

## Program Summer School Solvation Science 2022

**Tuesday, June 7<sup>th</sup> – @Lecture Hall – HIC**

08:15 – 09:00

**Registration**

09:00 – 09:15

**Welcome: Dr. Martin Rabe**

ECR Board, Max-Planck-Institut für Eisenforschung, GER

**Catalysis at Charged Interfaces, Chair: Moreno Ascani**

09:15 – 09:55

**Dr. Simone Pezzotti**, Ruhr-University Bochum, GER

*„Adsorption of ions and hydrophobic solutes at an electrified Au-water interface: insights from THz spectroscopy and simulations*

~~Dr. Nicolas Hörmann~~, Fritz Haber Institute – Max Planck Gesellschaft, GER

~~“Recent insights from atomistic models of electrochemical solid-liquid interfaces”~~

**09:55 – 10:45 Coffee Break**

10:45 – 11:45

**Prof. Dr. Marc Koper**, Leiden University, NL

*“Double layer and electrolyte effects in electrocatalysis on Pt and Au electrodes”*

11:45 – 12:45

**Prof. Dr. Olga Kasian**, Helmholtz Zentrum Berlin, GER

*“Structure-function properties of electrocatalysts for energy conversion and storage at atomic scale”*

**12:45 – 14:15 Lunch Break**

**Biomolecule Solvation, Chair: Daniel Pabsch**

14:15 – 15:15

**Prof. Dr. Sereina Riniker**, ETH Zurich, CH

*“Advances in Molecular Dynamics for the Study of Biomolecular Processes”*  
(Remote talk)

15:15 – 16:15

**Jun.-Prof. Dr. Franziska Thomas**, University of Heidelberg, GER

*“Structural and functional engineering of WW domains”*

**16:15 – 16:45 Coffee Break**

16:45 – 17:45

**Prof. Dr. Enrica Bordignon**, University of Geneva, CH

*“Coupling between protein dynamics and hydration waters in the activation of a toxin and in liquid-liquid phase separation”*  
(Remote talk)

**18:00 – 21:00 Welcome dinner @ Beckmannshof**

## Wednesday, June 8<sup>th</sup> – @Lecture Hall – HIC

09:00 – 09:15 **Welcome: Dr. Ana Vila Verde**  
ECR Board, University of Duisburg-Essen, GER

### *Interface Solvation and Solvation under Confinement, Chair: Moreno Ascani*

09:15 – 10:15 **Prof. Dr. Douwe Jan Bonthuis**, TU Graz, AU  
*“Ion solvation in bulk and at interfaces: from macroscopic thermodynamics to molecular models and back”*

10:15 – 11:15 **Prof. Dr. Satoshi Nihonyanagi**, RIKEN, JP  
*“Structure and dynamics of water at interfaces”*

11:15 – 11:30 **Coffee Break**

11:30 – 12:30 **Prof. Dr. Jonathan Nitschke**, University of Cambridge, UK  
*“Chemical purifications using coordination cages”*

12:30 – 14:00 **Lunch Break**

### *Molecular/Biology Systems under Extreme Conditions, Chair: Abhishek Kalarikkal*

14:00 – 15:00 **Prof. Dr. Roland Winter**, TU Dortmund, GER  
*“Biomolecules under Stress – Life at Extreme Conditions”*

15:00 – 16:00 **Prof. Dr. Lorna Dougan**, University of Leeds, UK  
*“Exploring the structure of water in extreme environments”*  
*Canceled*

16:00 – 16:30 **Coffee Break**

16:30 – 17:30 **Prof. Oscar Millet**, CIC bioGUNE, ES  
*“On the mechanism of haloadaptation: Proteins with a pinch of salt”*

17:30 – 18:00 Award Ceremony *“Solvation Science Student Challenge”*

18:00 – 20:00 Get-together at @ZEMOS

## Thursday, June 9<sup>th</sup>

### *Workshop Part*

09:00 – 12:30 **“Stress management”** – How to achieve more tranquility (ZEMOS 2.45)

*in parallel* **“Team work & leadership in academia”** – Team player-key player-head coach (ZEMOS 0.17/0.19)

**“Networking in the academic context”** – Building & cultivating contacts by traditional and digital means (NCDF 03/399)

**“Stage fright”** – Reclaiming sovereignty and confidence (NC 02/126)

**“Intercultural competence”** – Avoiding misunderstandings – making the most of diversity (online)

12:30 – 13:45 Lunch Break

*Career Part, Moderator: Sandra Romero Molina*

## @Lecture Hall – HIC

14:00 – 14:10 Welcome

14:10 – 14:35 **Dr. Thorsten Schaefer** – Manager Patents & Licences at PROvendis GmbH

14:35 – 15:00 **Dr. Ralph Marquardt** – Senior Vice President and General Manager Comfort & Insulation at Evonik Operations GmbH

15:00 – 15:25 **Dr. Andreas H. Göller** – Principal Scientist at Bayer AG Research & Development, Pharmaceuticals

15:25 – 15:50 **Dr. Sadra Ol Gheta** – Research Scientist at Bayer AG Research & Development, Pharmaceuticals

15:50 – 16:20 Coffee Break

16:20 – 18:00 Panel discussion with **Dr. Thorsten Schaefer, Dr. Ralph Marquardt, Dr. Andreas H. Göller, Dr. Sadra Ol Gheta and Jennifer Heymann** (Head of Business Innovation and Strategy at Evonik Operations GmbH)

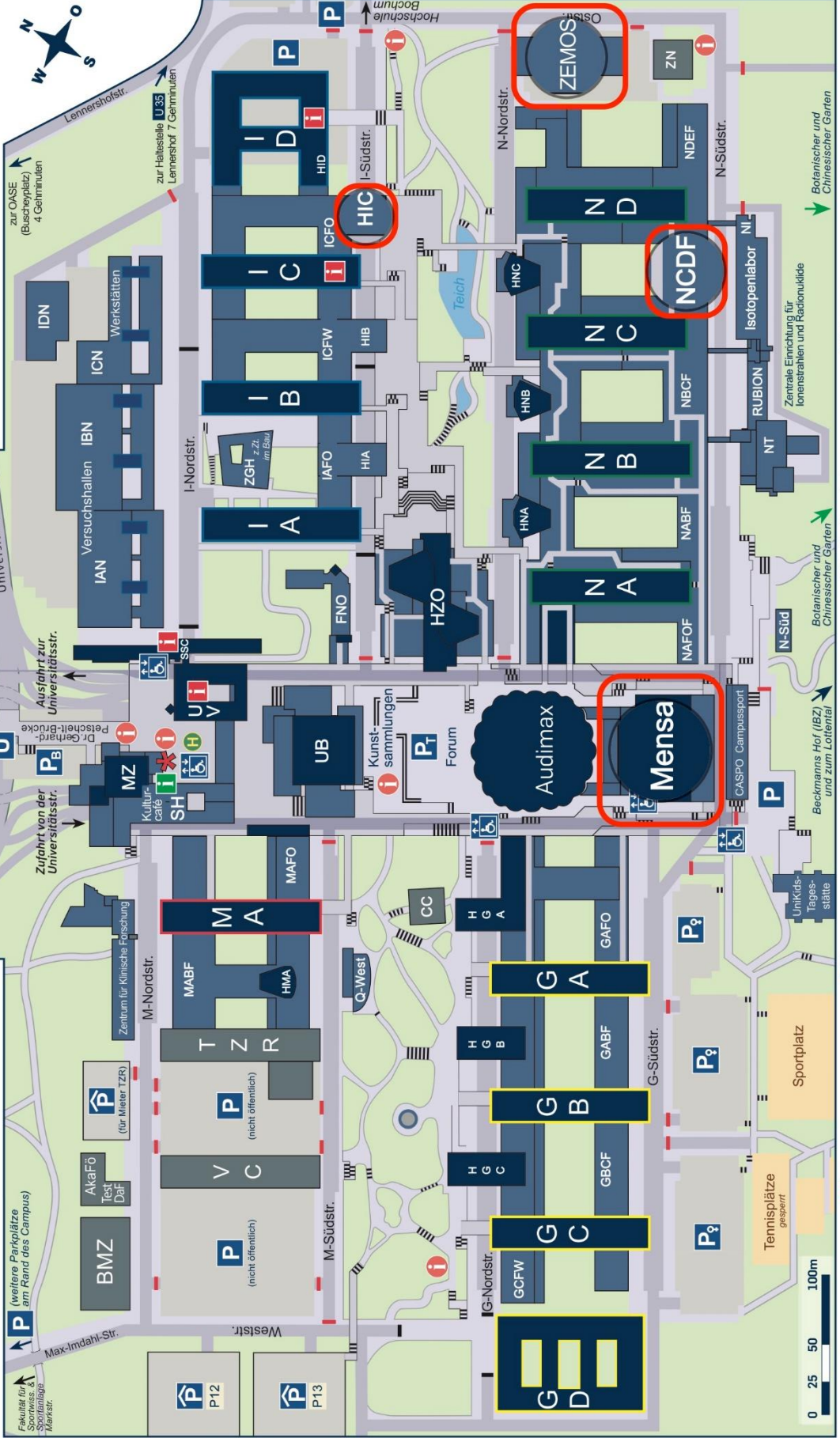
18:00 – 21:00 Get-together BBQ at @ZEMOS

## Friday, June 10th

*RESOLV's participating institutes*

[Advanced Laboratory Modules >](#)

# CAMPUSPLAN



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|--|---------------------|--|----------------------------------|
|  | Fußweg              |  | Information                      |
|  | Treppe              |  | interne Information              |
|  | Straße              |  | Info-Tel.                        |
|  | Straße unter Campus |  | Außenparkplatz                   |
|  | Mauer               |  | Bushaltestelle                   |
|  | Grünfläche          |  | Schranke (Zufahrt eingeschränkt) |
|  |                     |  | Zufahrt gesperrt                 |
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- |  |  |  |  |
|--|--|--|--|
|  | Parkhaus                                     |  | U-Bahn-Haltestelle   |
|  | Parkplatz                                    |  | Studienhaus  |
|  | Frauenparkplatz                              |  | Studierenden-Service-Center                                  |
|  | Besucherparkplatz                            |  | Technologiezentrum Ruhr                                      |
|  | Zentrales Parkhaus (Tiefgarage unter Campus) |  | Universitätsbibliothek                                       |
|  |  |  | Universitätsverwaltung                                       |
|  |  |  | Vita Campus  |
|  |  |  | Veranstaltungszentrum  |
|  |  |  | Zentrum für Grenzflächenmodifizierte Hochleistungswerkstoffe |
|  |  |  | Zentrum für Neuroinformatik                                  |
|  |  |  | IT-SERVICES  |
- 
- Erläuterungen:**  
 GA, IA, MA, NA = Hauptgebäude der Gebäudezeilen  
 Leitfarben: Kontur gelb = G-Reihe; rot = M-Reihe; blau = I-Reihe; grün = N-Reihe  
 GAFO = Flächbereich des Gebäudes GA (Beispiel)  
 HIA = Hirsaal des Gebäudes IA (Beispiel)  
 Erklärung (Beispiel): NA 1/128: Gebäude NA, Etage 1, Raum 128  
 Anmerkung: Etage 1 = 1.Obergeschoss; Etage 01 = 1.Untergeschoss  
 nach unten über Aufzug oder Treppen zum Druckzentrum und  
 sowie 320, 370, 377

