



International Max Planck Research School

Complex Surfaces in Materials Science

Special block course on

Dynamic processes at interfaces and surfaces

When? 27 Sept to 2 Oct 2013
Where? Technische Universität Berlin, Hardenbergstr. 36, 10623 Berlin
(close to U2 station Ernst-Reuter-Platz)
Eugene Wigner Building, Room EW 561 (5th floor)

Dynamic processes play a key role in modern interface and surface science, including fields such as heterogeneous catalysis, organic optoelectronics, and femtosecond surface chemistry. The lecturers of this course will discuss the fundamentals and current understanding of important interface dynamic processes from an experimental and theoretical point of view.

Everyone is welcome to attend - no registration required!

	Fri, 27 Sep	Mon, 30 Sep	Tue, 1 Oct	Wed, 2 Oct
9:00-10:30h	A. Fielicke (TU): <i>Chemical reactions and ultrafast processes at metal clusters</i>	R. Schlögl (FHI): <i>Dynamic processes in heterogeneous catalysis</i>	T. Kampfrath (FHI): <i>Light-matter interaction and femtosecond optical spectroscopy</i>	A. Schnegg (HZB): <i>Electron spin resonance spectroscopy: fundamentals, chemical sensitivity, and application to interfaces</i>
11:00-12:30h	P. Saalfrank (UP): <i>Quantum-mechanical description of surface dynamics</i>	A. Tkatchenko (FHI): <i>Fundamentals and current understanding of van der Waals interactions</i>	E. Malic (TU): <i>Quantum theory of ultrafast light-induced processes: insights into graphene</i>	N. Koch (HU): <i>Interfaces with organic semiconductors in optoelectronic devices</i>
14:00-15:30h	M. Weinelt (FU): <i>Time-resolved photoelectron spectroscopy</i>	L. Ghiringhelli (FHI): <i>First principle molecular dynamics and infrared spectroscopy</i>	R. K. Campen (FHI): <i>How to probe interfaces with optical sum-frequency spectroscopy</i>	K. Franke (FU): <i>Seeing surface dynamics with a scanning tunneling microscope: pump-probe and noise spectroscopy</i>
16:00-17:30h		H.-J. Freund (FHI): <i>Dynamics of thin-film growth</i>	M. Wolf (FHI): <i>Probing transient electronic structure in ultrafast surface chemistry</i>	



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