Program Summer School Solvation Science 2022

Tuesday, June 7th – @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 8th – @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  
*Canceled*  
“Exploring the structure of water in extreme environments”

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 9th

*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 >](#)