

INVITATION FOR INSTITUTE COLLOQUIUM

A molecular view of water and interfaces

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Mainz, Germany

When: Wednesday, 17th of April 2024 at 5:00 p.m.

Where: Newtonstr. 14, 12489 Berlin

Walter-Nernst-Haus, Lecture Hall 0'06

Abstract. Water interfaces differ from the bulk, in both their physical structure and chemical composition. In particular, the role of the termination of the hydrogen-bonded network, the role of charges at interfaces, and the effect of charges on the arrangement of counterions and water have been much debated. These charges also affect the chemical dynamics occurring at water interfaces. For instance, charge is relevant for “on-water chemistry” – chemistry at the open water surface, relevant for both technologies and chemical processes in the atmosphere. My presentation will show how we can characterize the outermost monolayer of water at an interface, using advanced, femtosecond laser-based techniques. These techniques allow us to quantify the interfacial ion distribution and follow chemical conversion at water surfaces and interfaces in great detail using surface-specific vibrational spectroscopies.

<https://www.mpip-mainz.mpg.de/de/bonn>

Before the lecture, a tea/coffee round will be held from 16:30 in room 0'138 (Brook-Taylor-Straße 2, 12489 Berlin), offering the opportunity for a personal discussion with the speaker.

+++ We are looking forward to meeting you at the seminar! +++