BOCHUM

RUHR-UNIVERSITÄT BOCHUM

Ruhr-Universität Bochum is **one of Germany's leading research universities.** The University draws its strengths from both the diversity and the proximity of the different scientific disciplines at a single, coherent campus. This **highly dynamic setting** enables students and researchers to work across traditional boundaries of academic subjects and faculties. Host to about 34,000 students and about 4,700 staff, Ruhr-Universität is a vital institution in the Ruhr area.

TRAVEL INFORMATION

BY PLANE:

From Düsseldorf airport there is a direct train connection to Bochum main train stration. The travel time is approximately 30 minutes.

FROM BOCHUM MAIN TRAIN STATION

The underground line U35 connects Bochum main train station with the RUB Campus (direction Hustadt/ Querenburg).

BY CAR:

The RUB Campus can be reached by motorway A43/A44, junction Bochum/ Witten, exit Bochum-Querenburg.

Further information:
www.rub.de/angebote/besucher/index_en.html

DIRECTIONS

CAMPUS MAP

REGISTRATION

www.rub.de/for618/

DEADLINE FOR REGISTRATION:

15.04.2012

RUHR-UNIVERSITÄT BOCHUM
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Lehrstuhl für Organische Chemie II
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RUHR-UNIVERSITÄT BOCHUM

RUB

AGGREGATION OF SMALL MOLECULES
INTERNATIONAL SYMPOSIUM

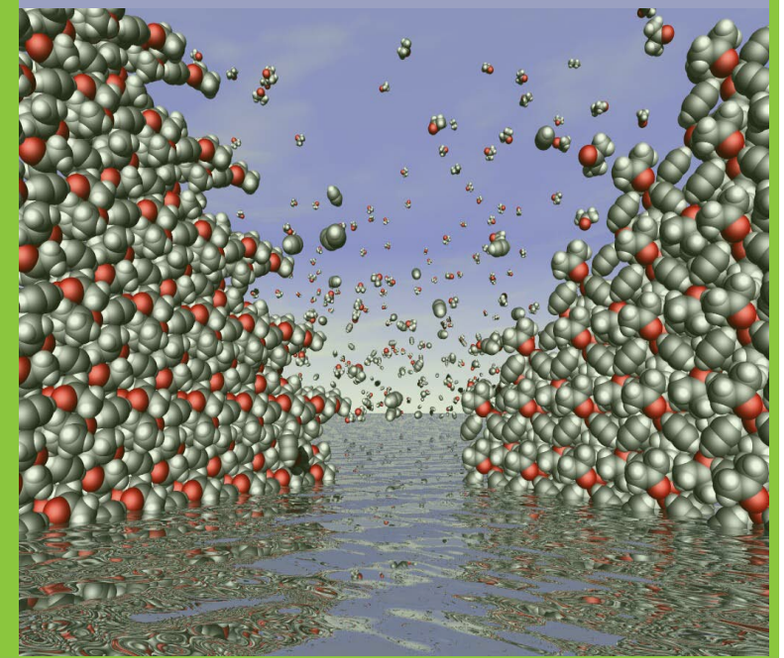
MAY 29 - 31, 2012

Department of Chemistry and Biochemistry
Ruhr-Universität Bochum, Germany

FOR 618

DFG

RESEARCH DEPARTMENT
Interfacial Systems Chemistry



INVITATION TO SYMPOSIUM

The **DFG Research Unit 618** is pleased to invite you to the international symposium

Aggregation of Small Molecules – from Dimers to Crystals

The symposium will discuss recent work of internationally leading scientists in the field of non-covalent interactions, and present the scientific achievements of the Research Unit 618 over the past six years.

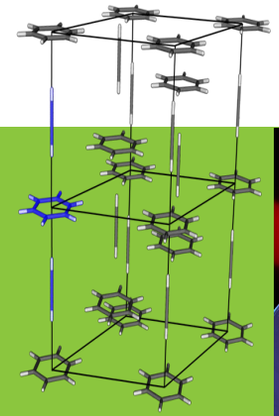
The Symposium will take place at the Ruhr-University of Bochum from **May 29th to 31st 2012.**

Guests are highly welcome! There are no conference fees, but please register at **www.rub.de/for618/** before April 15th 2012.

DFG RESEARCH UNIT 618

The aggregation of molecules via non-covalent interactions to form larger structures is a process of fundamental importance to many aspects of chemistry. Although this has been recognized since many years, only now the experimental and theoretical tools are available to gain the detailed insight necessary for an understanding of aggregation processes at the molecular level.

Researchers at the Universities of Bochum, Duisburg-Essen, and Düsseldorf combined their expertise in the fields of molecular beam and low temperature spectroscopy, synthesis, crystal engineering, electronic structure and ab initio simulation techniques, and founded the Research Unit 618 in January 2006. This project is funded by the Deutsche Forschungsgemeinschaft from 2006 to 2012.



SCIENTIFIC PROGRAM

INVITED SPEAKERS

- Roland Boese - University of Duisburg-Essen
  Crystalline Organic Hydrates - Frozen Stages of the Dissolution Process?
- Gautam Desiraju - Indian Institute of Science, Bangalore
  The Structural Landscape in Crystal Engineering
- Nikos Doltsinis- University of Münster
  Simulating aggregation from first principles
- Wolfgang Domcke - Technical University of Munich
  Ultrafast Nonadiabatic Photochemistry of Hydrogen Bonds in Organic and Biological Chromophors
- Gary E. Douberly - University of Georgia, USA
  Radical Containing Clusters in Helium Nanodroplets
- Stefan Grimme - University of Bonn
  Dispersion Corrected Density Functional Theory
- Martina Havenith-Newen - Ruhr-Universität Bochum
  Rock and Roll at 0.37 K
- Pavel Hobza - Academy of Sciences of the Czech Republic
  Noncovalent Interactions: QM and MM approaches
- Christopher Hunter - University of Sheffield, UK
  The Anatomy of Complex Recognition Interfaces
- Georg Jansen - University of Duisburg-Essen
  Properties of Small Molecular Aggregates from Analytical Model Potentials obtained through Quantum Chemistry
- Mark Johnson - Yale University, USA
  Capturing Reaction Intermediates with Cryogenic Ion Spectroscopy
- Manfred Kappes - Karlsruhe Institute of Technology
  The periodic table at 55 (and some structures of other atomic cluster sizes)
- Karl Kleinermanns - University of Duesseldorf
  Isomer Selective Vibronic Spectroscopy of Benzene-Acetylene Clusters – Towards a Better Unterstanding of Seed Crystal Formation
- Dominik Marx - Ruhr-Universität Bochum
  Aggregation-Induced Chemical Reaction: HCl-Water Aggregates in the Gas Phase and in Superfluid Helium
- Klaus Merz - Ruhr-Universität Bochum
  The Importance of Deuterium and Fluorine-Substituents on Molecular Aggregation Processes
- Karina Morgenstern - Ruhr-Universität Bochum
  Aggregation of molecules on surface: From coverage to chirality dependence
- Wolfram Sander - Ruhr-Universität Bochum
  Aggregation and Solvation of Radicals and other Reactive Intermediates
- Friedrich Temps - University of Kiel
  Noncovalent Interactions in the Ultrafast Dynamics of Electronic Excited DNA Building Blocks

GENERAL INFORMATION

LOCATION

The Symposium will take place at **RUB Conference Center**, floor 04, room 1. The location is marked on the enclosed map as „**Veranstaltungszentrum**“. For parking please use Car park P9.

PRELIMINARY PROGRAM

May 29	
18:00 - 21:00	Arrival, Reception, Evening Lectures
May 30	
9:00-12:00	Lectures
12:00-13:00	Lunch
13:00 - 18:30	Lectures
18:30	Dinner/ Poster Session
May 31	
9:00 - 12:00	Lectures
12:00	Closing Session/ Lunch