SFB TRR 102

Polymers under Multiple Constraints
The SFB 102 is a Collaborate Research Center at the Universities of Halle and Leipzig. Our focus is lying on open problems of polymer research which are characterized by the occurrence of strong correlations between local structure and global conformation of the chain. We investigate processes of structure formation and self-assembly of synthetic and biological chain molecules, for which the formation of molecular structures and the molecular dynamics are strongly affected by constraints like specific internal interactions, external forces, geometrical confinement, crowding or topological restrictions. Two prominent examples for such processes and central topics of the CRC are crystallization in the area of synthetic polymers and the formation of amyloids in the area of biopolymers.

Further information about our activities including the Integrated Research Training Group ‘Polymers: random coils and beyond’ can be found at: www.natfak2.uni-halle.de/sfbtrr102.

FORSCHERGRUPPE FOR 1145

Strukturbildung von synthetischen polyphilen Molekülen mit Lipidmembranen
Polymer-made nanostructures, assembled via chemical principles are a rapidly evolving field which enables to generate soft-materials with high diversity and significant advantages. Polyphilic ordering principles can be used to form and shape spatially complex morphologies, such as the formation of micro- and nano-compartments – a process widely known form Nature’s compartment-formation. The DFG-funded Forschergruppe FOR 1145 investigates principles of self-assembly in macromolecules, elucidating ordering principles of polyphilic macromolecules in phospholipid membranes. Seven projects investigate the molecular order as a result of interactions of polyphilic (macro)molecules with surrounding bilayer membranes, able to design and control the embedding of synthetic (macro)molecules into biological membranes.

Further information: www.chemie.uni-halle.de/for_1145

REGISTRATION
Registration will start with the second circular (approx. in May 2016).

SOCIAL PROGRAMME
The programme will include a get together and a conference dinner. Further information can be found in the second circular.

SCIENTIFIC PROGRAMME AND LOCAL ORGANISATION
Prof. Dr. Wolfgang H. Binder
Martin-Luther University Halle-Wittenberg
Faculty of Natural Sciences II
Von-Danckelmann-Platz 4
06120 Halle (Saale), Germany
Phone: +49 345 55-25930
Fax: +49 345 55-27392
Email: wolfgang.binder@chemie.uni-halle.de
Homepage: www.macrochem.uni-halle.de

INFORMATION AND LOCAL ORGANISATION
Prof. Dr. Dariush Hinderberger
Martin-Luther University Halle-Wittenberg
Faculty of Natural Sciences II
Von-Danckelmann-Platz 4
06120 Halle (Saale), Germany
Phone: +49 345 55-25230
Fax: +49 345 55-27576
Email: dariush.hinderberger@chemie.uni-halle.de

GENERAL INFORMATION
Gesellschaft Deutscher Chemiker e.V.
(German Chemical Society)
Claudia Birkner – Congress Team
P.O. Box 90 09 40
60444 Frankfurt am Main, Germany
Phone: +49 69 7917-366
Email: tg@gdch.de
Homepage: www.gdch.de/tagungen

Executive director: Professor Dr. Wolfram Koch
Registered charity no: VR 4453 · Registergericht Frankfurt am Main

(date: February 4, 2016)
This year’s conference focus is “Molecular organisation in polymers: functional self assembly”.

New materials require a profound control of molecular order caused by interactions between polymer chains and their environment. As the use of polymers as functional materials often requires the implementation of additional properties not present within the initial monomer, designed molecular interactions are an asset to control structure formation of polymers and polymeric nanocomposites.

This meeting will address the self-assembly of functional polymers in bulk, in solution and at interfaces. The introduction of dynamic ordering principles within supramolecular polymers, biomimetic polymers and interfaces will be discussed, together with a special focus dedicated to graphene/nanocomposites, their interfacial ordering within polymers, as well as their final function.

The conference aims at bringing together experts from both academia and industry to present and discuss novel ideas, applications, latest breakthroughs, developments, opportunities, and challenges of self-assembly principles in polymers.

The scope of the conference covers all aspects of Polymer-Self-Assembly with a special focus on the synthesis of polymers, the assembly and ordering of supramolecular polymers, the molecular organisation within (graphene)-nanocomposites, as well as the resulting functional aspects with applications in materials and devices.

CONFERENCE VENUE
Martin-Luther University Halle-Wittenberg
Melanchthonianum
Universitätsplatz
06120 Halle (Saale)
Germany

ORGANISING COMMITTEE
C. Barner-Kowollik
Karlsruhe/DE
W. H. Binder
Halle (Saale)/DE, Chairman
D. Hinderberger
Halle (Saale)/DE
J. Kressler
Halle (Saale)/DE
G. Langstein
Leverkusen/DE
R. Schönfeld
Düsseldorf/DE
U. S. Schubert
Jena/DE

TOPICS
■ Self assembly aiming at exploitable function
■ Graphene / functional composites
■ Structural principles

LIST OF SPEAKERS
Volker Abetz
Hamburg/DE
Christopher Barner-Kowollik
Karlsruhe/DE
Pol Besenius
Mainz/DE
Hans Börner
Berlin/DE
Michael Bron
Halle (Saale)/DE
Michael R. Buchmeiser
Stuttgart/DE
Helmut Cölfen
Konstanz/DE
Xinliang Feng
Dresden/DE
Andreas Fery
Dresden/DE
Holger Frey
Mainz/DE
Jeremiah A. Johnson
Cambridge/US
LaShanda T. J. Korley
Cleveland/US
André Laschewsky
Potsdam/DE
Klaus Müllen
Mainz/DE
Rolf Mühlaupt
Freiburg/DE
Andrij Pich
Aachen/DE
Kay Saalwächter
Halle (Saale)/DE
Helmut Schlaad
Potsdam/DE
Ulrich S. Schubert
Jena/DE
Rint P. Sijbesma
Eindhoven/NL
Michael Sommer
Freiburg/DE
Andrey Turchanin
Jena/DE
Andrew Walther
Aachen/DE
Tanja Weil
Ulm/DE
Ingrid Weiss
Saarbrücken/DE
Frederik Wurm
Mainz/DE

SUBMISSION OF ORAL CONTRIBUTIONS AND POSTERS
Abstracts can be submitted to the topics online at www.gdch.de/makro2016
A sample abstract is to be found on this website. No revisions or corrections will be made by the scientific committee.
After a successful transmission, you will receive a reference code for each submitted abstract and a confirmation after the decision of the scientific committee.
The scientific committee reserves the right to accept or reject papers, and to assign them to oral or poster contribution.

DEADLINE
Submission of oral contributions March 30, 2016
Submission of posters July 31, 2016

SCHOLARSHIPS
It is planned to offer scholarships to a limited number of students, candidates for doctor, diploma, bachelor, or master degree presenting a scientific contribution (main author of an oral contribution or poster). Please send your application to the GDCh until July 31, 2016, latest. The form is to be found at: www.gdch.de/veranstaltungen/tagungen/stipendien

GENERAL MEETING
The general meeting of the GDCh-Division of Macromolecular Chemistry will take place on Monday, September 12, 2016 at 6 pm at the Melanchthonianum.

AWARDS
Hermann Staudinger award / Raimund Stadler award
Sunday evening (September 11, 2016, 5 pm) will be devoted to a special session including the Staudinger award and Stadler award ceremony (Stadthaus Halle).