

## Max Planck - EPFL Center for Molecular Nanoscience & Technology Science Day – EPFL 8th-9th October 2015

Starling Hotel Lausanne <http://shlausanne.com>

Thursday, October 8 <sup>th</sup> , 2013	
09:10	Welcome, <u>K. Kern</u> and <u>T. Rizzo</u>
09:20-09:50	Molecular optomechanics : Amplification of vibrations in SERS, <u>Ph. Rölli</u> (EPFL) and <u>H.-H. Jeong</u> (MPS)
09:50-10:20	Synthetic nanomotors, <u>P. Fischer</u> (MPS) and <u>S. Th. Jones</u> (EPFL)
	<b>COFFEE BREAK</b>
10:50-11:20	Charge carrier chemistry and interface effects in organic perovskites for solar cells with enhanced efficiency, <u>G. Gregori</u> (MPS) and <u>N. Pellet</u> (EPFL)
11:20-11:40	Exploring surface supported molecular networks for hydrogen evolution, <u>R.Vanta</u> (MPS-EPFL NanoLab and LMSC)
<b>12:00</b>	<b>LUNCH</b>
14:00-14:30	Photoelectrochemical water splitting by GaAs nanowire arrays on Si and CO <sub>2</sub> reduction, <u>E. Frau</u> (EPFL) and <u>F.M. Podjaski</u> (MPS)
14:30-15:00	First-principles high-throughput design and discovery of novel materials, and its application to thermoelectrics, <u>C. Carbogno</u> (MPS) and <u>A. Cepellotti</u> (EPFL)
15:00-15:30	State-to-state dynamical studies of surface chemistry and energy transfer, <u>R. Beck</u> (EPFL) and <u>P. Shirhatti</u> (MPS)
	<b>COFFEE BREAK</b>
16:00-16:30	Biomolecules on their way to solvation, <u>C. Masellis</u> (EPFL) and <u>M. Schneider</u> (MPS)
16:30-17:00	Novel solid electrodes and electrolytes for Li-ion and Li-metal batteries, <u>M. Cococcioni</u> (EPFL) and <u>G. Gregori</u> (MPS)
17:15-18:15	Scientific Board meeting
<b>19:30</b>	<b>DINNER</b> at "La Table de Vallotton" at the Rolex Learning Center
Friday, October 9 <sup>th</sup> , 2013	
09:00-09:30	Peptides at surfaces : Simulating organic-inorganic interface systems, <u>C. Baldauf</u> (MPS) and <u>M. Ceriotti</u> (EPFL)
09:30-10:00	In-situ and atomic-scale investigations of degradation mechanisms in solid oxide fuel cell devices, <u>C. Hébert</u> (EPFL) and <u>A. Rinaldi</u> (MPS)
	<b>COFFEE BREAK</b>
10:30-11:00	Bottom-up molecular assembly of cellular focal adhesion-associated proteins at nanopattern membrane interfaces, <u>I. Platzmann</u> (MPS) and <u>H.G. Deschout</u> (EPFL)
11:00-11:30	Chemical and biological patterning of 2D materials, <u>K. Balasubramanian</u> (MPS) and <u>M. Graf</u> (EPFL)
11:30-12:00	Final discussion
<b>12:00</b>	<b>LUNCH</b>