

SPEAKERS

Prof. Daniel G. Nocera

Massachusetts Institute of Technology,
USA

Prof. Roy Periana

The Scripps Research Institute, USA

Prof. Rudolf Thauer

Max-Planck Institute, Marburg, Germany

Dr. Ivan Berg

University of Freiburg, Germany

Prof. Andrea Polle

University of Göttingen, Germany

Prof. Dieter Hanelt

University of Hamburg, Germany

Prof. Gerhard Bohrmann

University of Bremen, Germany

Dr. Matthias Haeckel

IFM-GEOMAR, Germany

Prof. Markus Antonietti

MPI of Colloids and Interfaces, Germany

Dr. Friedmann Müller

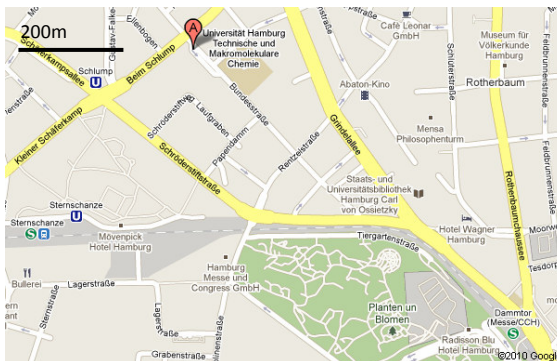
Stiftung Wissenschaft und Politik,
Germany

REGISTRATION

If you come from outside the Graduate School please register briefly by email (see under contact)

LOCATION:

Hörsaal d. Pharmazie
(Lecture Hall, ground floor)
University of Hamburg,
Institute for Technical & Macromolecular
Chemistry
Bundesstr. 45
20146 Hamburg



CONTACT:

Dr. M. Perner
Prof. G. Luinstra
Prof. P. Burger

Email : gsc1chem@chemie.uni-hamburg.de

Tel.: +49 (0) 40 42838 6006

Fax: +49 (0) 40 42838 6008

MORE INFORMATION ABOUT THE SCHOOL:

www.chemie.uni-hamburg.de/lexi/gsc1chem

FIRST SUMMER SCHOOL

GRADUATE SCHOOL

C₁-CHEMISTRY

FOR

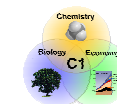
RESOURCE

AND

ENERGY MANAGEMENT



19. - 23. JULY 2010
UNIVERSITY OF HAMBURG



SUMMER SCHOOL PROGRAM

Monday, 19.07.2010

- 09:30 – 12.30 **Prof. Daniel G. Nocera**
Chemistry, Massachusetts Institute of Technology, USA *Chemistry of Renewable Energy*
- 14:00 – 15:15 **Prof. Markus Antonietti**
MPI of Colloids and Interfaces, Potsdam, Germany *Towards Artificial Photosynthesis: Organic Semiconductors, P450 Mimicks, and some Metal Nitrides*

Tuesday, 20.07.2010

- 09:30 – 12:30 **Prof. Roy Periana**
Chemistry, The Scripps Research Institute, USA *Approaches to one of the Most Valuable and Important Challenges Today; The C-H to C-O Bond Transformation*
- 13:00 – 14.30 **Dr. Friedmann Müller**
Stiftung Wissenschaft und Politik, Germany *Natural gas and oil security of supply under changing (geo-)political conditions*
- 15.00 – open end **Summer School Barbecue**

Wednesday, 21.07.2010

- 09:30 – 10:45 **Prof. Rudolf Thauer**
Microbiology, Max-Planck Institute for Terrestrial Microbiology, Marburg, Germany *Nickel, methane, archaea and the three princes of Serendip*
- 11:15 – 12:30 **Dr. Ivan Berg**
Microbiology, University of Freiburg, Germany *Autotrophic CO₂ fixation in Nature: pathways, rules and speculations*
- 15:00 – 16:15 **Prof. Andrea Polle**
Forest Botany & Tree Physiology, University of Göttingen, Germany *Elevated atmospheric CO₂: friend or foe for biological wood production?*

Thursday, 22.07.2010

- 09:30 – 10:30 **Prof. Dieter Hanelt**
Cell Biology and Phycology, University of Hamburg, Germany *Algae as economic plants*
- 11:00 – 12:00 *How efficient algal photosynthesis can work for production of renewable energy or biofuels*
- 14:00 – 17:30 **Field Trip to the Microalgae Pilot Plant in Hamburg-Reitbrook (SSC GmbH and E.ON Hanse AG)**

Friday, 23.07.2010

- 09:30 – 10:45 **Prof. Gerhard Bohrmann**
Geology, MARUM, University of Bremen, Germany *Natural marine gas hydrates - formation, detection and relevance*
- 11:15 – 12:30 **Dr. Matthias Haeckel**
Marine Biogeochemistry, IFM-GEOMAR, Kiel, Germany *Marine Gas hydrates - New energy resource and hope for CO₂ storage or climate disaster?*