

GUEST SPEAKERS



MAXIM RYADNOV

TAR Leader and
Principal Research Scientist
National Physical Laboratory, UK
Lecturer in Chemical Physics
University of Edinburgh

Research Focus Areas:

- advanced materials
- biotechnology



MITSUHIKO SHIONOYA

Professor of Bioinorganic
Chemistry
The University of Tokyo

Research Focus Areas:

- programming metal arrays
- synthesis and functionalization
of molecular machines
- design and construction of
dynamic nano-space



FRANK WÜRTHNER

Professor of Organic Chemistry
Universität Würzburg

Research Focus Areas:

- photofunctional dye assemblies
- organic electronics and photo-
voltaics
- nanosystems for biomedicine

LOCATIONS

Talks

Takustraße 6, 14195 Berlin
Lecture Hall

Poster Session

Takustraße 6, 14195 Berlin

Dinner

Seminaris – CampusHotel
Takustraße 39, 14195 Berlin

Lunch

Takustraße 3, 14195 Berlin
Room 12.12

CONTACT

Center for Supramolecular Interactions (CSI)
Institute for Chemistry and Biochemistry
Freie Universität Berlin
Takustraße 3, 14195 Berlin
<http://www.fu-berlin.de/sites/en/csi/index.html>

Speaker

Prof. Dr. Beate Kocsch
e-mail: kocsch@chemie.fu-berlin.de
telephone: +49 (0)30 838 55344

Scientific Coordinators

Dr. Allison A. Berger / Dr. Jessica A. Falenski
e-mail: allison@zedat.fu-berlin.de
telephone: +49 (0)30 838 55472
Room 32.03

CSI / FU Berlin

Editors: Allison Berger / Jessica Falenski

Layout and Graphics: Achim Wiedekind

Photo: David Ausserhofer

Print: Sprintout Digitaldruck, Berlin

Second General Meeting

March 10-11, 2011

RESEARCH STATUS CONFERENCE



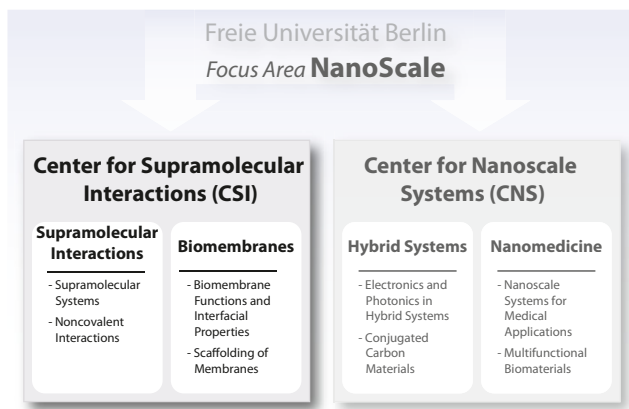
Center for
Supramolecular
Interactions

ABOUT THE CSI

The **Center for Supramolecular Interactions (CSI)** is a research collective based at the Freie Universität Berlin (FU Berlin) that unifies scientific expertise from chemistry, physics, and mathematics for the purpose of contributing to our basic understanding and goal-oriented application of supramolecular interactions. It was established in July of 2009 with funds from the Excellence Initiative (ExIn) of the German federal and state governments. These funds currently support a small staff and 16 highly interdisciplinary projects at the cutting edge of supramolecular science. The principle investigators of the CSI come from the FU Berlin, the Humboldt Universität zu Berlin, the Max Planck Institute for Colloids and Interfaces, the Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, and the Helmholtz-Zentrum Geesthacht - Teltow .

In addition to continuing and expanding its research activities, it is the goal of the CSI to establish an internationally networked educational program with a focus on supramolecular systems. To this end, the CSI has outlined a doctoral training concept and reached agreements with the Hebrew University of Jerusalem, the CSIRO (Australia), and the National University of Singapore.

The CSI is an integral part of the FU Berlin Focus Area Nanoscale Functional Materials (NanoScale), which was established in 2008 and encompasses the four research areas Biomembranes, Hybrid Systems, Nanomedicine, and Supramolecular Interactions.



PROGRAM

THURSDAY, MARCH 10TH

- 14:15 Opening Remarks
Beate Koksich
- 14:30 Functional Nanosystems Based on Dye Aggregates
Frank Würthner
- 15:30 The Good Vibrations of Membrane Protein Action
Joachim Heberle
- 16:00 COFFEE BREAK
- 16:30 Theoretical Description of Secondary Interactions in Crystals
Beate Paulus
- 17:00 Multidentate Benzoylthioureas as Building Blocks for Supramolecular Assemblies
Ulrich Abram
- 17:30 Supramolecular Polymer Macro- and Microgels
Sebastian Seiffert
- 18:00 Gas-Phase H/D-Exchange Reactions for the Investigation of Supramolecular Structure and Reactivity
Christoph Schalley
- 19:00 DINNER

- 11:00 Of Bowls and Balls
Dieter Lentz
- 11:30 Polymers for Control Freaks - Sequence-Defined Poly(amidoamines) and Their Biomedical Applications
Laura Hartmann
- 12:00 Controlling Neurotransmitter Molecules at Liquid / Solid Interfaces by Voltage
Neelima Paul
- 12:30 LUNCH
- 14:00 Design-Based Nano- to Submicron-Sized Supramolecular Assemblies
Mitsuhiko Shionoya
- 15:00 Dynamics and Function of Supramolecular Transporter Molecules
Ulrike Alexiev
- 15:30 Functionalization of Crystalline Surfaces by Adhesive Polymer-Peptide Conjugates
Hans Börner
- 16:00 COFFEE BREAK
- 16:30 Structure Determination of Supramolecular Architectures by Electron Microscopy
Christoph Böttcher

FRIDAY, MARCH 11TH

- 8:30 Prescriptive Peptide Design and Self-Assembly
Maxim Ryadnov
- 9:30 Synthesis of New Functionalized Bi- and Terpyridine Derivatives
Hans-Ulrich Reißig
- 10:00 COFFEE BREAK
- 10:30 Charge Transfer in Self-Assembled Donor-Acceptor Complexes at Surfaces
Katharina Franke

- 17:00 Metal Complexes as Stimuli-Responsive Linkers for Supramolecular Aggregates
Christoph Tzschucke
- 17:30 Transient Conformational Dynamics During the Pr Photoisomerization Process
Karsten Heyne
- 18:00 POSTER SESSION