



## Studying Molecular Water — Programme

21 January 2022

*Virtual Meeting (Zoom)*

Water is fundamental to life on Earth, which has long made it an intense area of research across many disciplines, and yet many of its physical properties are still not well understood. With the ultrashort, intense, and spatially coherent X-ray pulses available at X-ray free electron lasers there is the potential for rapid advances in our understanding of molecular water. In order to support and encourage this important area of research the European XFEL will issue a special Call for Proposals focussed on molecular water research and this satellite meeting will introduce and define the initial Expression of Interest phase of this call.

Organiser: Chris Milne

Contact: [christopher.milne@xfel.eu](mailto:christopher.milne@xfel.eu)

Friday 21 January 2022			
9:00	Welcome	Robert Feidenhans'l and Edgar Weckert	European XFEL DESY
9:15	Computational studies of the liquid-liquid transition in supercooled water (45 years in 45 minutes)	Francesco Sciortino	La Sapienza Universita' di Roma
10:00	Introduction to the European XFEL and the Call for Proposals on molecular water research	Sakura Pascarelli	European XFEL
10:30	Break		
10:45	Water research and future perspectives at MID	TBD	European XFEL
11:15	Water research and future perspectives at FXE	Peter Zalden	European XFEL
11:45	Origin of the anomalous properties of water revealed through x-ray lasers	Anders Nilsson	Stockholm University
12:30	Lunch		
13:30	Water research and future perspectives at SPB/SFX	Chan Kim	European XFEL
14:00	Water research and future perspectives at HED	Ulf Zastra	European XFEL
14:30	Break		
14:45	The Center for Molecular Water Science (CMWS)	Gerhard Gruebel	DESY
15:15	Water research and future perspectives at SCS	Zhong Yin	European XFEL
15:45	Water research and future perspectives at SQS	Michael Meyer	European XFEL
16:15	Wrap-up	Serguei Molodtsov Sakura Pascarelli	European XFEL
16:30	End		