

How to get to the Conference Center Universitätsstr. 150, 44801 Bochum: The best thing is to travel to the RUB-Station (U 35) and then go by foot. Walk past the university library and the Audimax, keep walking south and take the stairs next to the Mensa in order to get to the Conference Center (Veranstaltungszentrum). Alternatively you can also take the elevator inside the Mensa (Bistro).



RUHR-UNIVERSITY BOCHUM  
Conference Center



# PROGRAM

## Monday, 25<sup>th</sup> May 2015

18:00 **Arrival and Welcome**

## Tuesday, 26<sup>th</sup> May 2015

### Advanced Modules

theoretical and experimental hands-on courses at participating institutes

## Wednesday, 27<sup>th</sup> May 2015

### Advanced Modules

theoretical and experimental hands-on courses at participating institutes

This Summer School is held in conjunction with the following institutes:



## Thursday, 28<sup>th</sup> May 2015

- 09:00 **Marcus Petermann**, RUB (DE)  
*„Welcome to the Summer School Solvation Science“*
- 09:15 **Nicolas Plumere**, RUB (DE)  
*„Introduction into the basic concepts of electrochemistry“*
- 10:45 Coffee Break
- 11:15 **Candace Chan**, Arizona State Univ. (USA)  
*„Solid-electrolyte interphases in high energy density silicon-based lithium battery electrodes“*
- 12:00 **Katrin Domke**, MPI Polymer Research (DE)  
*„Raman under water - pushing sensitivity and spatial resolution“*
- 12:45 Lunch
- 14:15 **Janne Savolainen**, RUB (DE)  
*„Introduction into the basic concepts of THz spectroscopy“*
- 15:45 Coffee Break
- 16:15 **Robert Falconer**, Univ. of Sheffield (UK)  
*„The Application of Microcalorimetry and Terahertz Spectroscopy to Study the Interaction between Proteins, Cosolutes and Water“*
- 17:00 **Charles Schmuttenmaer**, Yale Univ. (USA)  
*„The Nuts and Bolts of Probing Liquid Dynamics and Low Frequency Modes of Organic Molecular Crystals with THz Spectroscopy“*
- 17:45 Dinner in RUB Conference Center
- 18:30 **Klaus Roth**, FU Berlin (DE)  
*„Beer - from the first glass to a hangover“*

## Friday, 29<sup>th</sup> May 2015

- 09:15 **Bill Morandi**, MPI for Coal Research (DE)  
*„Introduction into the basic concepts of organic catalysis“*
- 10:45 Coffee Break
- 11:15 **Stefan Matile**, Univ. of Geneva (CH)  
*„Unorthodox Interactions in Organocatalysis“*
- 12:00 **Karl Anker Jørgensen**, Univ. of Aarhus (DK)  
*„Organocatalysis as a toolbox for diversity-oriented synthesis“*
- 12:45 Lunch
- 14:15 **Lars Schäfer**, RUB (DE)  
*„Introduction into the basic concepts of MD simulations“*
- 15:45 Coffee Break
- 16:15 **Marie-Pierre Gaigeot**, UEVE (F)  
*„Solvation and vibrational spectroscopy at solid oxyde/liquid water interfaces from AIMD simulations“*
- 17:00 **Mark Tuckerman**, New York Univ. (USA)  
*„Going down to Feynman's path: A first-principles approach to nuclear quantum effects in solvation and transport“*
- 17:45 Closing
- 18:00 Barbecue at Beckmanns Hof

