## Science Day

### Welcome
K. Kern and T. Rizzo

### Molecular optomechanics: Amplification of vibrations in SERS
Ph. Rölli (EPFL) and H.-H. Jeong (MPS)

### Bottom-up molecular assembly of cellular focal adhesion-associated proteins at nanopattern membrane interfaces
J. Spatz (MPS) and H. Deschout (EPFL)

### COFFEE BREAK

### Peptides at surfaces: Simulating organic-inorganic interface systems
C. Baldauf (MPS) and M. Ceriotti (EPFL)

### Study of molecular dissociation of diatomics on Au(111) and Ag(111)
J. Geweke and J. Altschäffel (MPS-BPC)

### LUNCH

### First-principles high-throughput design and discovery of novel materials, and its application to thermoelectrics
C. Carbogno (MPS) and A. Marcolongo (EPFL)

### Synthetic nanomotors
P. Fischer (MPS) and N. Nianias (EPFL)

### Nanocapillary and nanopore interfaces to 2D materials
K. Balasubramanian (MPS)

### COFFEE BREAK

### Biomolecules on their way to solvation
C. Masellis (EPFL) and M. Schneider (MPS)

### Photoelectrochemical water splitting by GaAs nanowire arrays on Si
A. Fontcuberta (EPFL) and F.M. Podjaski (MPS)

### Novel solid electrodes and electrolytes for Li-ion and Li-metal batteries
M. Cococcioni (EPFL) and S. Harm (MPS)

### Adding a puzzle piece to the picture of biomolecular conformation: local study of peptides at solid/liquid interfaces
B. Stel (MPS-EPFL Nanolab)

### Annual discussion meeting of the Center at the "Illysia" in Stuttgart-Vaihingen

### State-to-state dynamical studies of surface chemistry and energy transfer
R. Beck (EPFL) and A. Wodtke (MPS)

### Charge carrier chemistry and interface effects in organic perovskites for solar cells with enhanced efficiency
A. Senocrate (MPS) and N. Pellet (EPFL)

### COFFEE BREAK

### In-situ and atomic-scale investigations of degradation mechanisms in solid oxide fuel cell devices
C. Hébert (EPFL) and Z.J. Wang (MPS)

### Meeting of the Scientific Board (SB)

### LUNCH

### Report from the SB meeting and concluding remarks
K. Kern and T. Rizzo