Darmstädter Haus
Oberseite Str. 38
Hirschegg
Austria

14 – 21 August 2016

there:

Air
Nearest airports are Mem-mingen (100 km), Munich (210 km) and Stuttgart (220 km).

Rail
Then train to Oberstdorf (railhead) and connecting bus up the valley to Hirschegg (Oberseite Strasse)

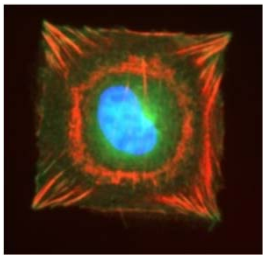
Train info:
http://www.bahn.de

House website:
http://www.wphaus.tu-darmstadt.de/

BioNano Summer-School 2016: Stimuli-responsive interfacial systems

Background and scope

Sensor and actuator systems which can measure respond to changes in their environment are of increasing interest across many disciplines in science: from chemistry to physics and biology. Sensors for small, molecules, peptides, proteins, viruses and bacteria are all becoming more and more established. Actuators which can carry cargo molecules to where they are needed, convert energy i.e. solar cells and biofuel cells are also the subject of much contemporary research and development. The future lies in combining sensors and actuators into *devices* that can respond autonomously to their environment without need for external intervention. Examples proposed are theranostic devices (therapeutic and diagnostic) and in-vivo sensors that might be powered by glucose in blood (for example) are both examples of exciting new directions in science.



To be able to drive this revolution, the next (and current) generation of research scientists will need to engage across disciplines and learn to speak common languages: chemists will need to communicate with engineers; biologists with physicists; clinicians with physical scientists.

The week long summer school will consist of student re-search talks and tutorial talks by professors and post-docs, as well as social activities including hiking in the mountains, games, sports and other social activities (music etc.). The house has a bar which is open all hours and provides break-fast, lunch and dinner.

The cost for 7 days (fill board, all inclusive) is ca. €240 per person. The only extra costs are transport and the bar.

Contact Toby Jenkins (a.t.a.jenkins@bath.ac.uk) or Holger Schönherr (schoenherr@chemie.uni-siegen.de) to reserve places and for more information.

Pre-announcement, 02 Sept. 2015