

**Title**      **Unraveling Hierarchical Structures, Functions, and Dynamics of Buried, Complex Interfaces**

**Speaker** Prof. Motomu Tanaka

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Heidelberg University, Germany  
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**Date & Time**    Friday, March 10, 2017    4:00 p.m.

**Place**            I<sup>2</sup>CNER Hall, Ito campus, Kyushu University

**Abstract**

In biological systems, many key reactions are confined within quasi-2D spaces (e.g. biological membranes), which can be understood "economically" within the framework of classical Smoluchowski equation. Despite of a huge number of molecular components and interplays of various interfacial interactions involved, modern physical techniques utilizing quantum beam (such as synchrotron and neutron) are applicable for complex interfaces under water. In my talk, I will select some topics from our on-going research and introduce you how we can shed a quantitative light on hierarchical structures, functions, and dynamics of "buried" interfaces.

**About the Speaker**

1998 - 2001	Postdoc: JSPS and Humboldt Fellow
2001 - 2005	Independent Group Leader: Physics Department, Technical University Munich
2000 - 2002	Visiting Scholar: Chemistry and Chemical Engineering, Stanford University
2005	Habilitation in Experimental Physics: Technical University Munich
2005 -	Professor of Chemistry: Heidelberg University
2007 -	Professor of Physics: Heidelberg University
2010 - 2014	Group Leader: Karlsruhe Institute of Technology (BioInterface Program)
2013 -	Professor: WPI-iCeMS, Kyoto University

**Host: Professor Atsushi Takahara**

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