



International Beilstein Symposium

Overview

With the increasing understanding of molecular systems it is now possible to build materials and new systems with nano-scale precision through the control of the structure of matter at the atomic and molecular level. Since the forces that dominate the macroscopic world have either less relevance or different consequences at the nano-level, we must employ different paradigms when conceiving molecular-scale machines that will build, in turn, new types of materials and machines, etc. Inspired by biological systems, researchers are beginning to mimic nature in the design of molecules and supramolecular systems but also in the modification of nature's own factories.

The interdisciplinary approach of scientists, who combine knowledge from the natural sciences, engineering and informatics in the design and synthesis of molecules, makes possible the exploration of the limits of miniaturization, operation and efficiency for both natural and artificial machines. The aim is to be able to routinely design molecules or systems with desired physicochemical or physiological properties.

This symposium brings together scientists from different disciplines to discuss, from their own points of view, the contemporary state and future perspectives in molecular engineering and control, including a.o. the following aspects:

- Molecular control on/of surfaces
- Biological transport processes and molecular motors
- Manipulation of metabolic pathways/protein engineering
- Molecular self-assembly
- Artificial (biological) systems

MOLECULAR ENGINEERING AND CONTROL

May 14th - 18th, 2012

Prien (Chiemsee)
Germany

First Circular

The Symposium

The Beilstein Symposia, traditionally kept small with up to 40 to 50 participants, address contemporary issues in the chemical and related sciences by employing an interdisciplinary approach. Scientists from a wide range of areas are invited to present aspects of their work for discussion, with the aim of not only advancing science, but also enhancing interdisciplinary communication.

This Symposium will be held from May 14th to 18th, 2012. The scientific program will take place over three days and will start at 09.00 on Tuesday, the 15th and end at ca. 18.00 on Thursday, the 17th.

You should plan to arrive on Monday, the 14th and to depart in the morning (after the breakfast) of the 18th May.

The language of the symposium is English.

The dress is casual/informal.

Conference Office

Beilstein-Institut

Dr. Martin Hicks and Dr. Carsten Kettner

Frankfurt am Main

Germany

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Tel.: +49-(0)69-7167-3220

Fax.: +49-(0)69-7167-3219

URL: www.beilstein-institut.de/en/symposia

Conference Location

The Symposium, lunches and dinners will take place at

Yachthotel Chiemsee
Harrasser Str. 49
83209 Prien/Chiemsee
Germany
Email: info@yachthotel.de
URL: <http://yachthotel.de/>

All rooms are equipped with bathtub or shower and WC, minibar, cable-TV, radio, direct-dial telephone.

Registered participants are requested to make their bookings at the hotel **latest by March, 30th, 2012**. Please note that there is only a limited number of rooms in our allotment.

Participants are responsible for settling their hotel bills directly with the hotel on departure.

A special rate of about EUR 710,- per person for lodging (4 nights) and full board has been negotiated with the hotel. The full board at the hotel covers from dinner on the 14th to breakfast on the 18th and includes all coffee breaks. If you do not want to leave the conference site right after the meeting you should plan an additional night at additional costs.

Extras, such as drinks, telephone calls etc. are **not** included in the price.

The hotel accepts MasterCard and Visa (but not Amex or Diners Club).

The hotel offers wireless internet access free of charge.

Registration

Registration should be made by using the registration form which can be sent out on request and is also available from the conference web site at

<http://www.beilstein-institut.de/en/symposia/overview/beilstein-symposium-2012/>

Please complete the form and send it to the address given on the form.

Confirmation of the registration will be sent on receipt of the registration form.

Places are limited and will be allocated on a first-come basis.

Conference Fees

The conference fee includes a book of abstracts and one copy of the proceedings book sent out later after the Symposium.

The conference fee is € 425,- (€ 250,- for academics) and should be paid **by March 30th, 2012** to the following account:

Beilstein-Institut
Commerzbank Frankfurt am Main
Account No.: 4900 273 00
Bank code: 500 800 00

For international transfers:

International Bank Account Number (IBAN):
DE89500800000490027300
SWIFT-BIC: DRES DE FF

Please state **Beilstein Symposium 2012** and **name(s) of the participant(s)** on all transfers.

Participants are responsible for paying any bank charges.

Refunds for cancellations cannot be made after April 13th, 2012. Any refunds will be paid after the workshop and subject to a EUR 50.-- administration fee. If you have to cancel, please note that registrations may be transferred to another member of your organisation at any time.

Confirmed Speakers

Dean Astumian (University of Maine)
Darryl Bornhop (Vanderbilt University)
Nediljko Budisa (Technical University of Berlin)
Tim Clark (University of Erlangen)
Lee Cronin (University of Glasgow)
Eric Drexler (University of Oxford)
Armin Götzhäuser (University of Bielefeld)
Michael Huth (University of Frankfurt)
Andreas Kirschning (University of Hannover)
Tibor Kudernac (University of Twente)
Peter Leadlay (University of Cambridge)
Jean-Marie Lehn (University of Strasbourg)
Rob Macfarlane (Northwestern University)
Eiichi Nakamura (University of Tokyo)
Guillaume Salbreux (Max Planck Institute for the Physics of Complex Systems)
Mark Sansom (University of Oxford)
Thomas Schimmel (Karlsruhe Institute of Technology)
Frank Schulz (Technical University of Dortmund)
Paul Weiss (University of California Los Angeles)
Dave Winkler (CSIRO Materials Science and Engineering)

Register Today!