

International Symposium

The logo for the DFG SPP 1128 program, featuring the text "DFG SPP 1128" inside a circular gradient background.

“Analysis of Biomolecular Machines in the Nanometer Range”

September 20 -23, 2009, Jena, Germany

Within the context of the Priority Programme: “Optical Analysis of the Structure and Dynamics of Supramolecular Biological Complexes” of the German Research Foundation (DFG), an international symposium on: “Analysis of Biomolecular Machines in the Nanometer Range” from Saturday 20th September 2009 to Wednesday 23th September 2009 will be held at the Rosensäle in Jena, Germany.

The aim of the meeting is to discuss in an internationally visible forum, novel developments and applications of optical analyses of biological nanostructures in the cellular context (e.g. cell membranes, cytoplasmic structures, chromatin domains, transcription and replication factories). The emphasis will be on joining methodological developments with biological applications within each and every session. Wherever possible, computer simulations and kinetic modelling will be included. Since the focus of the symposium will be on the optical analysis of biomolecular machines in the cell, we intend to cover spatial and temporal dimensions beyond the “nanoscale”.

The meeting will be organized by Stephan Diekmann (Leibniz Institute for Age Research, Jena) and Christoph Cremer (Kirchhoff Institute for Physics, University of Heidelberg).

Topics of sessions / workshops:

Microscopic imaging at the one nanometer scale – EM/AFM

Light microscopy from the nanometer to the micrometer scale– SMI/4Pi/STED/SPDM/OM-X

Light microscopy from the micrometer to the millimeter – SPIM / Multiphoton / NIR

Dynamic analysis in vivo by light microscopy – Single Molecule / F-techniques / N-dimensional image analysis

Correlation of Light Microscopy and Kinetic Modeling

Workshops on Molecular Labelling and on Novel Perspectives in Microscopy

As an invited speaker, you will be reimbursed for your travel and accommodation expenses for the duration of the conference. We would be delighted if you would accept our invitation. In the SPP1128 Priority Programme (see <http://www.spp1128.uni-hd.de/>) most of the groups working in the field in Germany are included and we are looking forward to a very productive scientific interchange.

List of confirmed speakers:

J. Lippincott-Schwartz (Bethesda), E. Gratton (Urbana), D. Gerlich (Zürich), P. Carlton (San Francisco)

A main topic of this conference and the subjects of one workshop will be to discuss advances in labeling technologies and novel perspectives in Microscopy including commercially available solutions.

Herewith, we inform you about the possibilities to participate:

1. You can rent a booth at the conference site. The booths will be placed in the foyer of the Rosensäle. The costs will be 30 €/m². Registration with specification of the size for the booth and the necessary facilities till August 31st 2009 to mbach@kip.uni-heidelberg.de
2. Do you want to advance the success of the conference with a donation? You can do this under the following conditions:

Recipient: University Heidelberg

BW-Bank Heidelberg

bank code: 672 200 20

account number: 530 27876 00

Reason: 7807250, Jena

SWIFT: BWBKDE6S672 / IBAN: DE88 6722 0020 5302 7876 00

You will get a donation receipt and a notice in the list of sponsors in the proceedings.

3. In addition there is the possibility to contribute the costs of the conference dinner. For further information please contact the conference secretariat: Margund Bach, Kirchhoff-Institut für Physik, Im Neuenheimer Feld 227, 69120 Heidelberg, mbach@kip.uni-heidelberg.de