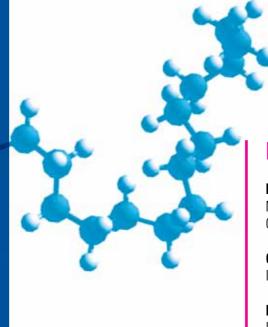
CHALLENGES AND PROSPECTS OF POLYMER CHEMISTRY

The aim of this workshop is to discuss current challenges in polymer chemistry and the new opportunities provided by tailoring polymer architectures and tuning properties of organic and macromolecular systems. How can polymer design, (nano)structure formation and system integration contribute to solving existing problems of advanced materials and enabling new technologies? How do we define the future role of polymer chemistry and the priorities in polymer synthesis and materials development?

We propose to focus on new approaches and dream polymer products which meet the urgent demands of our society for renewable energy, communication, protection, and sustainable development. The discussions will be fueled by invited lectures and stimulated by (invited) flash presentations. These presentations will give short statements on the limitations and challenges of existing approaches, raise questions or sketch new ideas. All participants are welcome to present their opinion in these flash presentations. Discussions will be continued during the poster sessions.



INVITED SPEAKERS

Markus Antonietti Max-Planck-Institut für Kolloid- und Grenzflächenforschung, Potsdam, Germany

Gero Decher Institut Charles Sadron, Strasbourg, France

Nicolas Giuseppone Institut Charles Sadron, Strasbourg, France

Stephan Hecht Humboldt-Universität, Berlin, Germany

Gerhard Hörpel Westfälische Wilhelms-Universität, Münster, Germany

André Laschewsky Universität Potsdam, Germany

Jean-Marie Lehn Université Louis Pasteur, Strasbourg, France

Krzysztof Matyjaszewski Carnegie Mellon University, Pittsburgh, USA

lain McCulloch Imperial College, London, United Kingdom **Stefan Mecking** Universität Konstanz, Germany

Martin Möller Rheinisch-Westfälische Technische Hochschule, Aachen, Germany

Klaus Müllen Max Planck Institut für Polymerforschung, Mainz, Germany

Roeland Nolte Radboud Universiteit, Nijmegen, The Netherlands

Jürgen Rühe Albert-Ludwigs-Universität, Freiburg, Germany

Hans-Werner Schmidt Universität Bayreuth, Germany

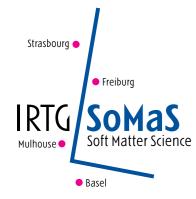
Arnold Schneller BASF SE, Ludwigshafen, Germany

Mukundan Thelakkat Universität Bayreuth, Germany

ORGANIZERS

Rolf Mülhaupt (Freiburg, Germany) Paolo Samorì (Strasbourg, France) Hans-Werner Schmidt (Bayreuth, Germany) Günter Reiter (Freiburg, Germany) Jörg Baschnagel (Strasbourg, France)

This meeting is organized within the framework of our meeting series focusing on discussions about challenges and prospects of soft matter science.





SOFT MATTER RESEARCH

THEMATIC AREAS

Electroactive polymers for optoelectronics and energy technologies

Can carbon polymers substitute silicon in electronics and energy harvesting? How to improve polymer solar cells? How to exploit polymer chemistry in energy harvesting and energy storage? How to make polymer batteries?

Responsive polymers for smart materials and systems

How to improve precision and functional design in polymer synthesis? How to render polymers smart and responsive to changes of their environment? How to design polymers for system integration and applications in micro systems and multifunctional devices?

Polymers for high resource- and energy effectiveness

What is the future role of polymerization catalysis? Is carbon dioxide the raw materials of the future? Which polymers are needed in industry?

Supramolecular polymers

How to exploit non-covalent bond formation and supramolecular assemblies in designing functional polymers and systems?

LOCATION

Vier Jahreszeiten am Schluchsee

Am Riesenbühl D-79859 Schluchsee + 49 (0) 7656/70-326 www.vjz.de

Duration of the Meeting

Beginning: Wednesday 2nd May (morning) End: Friday 4th May (after lunch)

Participation Fee

(including accommodation): 350,-€

Deadline for Registration April 2, 2012

CONTACT

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Further Information and Registration

http://www.softmattergraduate.uni-freiburg.de/ discussionmeeting2012



A DISCUSSION MEETING CHALLENGES AND PROSPECTS OF POLYMER CHEMISTRY MAY 2-4, 2012