

Science Day



Thursday, October 13th, 2016

9:20	Welcome K. Kern and T. Rizzo
9:30-10:00	Molecular optomechanics: Amplification of vibrations in SERS Ph. Rölli (EPFL) and H.-H. Jeong (MPS)
10:00-10:30	Bottom-up molecular assembly of cellular focal adhesion-associated proteins at nanopattern membrane interfaces J. Spatz (MPS) and H. Deschout (EPFL)
10:30-10:00	COFFEE BREAK
11:00-11:30	Peptides at surfaces: Simulating organic-inorganic interface systems C. Baldauf (MPS) and M. Ceriotti (EPFL)
11:30-11:50	Study of molecular dissociation of diatomics on Au(111) and Ag(111) J. Geweke and J. Altschäffel (MPS-BPC)
12:00	LUNCH
14:00-14:30	First-principles high-throughput design and discovery of novel materials, and its application to thermoelectrics C. Carbogno (MPS) and A. Marcolongo (EPFL)
14:30-15:00	Synthetic nanomotors P. Fischer (MPS) and N. Nianias (EPFL)
15:00-15:30	Nanocapillary and nanopore interfaces to 2D materials K. Balasubramanian (MPS)
15:30-16:00	COFFEE BREAK
16:00-16:30	Biomolecules on their way to solvation C. Masellis (EPFL) and M. Schneider (MPS)
16:30-17:00	Photoelectrochemical water splitting by GaAs nanowire arrays on Si A. Fontcuberta (EPFL) and F.M. Podjaski (MPS)
17:00-17:30	Novel solid electrodes and electrolytes for Li-ion and Li-metal batteries M. Cococcioni (EPFL) and S. Harm (MPS)
17:30-17:50	Adding a puzzle piece to the picture of biomolecular conformation: local study of peptides at solid/liquid interfaces B. Stel (MPS-EPFL Nanolab)
19:00	Annual discussion meeting of the Center at the "Ilysia" in Stuttgart-Vaihingen

Werner-Köster Lecture Hall 2R4

Friday, October 14th, 2016

9:00-9:30	State-to-state dynamical studies of surface chemistry and energy transfer R. Beck (EPFL) and A. Wodtke (MPS)
9:30-10:00	Charge carrier chemistry and interface effects in organic perovskites for solar cells with enhanced efficiency A. Senocrate (MPS) and N. Pellet (EPFL)
10:00-10:30	COFFEE BREAK
10:30-11:00	In-situ and atomic-scale investigations of degradation mechanisms in solid oxide fuel cell devices C. Hébert (EPFL) and Z.J. Wang (MPS)
11:00-12:00	Meeting of the Scientific Board (SB)
12:00	LUNCH
13:00	Report from the SB meeting and concluding remarks K. Kern and T. Rizzo

PROGRAM