



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