





Program Summer School Solvation Science 2021

Tuesday, May 25th

Gather.town/Zoom

08:30 – 09:00 Self check-in at Gather.town

09:00 – 09:15 *Welcome: Martin Rabe*

ECR Board, Ruhr-Universität Bochum, GER

Ultrafast Spectroscopic Methods to Investigate Solvation Dynamics, Chair: Janine Kamps

09:15 – 10:15 Sascha Schäfer, Universität Oldenburg, GER

"Imaging ultrafast dynamics by time-resolved transmission electron microscopy"

10:15 - 10:45 Coffee Break

10:45 – 11:45 Ellen Backus, University of Vienna, AU

"Interfacial vibrational dynamics of soft matter probed with time-resolved sum

frequency generation spectroscopy"

11:45 – 12:45 Malte Oppermann, École Polytechnique Fédérale de Lausanne, CH

"A new twist for ultrafast optical spectroscopy: Using molecular chirality to

track structural dynamics in solution"

12:45 – 14:15 Lunch, Icebreaker event Moderator: Célia Millon

Solvation of Electron-rich and Electron-deficient Systems, Chair: Julian Kleinhaus

14:15 – 15:15 **Viktoria Däschlein-Gessner**, Ruhr-Universität Bochum, GER

"Metallated Ylides: From Electron-rich to Electron-deficient Main Group

Compounds"

15:15 – 16:15 **Robert Mulvey**, University of Strathclyde, Glasgow, UK

"Alkali Metal Mediation in Synthesis and Catalysis"

16:15 - 16:45 Coffee Break

16:45 – 17:45 **Jeehiun Lee**, Rutgers University, NJ, USA

"Understanding Solvation through Gas Phase Studies"

Wednesday, May 26th

Gather.town/Zoom

Solvation of Electron-rich and Electron-deficient Systems, Chair: Laura Krause

09:00 – 09:15	Welcome: Ana Vila Verde ECR Board, University of Duisburg-Essen, GER
09:15 – 10:00	Dietmar Stalke , Universität Göttingen, GER "Is the solid state structure of any help to determine the structure in solution?"
10:00 – 11:00	Gerhard Erker, Universität Münster, GER "Frustrated Lewis Pair Chemistry: Searching for New Reactions"
11:00 – 11:30 Coffee Break	
11:30 – 12:30	Holger Braunschweig , Universität Würzburg, GER "Borametallomimetics – Activation of Small Molecules by Low-Valent Boron Species"
12:30 – 14:00 Lunch	Break, Yoga course (13:15-13:45, Trainer: Irina Freihold)

Ultrafast Spectroscopic Methods to Investigate Solvation Dynamics, Chair: Richard Beckmann

14:00 – 15:00	Jochen Küpper, DESY Hamburg, GER "Unraveling ultrafast dynamics of microsolvated molecules"
15:00 – 16:00	Foivos Perakis , University of Stockholm, Sweden "Structural dynamics of supercooled water and aqueous solutions using coherent x-ray scattering"
16:00 – 16:30 Coffee Break	
16:30 – 17:30	Tanja Cuk, University of Colorado Boulder, NREL, USA "Resolving a catalytic mechanism at an electrode surface with high time resolution: Experimental identification of theoretical descriptors"

Thursday, May 27th

Gather.town/Zoom

Career Day

Group and panel discussions with guests from chemical industry and company founders.

09:00 – 09:15 Welcome and Moderation: Michael Römelt
ECR Group Leader, Ruhr-Universität Bochum, GER

09:15 – 10:30 20-minute presentations by guest professionals

10:30 – 11:00 Coffee Break

11:00 – 12:20 20-minute presentations by guest professionals

12:20 – 13:30 Lunch

13:30 – 15:00 Breakout discussion with the professionals

15:00 – 17:00 Panel discussion

Friday, May 28th

Gather.town/Zoom

Video-series SolvationMethods@Lab

09:00 – 09:15 Welcome: Christopher Stein

ECR Board, University of Duisburg-Essen, GER

09:00 – 12:00 Video-series and self-study

12:00 - 13:30 Lunch

13:30 – 14:30 Sequential Poster presentations, *Moderator: Raffaella Papagna*

14:30 - 15:00 Coffee break

15:00 – 17:00 Parallel Poster & Method discussions

Closing remarks: Organization Committee and Martin Rabe