AAFMT conference - program

Monday, March 6, 2023

10:30	OPENING COFFEE & REGISTRATION Chair: Regina Hoffmann & Thomas Schimmel
10:50	WELCOME Thomas Schimmel, Karlsruhe & Regina Hoffmann, Potsdam
11:00	Machine Learning in Scanning Probe Microscopy Adam S. Foster, Aalto University
11:40	Chemical bond imaging using torsional and flexural higher eigenmodes of qPlus sensors Daniel Ebeling, Justus Liebig University, Giessen
12:00	Charging single metal nanoparticles on thin alumina films by the AFM tip <i>Clemens Barth, CNRS, Marseille</i>
12:20	LUNCH Chair: Svetlana Santer
13:30	Structure-function relationships of mechanoresponsive proteins Kerstin G. Blank, Johannes Kepler University, Linz
14:10	Mechanical properties of multi photon lithography printed polymer structures by AFM spectroscopy Dorothee Silbernagel, BAM, Berlin
14:30	Unfolding fingerprint of interfacial velvet work slime proteins at different pH and buffer conditions using AFM force clamping spectroscopy <i>Yendry Corrales Urena, University of Bremen</i>
14:50	Probing transparency of graphene using dynamic AFM Sanket Jugade, Centre for Nanoscience and Engineering, Bengaluru
15:10	POSTER SESSION with COFFEE, SNACKS & REFRESHMENTS Chair: Daniel Ebeling
17:00	Analysis and interpretation of force volume data acquired with a tuning fork AFM at cryogenic temperatures by using intermodulation products <i>Marco Zutter, University of Basel</i>

- 17:20 The trouble of reliable piezoresponse force microscoy on electronic and ionic conductors *Ilka M. Hermes, Leibniz Institute of Polymer Research, Dresden*
- 17:40 Optimizing information transfer in AFM measurement *Pieter J. A. van Schendel, Nanosurf, Liestal*
- 18:00 POTSDAM GUIDED TOUR
- 20:00 CONFERENCE DINNER at El Puerto, Potsdam

Tuesday, March 7, 2023

9:30	Chair: Katharina Franke KPFM on low conducting 2D materials Elisa Palacios-Lidon, University of Murcia
10:10	Force experiments on 2d-materials Ernst Meyer, University of Basel
10:30	Dissipation arising from molecular fluctuations Hans Josef Hug, EMPA, Dübendorf
10:50	COFFEE BREAK
11:20	<i>Chair: Remy Pawlak</i> Physisorbed and chemisorbed organic molecules on monolayers of MoS ₂ on Au(111) <i>Katharina Franke, FU Berlin</i>
12:00	Magnetic phase transition in monolayer MoS2 detected with AFM Marcin Kisiel, University of Basel
12:30	LUNCH
13:20	<i>Chair: Elisa Palacios-Lidon</i> Tracking single polarons by STM/AFM <i>Martin Setvin, Charles University, Prague</i>
14:00	On-surface synthesis of nanographene with Kagome structure characterized by low-temperature atomic force microscopy <i>Remy Pawlak, University of Basel</i>
14:20	Symmetry analysis and microscopic geometry of the (2×1) reconstructed calcite(104) surface <i>Philipp Rahe, University of Osnabrück</i>

- 14:40 The wavy world of Fourier surfaces Nolan Lassaline, TU Denmark
- 15:20 Signal characterisation and precision calibration for an interferometer for NC-AFM applications *Knarik Khachatryan, University of Osnabrück*
- 15:40 BEST POSTER AWARD, BEST IMAGE PRIZE & CLOSING REMARKS
- 16:00 End of conference