

CMWS WATER DAYS 2024

Location: FLASH seminar room, building 28c, DESY
Programme

Monday February 26

Welcome and General CMWS Session

13:30	Registration	Chair: Melanie Schnell (DESY/CAU)
14:00	H. Dosch, F. Kärtner	Welcome to DESY and Photon Science
14:20	M. Schnell (DESY/ CAU)	Status & Future of CMWS
14:40	S. Trippel, S. Techert, C. Goy, S. Bari	CMWS Infrastructure updates at DESY
15:20	H. C. Wille (DESY), G. Grübel (EuXFEL)	Topical water calls for PETRA III, FLASH and European XFEL, Discussion
15:50	Coffee break	Chair: Iain Wilkinson (HZB)
16:20	S. Toleikis (DESY)	FLASH2020+, FLUXS instrument for liquids
16:40-	N. Prisle (U Oulu)	Water - the "dark matter" of the atmosphere
17:25		

18:00 Poster Session & Dinner

Tuesday February 27

Chair: Annette Pietzsch (HZB)

09:00	A. Gierke (DESY/ EuXFEL)	A liquid jet environment for studying pre-hydrate cage formation at EuXFEL
09:20	R. Bauer (DESY/ TU Freiberg)	Prehydrate cages to bentonite gel formation: a look at water (in) structures
09:30	L. Mohrbach (DESY)	Reduced thermal conductivity of water ice in planetary interior conditions
10:00	Coffee break	Chair: Bridget Murphy (CAU)
10:30	J. Küpper (DESY/ UHH)	Ultrafast elementary steps of microsolvation and radiation-protection dynamics
11:15	P. Huber (DESY/ TUHH)	BlueMat: A Research Initiative on Water-Driven Materials
11:35	F. Matroodi (Elettra Sincrotrone)	Probing hydration water and ionic aggregation by UV resonance Raman spectroscopy
12:00	Group picture	
12:10	Lunch break	Chair: Eva Gougoula (DESY)
13:25	J. Valerio (EuXFEL)	Aqueous sample delivery at EuXFEL
13:45	E. J. Mascareñas (HZB)	Time-resolved X-ray absorption spectroscopy of the photoaquation reaction of cobalt(III) hexacyanide
14:05	J. Fraxedas (ICN2 Barcelona)	Collective motion of microfabricated Nafion micromotors in water
14:25	S. Mukherjee (RU Bochum)	Atomistic simulations quantify thermodynamic contributions of water and proteins in the liquid-liquid phase separation of proteins
14:45	Coffee break	Chair: Sergio Speziale (GFZ)

15:15	V. Artemov (EPFL)	Aqueous Interfaces for Sustainable electric energy storage
15:35	V. V. da Cruz (HZB)	Extracting hydrogen-bonded potential energy curves from vibrationally-resolved RIXS measurements of water and amorphous ice
15:55-	V. Filiz (Heron), M. Usman (TUHH)	Joined talk: "Polymer membranes for water treatment" and "Conductive membranes for removal of organic water constituents in drinking water treatment"

19:00 Public evening lecture (in German), DESY Auditorium, building 5:

"Energieträger Wasser"

Simone Techert (U Göttingen/DESY)



Wednesday February 28

Chair: Florian Trinter (FHI)

09:00	D. Diaman (DESY/ FHI Berlin)	Electron-nuclear coupling of glycine in aqueous solution
09:20	F. Berggötz (DESY)	Investigating chiral molecules in the gas phase using microwave spectroscopy
09:40	E. Breynaert (KU Leuven)	Strategic deployment of CMWS in funding initiatives
10:00	Coffee break	

Chair: Claudia Goy (DESY)

10:40	F. Caddeo (DESY)	Photocorrosion in CuBi ₂ O ₄ monitored by operando surface-sensitive x-ray scattering
11:00	L. Inhester (DESY)	Ultrafast x-ray absorption spectroscopy of liquid water: Insights into electron solvation and interpretation of x-ray emission spectrum
11:20	L. Petterson (U Stockholm)	Structure Determination by Simultaneous Fitting to Multiple Experimental Data Sets
12:05- 12:15		Wrap-up

After 14:00 Pillar Meetings