

Program Summer School Solvation Science 2024

Tuesday, May 21st – @ ZEMOS 0.17/0.19

09:00 – 09:30 **Registration**

09:30 – 09:35 **Welcome: Dr. Mario Wiesenfeldt**
ECR Board & Ruhr-Universität Bochum

Solvation in Catalysis

Chair: Taritra Mukherjee

09:35 – 10:35 **Dr. Maksim Plekhanov,**
RWTH Aachen University, DE
“Uncovering the local structure of liquids and disordered phases with pair distribution function analysis”

10:35 – 11:00 **Coffee Break**

11:00 – 12:00 **Dr. Josep Cornella,**
Max-Planck-Institut für Kohlenforschung, DE
“Advancing Bismuth Redox Catalysis”

12:00 – 13:30 **Lunch Break**

Afternoon: Welcome event: Excursion to Altena Castle

13:45 – 14:45 Bus transfer to the medieval hilltop castle of Altena

15:00 – 16:45 Altena castle is one of the loveliest hilltop castles in Germany. For centuries it has sat enthroned up on the Wulfsegge and has been the eponym and symbol of Altena. Guided tour of the permanent exhibition, including an introduction to the history of the Altena castle, a view at the castle chapel, as well as an insight into the lifestyle of knights and noblemen.

17:15 – 19:00 Welcome dinner “Road Stop Dortmund”

19:00 – 20:00 Return to RUB

Wednesday, May 22nd – @ ZEMOS 0.17/0.19

09:00 – 09:05 **Welcome: ECR Board**
ECR Board, Institution

Solvation in Catalysis

Chair: Taritra Mukherjee

09:05 – 10:05 **Prof. Dr. Cristina Trujillo Del Valle,**
The University of Manchester, UK
Computational Insights into the Role of Solvent in Catalysis: Methods and Applications

Solvation in Green/Sustainable Chemistry

Chair: Sunita Mondal

10:05 – 11:05 **Assoc. Prof. Ian C. Bourg,**
Princeton University, US
“Why mud is sticky “

11:05 – 11:30 **Coffee Break**

11:30 – 12:30 **Prof. Dr. Kristina Tschulik**
Ruhr University Bochum, DE
“TBA“

12:30 – 14:00 **Lunch Break**

14:00 – 15:00 TBA
Institute
“TBA”

15:00 – 15:30 **Coffee Break**

Solvation in Medicinal/Biomolecular Chemistry

Chair: Dila Kurtul

15:30 – 16:30 **Prof. Dr. Nick Le Brun,**
University of East Anglia, UK
“Native mass spectrometry of metallo-proteins: mechanistic insights from desolvated gas phase ions”

Diversity event

- 16:30 – 17:00 **Ashwini (Ash) Walde**
“Inclusive Futures: Advancing Gender Equality in the workplace”
- 17:00 – 17:20 TBA
- 17:20 – 17:30 Award Ceremony "Student Challenge Solvation Science"
- 17:30 – 18:30 **Poster session (international students)
and parallel Get-together at the ZEMOS Foyer**
- 18:30 – 20:00 **Scientific movie night (optional for participants)**
“iHUMAN: First we create technology, then it recreates us.”
- An explosive real-life political thriller, iHUMAN gives deep access to the booming Artificial Intelligence (AI) industry. It illuminates how the most powerful and far-reaching technology of our time is changing our lives, our society and our future. iHUMAN asks us all: in an AI age, what does it mean to be human? From information control to deepfakes, iHUMAN gives unprecedented access to the experts on the frontlines of this technology, and unique insight into the minds that are leading the revolution. AI can make our lives easier, but at what cost?

Thursday, May 23rd – @ ZEMOS 0.17/0.19

- 09:30 – 09:35 **Welcome: ECR Board**
ECR Board, Institution

Solvation in Medicinal/Biomolecular Chemistry

Chair: Dila Kurtul

- 09:35 – 10:35 **Prof. Dr. Amish Patel**
University of Pennsylvania, USA
“Characterizing Protein Interactions to Inform its Interactions”
- 10:35 – 11:00 **Coffee Break**
- 11:00 – 12:00 **PD Dr.-Ing. Christoph Held**
TU Dortmund University, DE
“Thermodynamics of Pharmaceutical Formulations”
- 12:00 – 13:30 **Lunch Break**

Career Part

Moderator: TBA

13:30 – 17:30 **Career part** with Professionals from Industry and Start-up

Closing: ECR Board

ECR Board, Institution

17:30 – 21:00 **Get-together BBQ** at Beckmanns Hof

Friday, May 24th

RESOLV's participating institutes.

[Advanced Laboratory Modules >](#)