13, 2009

## Programme

### Thursday, Sept. 10

- 12.00 – 14.00 Arrival of participants, distribution of rooms and registration
- 14.00 – 14.30 Welcome, motivation and perspectives  
R. Zellner, Essen
- 14.30 – 16.00 *NP research at the frontier to biology – past and present*  
P. Gehr, Bern
- 16.00 – 16.30 Coffee
- 16.30 – 18.00 *Cell models and their applications in NP studies*  
U. Beisiegel, Hamburg
- 18.00 – 19.30 Dinner
- 20.00 – 21.00 *NPs from different perspectives : air quality, climate and health*  
R. Zellner, Essen

### Friday, Sept. 11

- 09.00 – 10.00 *Fluorescence techniques in NP related life science studies*  
C. Röcker, Ulm
- 10.00 – 11.00 *Advanced microscopy techniques for life sciences*  
E. Rühl, Berlin
- 11.00 – 11.30 Coffee
- 11.30 – 12.30 *Possible uptake routes of NPs and their uptake mechanisms*  
M. Clift, Bern
- 13.00 – 14.00 Lunch

- 14.00 – 15.00 *Physico-chemical characterisation and modification of NPs*  
M. Maskos, Mainz
- 15.00 – 16.00 *The unique properties of NPs: Physical, chemical and biological*  
A. Musyanovych, Mainz
- 16.00 – 16.30 Coffee
- 16.30 – 17.30 *Entry and trafficking of NPs in cells*  
R. Stauber, Mainz
- 18.00 – 19.30 Dinner

### **Saturday, Sept. 12**

- 09.00 – 10.00 *Synthesis and properties of semiconductor nanocrystals*  
A. Eychmüller, Dresden
- 10.00 – 11.00 *How to identify and prove biological mechanisms*  
V. Mailänder, Mainz
- 11.00 – 11.30 Coffee
- 11.30 – 12.30 *Surface properties of QDs: characterisation and cell/membrane interactions*  
V. Breus, Mainz
- 13.00 – 14.00 Lunch
- 14.30 – 21.30 Boat trip on Lake Starnberg and “Biergarten” dinner

### **Sunday, Sept. 13**

- 09.00 – 10.00 *Uptake of NPs by the skin*  
J. Lademann, Berlin
- 10.00 – 11.00 *Experimental validation of NP/biological effects using in vivo testing*  
W. Kreyling, Neuherberg
- 11.00 – 11.30 Coffee
- 11.30 – 12.30 Final discussion  
R. Zellner, (Chair)
- 13.00 – 14.00 Lunch
- 14.00 Adjourn