

Dienstag, 10.05.2011

Hörsaal D, Chemie Zentralbau, 17:15 Uhr

Sprecher: Gernot Friedrichs
Universität Kiel

**Thema: Physico-chemical aspects of the
surface ocean studied by linear and
non-linear optical techniques**

Abstract: Recent years have seen an upturn in the application of optical detection methods in marine sciences. For example, non-linear surface sensitive vibrational sum-frequency spectroscopy (VSFG) is used to gain a more quantitative understanding of the molecular composition, structure and reactivity of the marine nanolayer – a complex layer of organics regularly found at the water-air interface of natural water samples. Furthermore, linear emission and absorption based optical methods such as fluorescence and cavity-ringdown spectroscopy serve as tools for field-monitoring of biofilm formation and isotope selective detection of surface-water dissolved CO₂.

Organisation: I. Fischer

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Weitere Informationen unter
<http://www.phys-chemie.uni-wuerzburg.de>