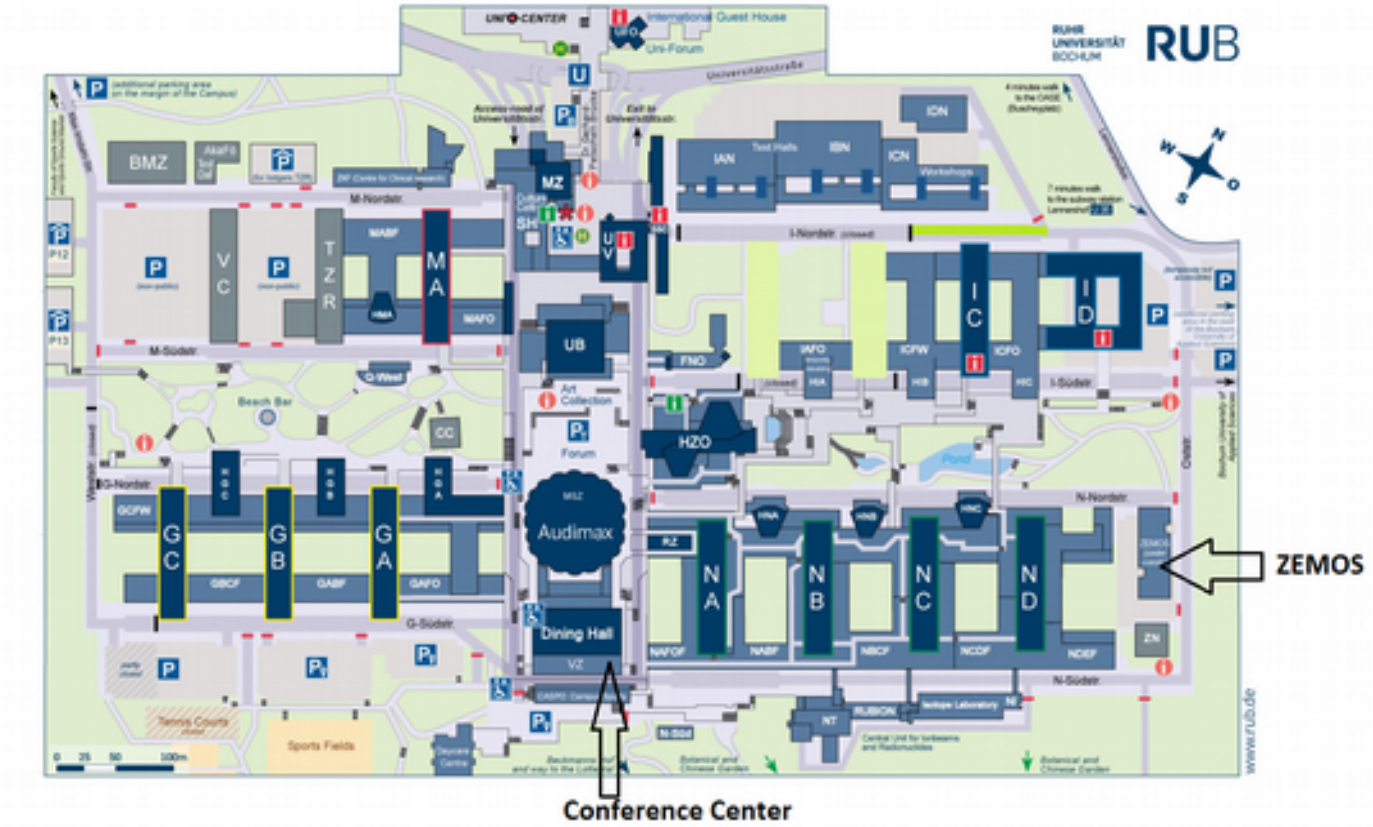
WELCOME TO THE RUHR-UNIVERSITY BOCHUM

Arrival by train

From the main train station in Bochum, take the subway line U35 to Hustadt, exiting at the stop "Ruhr-Universität". You will need “Preisstufe A” ticket. The travelling time from the main train station to the University is about 10 minutes. At the subway stop, go up the steps, then turn right. At the end of the bridge pass the administration building and you will reach the library of the Ruhr-University. Pass this building on the left side (go down the stairs) and you will reach the so called "Forum" including the Audimax. Come closer to the Audimax until it is directly to your right. Turn to the left and pass the building NA (Mathematics). Go down the spiral stairs, pass the NB building and follow the way up to the NC building (Chemistry). Here go down again spiral stairs and follow the way to the ND building. Go into the ND building, go down the stairs inside the building one floor and leave the building on the ground floor. Walk down the street to the ZEMOS building and enter the building from the side indicated by the arrow on the campus map.



RUHR-UNIVERSITY BOCHUM
Cluster of Excellence RESOLV

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RUHR-UNIVERSITÄT BOCHUM

RESOLV
RUHR EXPLORES SOLVATION
CLUSTER OF EXCELLENCE - EXC 1069

RUB

Summer School Solvation Science

„**R**uhr **E**xplores **Solv**ation“

17th – 20th May 2016

Ruhr-University Bochum

ZEMOS

Tuesday, 17th May 2016
(venue: ZEMOS)

"In Situ and Operando Characterization of liquid-solid interfaces"

08:00 Registration

08:45 **Beatriz Roldan Cuenya**, RUB (GER)
"Opening remarks"

09:00 **Ib Chorkendorff**, TU Denmark (DK)
"Electrocatalysis for Energy Conversion"

10:00 **Coffee Break**

10:30 **Niels De Jonge**, INM (GER)
"Electron microscopy of cells, membrane proteins and nano materials in liquid"

11:30 **Nenad Markovic**, Argonne National Lab. (USA)
"Interfacing Electrochemistry"

12:30 **Lunch**

13:45 **Hendrik Bluhm**, LBL (USA)
"Liquid/solid interfaces investigated by X-ray photoelectron spectroscopy"

14:45 **Daniel Friebel**, SLAC National Accelerator Lab. (USA)
"In situ and operando x-ray and electron spectroscopy in electrocatalysis"

15:45 **Coffee Break**

16:15 **Vojislav Stamenkovic**, Argonne National Lab. (USA)
"Tailored Electrochemical Interfaces"

17:15 **Beatriz Roldan Cuenya**, RUB (GER)
"In situ and Operando characterization of model nano-structured electrocatalysis with tunable activity and selectivity"

Wednesday, 18th May 2016
(venue: ZEMOS)

"Nanostructured Electrocatalysts-from fundamental understanding to solar fuels"

08:30 **Marc Koper**, Leiden University (NL)
"Proton-coupled electron transfer in the electro-catalysis of carbon dioxide reduction"

09:30 **Boon Siang Yeo**, NUS (SG)
"Developing and understanding Cu-based catalysts for the selective electroreduction of carbon dioxide to C2 and C3 products"

10:30 **Coffee Break**

11:00 **Andrew Peterson**, Brown University (USA)
"Understanding electrocatalytic reactions from an atomistic viewpoint "

12:00 **Kristina Tschulik**, RUB (GER)
"Nano-Electrochemistry: from Ensemble to Single Particle Studies"

12:45 **Lunch**

14:00 **Jaeyoung Lee**, GIST (KR)
"Electrode build-up of Metal-Oxidized Composites toward Achievable Electrochemical Conversion Process of CO_2"

15:00 **Juan Feliu Martinez**, University of Alicante (ES)
"Pt(III)/water solution interfaces in absence of anion adsorption"

16:00 **Coffee Break**

16:30 **Phil N. Barlett**, University of Southampton (UK)
"Electrochemistry in supercritical solution"

17:30 **Wolfgang Schuhmann**, RUB (GER)
"Electrocatalysis and bioelectrocatalysis: distinction without a difference"

Thursday, 19th May 2016
(venue: Conference Center)

"Theoretical Aspects of Solvation Thermodynamics" & "Experimental Techniques for Studying Solvent Effects on Optical Activity"

08:45 **Matthias Heyden**, MPI-KOFO (GER)
"Solvent contributions to the free energy"

09:25 **Dor Ben-Amotz**, Purdue University (USA)
"Water-mediated hydrophobic interactions"

11:00 Opening ceremony-ZEMOS

11:30 **Lunch**

13:30 **Richard Henchman**, Univ. of Manchester (UK)
"Dissecting Solution Structure to determine Solution Entropy"

14:25 **Coffee Break**

14:55 **Christian Merten**, RUB (GER)
"Sovent effects on vibrational optical activity"

15:35 **Patrick Vaccaro**, Yale University (USA)
"Intrinsic Optical Activity and the Long Road to Solvation"

16:30 **Melanie Schnell**, MPSD (GER)
"Chirality and (micro)solvation studied by broadband rotational spectroscopy"

18:00 **Barbeque in Beckmanns Hof at RUB**

Friday, 20th May 2016
(venue: Participating Institutes)

Advanced Modules

Theoretical and Experimental hands-on courses at participating institutes

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