



Molecular assemblies on semiconductors and insulating surfaces

joint program project of Jagiellonian University and University of Basel

June 11, 2013 Venue Institute of Physics, Jagiellonian University 15:00 - 15:05JUMarek Welcome Szymonski 15.05 - 15.25Bartosz Such JUIntroduction from Polish side Thilo Glatzel 15:25 - 15:55UBIntroduction from Swiss side 15:55 - 16:30 JU&UB Discussion on recent experimental results 16:30 - 17:00 Coffee break 17:00 - 18:00JU&UB Discussion on joint publications under preparation Venue Auditorium Maximum, Jagiellonian University 18:15 - 20:00Welcome and social meeting with participants JU&UB of the 4th European Workshop on Nanomanipulation June 12, 2013 Joint proceedings Auditorium Maximum, Venue with $\hat{4}^{th}$ European Jagiellonian University Workshop on Nanomanipulation Poster Session Antoine Hinaut UB*Large organic molecules deposition under* UHV conditions with an ElectroSpray device Poster Session Thilo Glatzel UB Scanning Probe Microscopy and Spectroscopy of nanodiamonds under illumination Poster Session Amir Zebari JU Molecular layer engineering Venue JU Rector's Conference and Reception Centre in Modlnica 18:00 - 19:00JU&UB Marek Annual review meeting summary and Szymonski & discussion on the future activities Ernst Meyer 19.15 - 21:00 Annual Review Reception & Dinner June 13, 2013 10.10 - 10.30JU*On-surface polymerization on rutile titania* Jakub S. Prauznersurfaces Bechcicki June 14, 2013 9.00 - 9.40JUManipulation of single atoms and molecules on Szymon Godlewski semiconductors - toward integration of prototypical switches 12.20 - 12.40Manipulation and imaging of single molecules Thilo Glatzel UΒ by Atomic Force Microscopy

Program of the annual review meeting, Kraków, June 11-14, 2013









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The main aim of the project is to investigate processes taking place around the molecular assemblies formed on insulating and semiconducting substrate under irradiation by photons. The molecular assemblies grown either by evaporation or by electro-spray deposition will be examined by scanning probe methods, especially non contact atomic force microscopy (NC-AFM) and Kelvin probe force microscopy (KPFM) in order to determine dependence of the electrical properties of the assemblies. Within the project a number of molecule/substrate systems will be tested in order to find the most suitable ones for examination of the evolution of excitation in the assemblies induced by the incoming light. As the result we hope to gain deeper understanding of charge evolution and transport in the assembly which is crucial in many fields of the nanotechnology and research related to development of light-harvesting media.

Key personnel involved

Jagiellonian University, Kraków

Marek Szymonski Bartosz Such Jakub Lis Amir Zebari University of Basel

Ernst Meyer Thilo Glatzel Antoine Hinaut









List of Participants

Grzegorz Brzezinka	Jagiellonian University
	University of Basel
Paweł Czuba	Jagiellonian University
Thilo Glatzel	University of Basel
Szymon Godlewski	Jagiellonian University
	Jagiellonian University
Marek Kolmer	Jagiellonian University
Franciszek Krok	Jagiellonian University
Ernst Meyer	University of Basel
Antoine Hinaut	University of Basel
Piotr Piatkowski	Jagiellonian University
Jakub Prauzner-Bechcicki	Jagiellonian University
Bartosz Such	Jagiellonian University
Dorota Swierz	Jagiellonian University
Agnieszka Szczygiel	Jagiellonian University
Marek Szymonski	Jagiellonian University
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