Sunday, 26th October, 2014

17:00 - 20:00 Registration

From 18:30 BUFFET DINNER / Informal get together

Monday, 27th October, 2014

07:30	BREAKFAST	
08:30 - 08:45	Martina Havenith Dominik Marx Wolfram Sander	Welcome and opening
08:45 - 09:00	Ernst Dreisigacker	About the Wilhelm and Else Heraeus Foundation
09:00 – 10:00	Christopher Hunter	Molecular recognition probes of solvation phenomena
10:00 – 10:45	R. Benny Gerber	Solvation and chemical reactions of molecules on ices and in organic aerosols
10:45 – 11:15	COFFEE BREAK	
11:15– 12:00	Ralf Ludwig	Ion pairing in protic ionic liquids: The effects of solvent polarity, solvent concentration and temperature
12:00 – 12:45	Othmar Steinhauser	Computational solvation dynamics: Electric and magnetic probes
12:45 – 12:50	Conference Photo (in	n front of the Physikzentrum)
12:50	LUNCH	

Monday, 27th October, 2014

14:30 – 15:15	Yunjie Xu	Solvation of Chiral Molecules: VCD Signatures and Gas Phase Solvated Clusters
15:15 – 15:30	Mychel Varner	Role of solvation in the photoinitiated oxidation of ammonia
15:30 – 15:45	Greg Dunning	The onset of hydrogen bonding and subsequent solvent reorganisation following F-atom reactions in solution
15:45 – 16:00	Janne Savolainen	Two-dimensional Raman-terahertz spectroscopy of water
16:00 – 16:30	COFFEE BREAK	
16:30 – 16:45	Ruth Livingstone	Interfacial water dynamics – modified by the presence of a surfactant
16:45 – 17:00	Johannes Hunger	Heterogeneous dynamics in protic ionic liquids
17:00 – 17:15	Daniel Muñoz	Methanol oxidation at the TiO ₂ /H ₂ O interface in gas and liquid phases
17:15 – 17:30	Ana Vila Verde	Solvent-shared pairs of densely charged anions and cations supra-additively slowdown water rotation
17:30 – 17:45	Alexander Schlaich	Hydration interaction of polar surfaces
17:45 – 18:00	Jozef Lengyel	Photodissociation dynamics of hydrogen halides on ice nanoparticles
18:00	DINNER	
19:30	Postersession	

Tuesday, 28th October, 2014

19:30

HERAEUS DINNER

(cold & warm buffet, free beverages)

07:30	BREAKFAST	
08:30 - 09:30	Eckhard Spohr	Modelling interfacial electrochemistry with atomistic simulations. State of the art and challenges
09:30 – 10:15	Maxim Fedorov	Interfacial structural transitions in ionic liquids at charged surfaces: Recent insights from computer simulations
10:15 – 10:45	COFFEE BREAK	
10:45 – 11:30	Jan-Dierk Grunwaldt	In situ studies during heterogeneously catalysed oxidation reactions: From gas to liquid phase and supercritical fluids
11:30 – 12:15	Osamu Sugino	Electrochemical solid-liquid interface from first-principles
12:15	LUNCH	
14:00	Excursion	
	Walking Tour and W	ine Tasting

Wednesday, 29th October, 2014

07:30	BREAKFAST	
09:00 – 10:00	A. Joshua Wand	Characterization of protein hydration by NMR
10:00 – 10:45	Huib Bakker	Structure of water at oil and protein surfaces studied with surface sum-frequency generation
10:45 – 11:15	COFFEE BREAK	
11:15 – 12:00	Dor Ben-Amotz	The emergence of structure from randomness in aqueous aggregation processes
12:00 – 12:45	Jochen Blumberger	Redox properties of solvated ions and proteins from density functional theory based and QM/MM molecular dynamics simulation
12:45	LUNCH	
14:30 – 15:15	Nikolaus Ernsting	Observing the hydration layer of trehalose with a linked molekular THz probe
15:15 – 16:00	Ruth Gschwind	Solvent effects in synthesis and catalysis insights by NMR
16:00 – 16:30	COFFEE BREAK	

Wednesday, 29th October, 2014

16:30 – 16:45	Hannah Gelman	Protein stability <i>in vivo</i> and the intracellular environment
16:45 – 17:00	Liel Sapir	Theory of enthalpic depletion forces in complex solutions
17:00 – 17:15	Matthias Heyden	Resolving anisotropic distributions of correlated vibrational motion in protein hydration water
17:15 – 17:30	Moran Grossmann	Enzymatic turnover of macromolecules generates long lasting protein-water coupled motions beyond reaction steady-state
17:30 – 17:45	Georgios Gerogiokas	Biomolecular hydration thermodynamics via grid cell theory aids prediction of ligand-protein binding affinities
17:45 – 18:00	Michael Senske	Protein stabilization by macromolecular crowding through enthalpy rather than entropy
18:00 – 18:15	Emiliano Brini	Computing solvent-induced forces in the solvation approach called Semi Explicit Assembly
18:15	DINNER	
19:45	Postersession	

Thursday, 30th October, 2014

07:30	BREAKFAST	
09:00 - 09:45	Thomas Kiefhaber	Fast conformational fluctuations in proteins and peptides measured by triplet-triplet energy transfer (TTET)
09:45 – 10:30	Benjamin Schuler	Probing the structure and dynamics of unfolded and intrinsically disordered proteins with single-molecule spectroscopy
10:30 – 11:00	COFFEE BREAK	
11:00 – 11:45	Peter Vöhringer	Ultrafast solvated electron dynamics in liquids and supercritical fluids

11:45 **Poster Prize, Closing and Lunch**

End of the seminar and departure