

CMWS DAYS 2022, March 02-04

Wednesday 02.03.2022: CMWS Meeting Day 1

Plenary Session I

13:00	M. Schnell (DESY/CAU) G. Grübel (DESY)	Welcome 10 Min Video H. Dosch (DESY)
13:15	M. Schnell (DESY/CAU) G. Grübel (DESY)	Status & Future CMWS
13:45		Discussion
14:00	M. Schnell (DESY/CAU)	“FUNKMEM - Proposal for the Helmholtz Sustainability Call”
14:30	E. Weckert (DESY)	CMWS & PETRA IV
14:45	Y. Joseph, R. Bauer, M. Zarejousheghani (TUB Freiberg)	“Freiberg Center for Water Research (ZeWaF)”
15:00	<i>Coffee break</i>	
15:15	J. Martens (KU Leuven)	“Making water and hydrogen simply from air and sunlight”
16:00	T. Loerting (U Innsbruck)	“Ice XIX: the process of the discovery of an ice polymorph”
16:45	M. Schnell (DESY/CAU) G. Grübel (DESY)	Wrap-up

Thursday 03.03.2022: CMWS Meeting Day 2

ESP Session

09:00	C. Goy (DESY)	Welcome & future of ESP
09:10	C. Tonauer (U Innsbruck)	"Near-infrared spectroscopy studies on amorphous H ₂ O ices"
09:30	J. Schwarz (DESY/UHH)	"X-ray absorption spectroscopy of H ₃ O ⁺ "
09:50	D. Diaman (DESY)	"Electron and nuclear dynamics probed with ultrafast x-rays"
10:10	K. Horn (DESY/ETH Zürich)	"Electron dynamics in water-containing molecular clusters"
10:30	S. Hövelmann (CAU/DESY)	"Dynamics at water surfaces studied with x-rays"
10:50	F. Roth (TUB Freiberg)	"Monitoring photoinduced charge transfer dynamics using time-resolved x-ray photoelectron spectroscopy"

11:10 *Coffee break*

Plenary Session II & Pillar Working Groups

11:30	G. Grübel (DESY) S. Pascarelli (EuXFEL) C. Schroer (DESY)	Topical calls on water research of EuXFEL and PETRA III
12:30		Discussion
13:00	<i>Lunch break</i>	
14:00		Separate working groups of the CMWS research pillars
16:00	M. Schnell (DESY/CAU) G. Grübel (DESY)	Report from the pillars & wrap-up

Friday 04.03.2022: DESY Research Course

on Water in Energy Research and Technology

9.00	E. Weckert (DESY)	“Welcome and introduction”
9.10	C. Jooß (GAU Göttingen)	“In-situ TEM studies of the oxide water interface during oxygen evolution”
9:50	M.T.M. Koper (Leiden University)	“Double layer structure of the Pt(111)-aqueous electrolyte interface”
10:30	<i>Coffee break</i>	
10:45	M. Escudero Escribano (University of Copenhagen)	“Tailored electrochemical interfaces for renewable energy conversion”
11:25	O. Magnussen (CAU, Kiel)	“Clarifying the interaction of water with platinum electrodes by operando high-energy surface X-ray diffraction”
12:05	<i>Lunch break</i>	
12:50	M. Todorova (MPI für Eisenforschung, Düsseldorf)	“Insights into processes at electrified solid/liquid interfaces from ab initio molecular dynamics simulations”
13:30	J. Behler (GAU Göttingen)	“Simulation of solid-liquid Interfaces with machine learning potentials”
14:10	<i>Coffee break</i>	
14:40	E. Breynaert (KU Leuven)	“NMR as a node of convergence in molecular water research”
15:20	M. Bauer (Universität Paderborn)	“Photocatalytic water splitting through the (ultrafast) X-ray eye”
16:00	S. Techert, A. Stierle (DESY)	Wrap up
