

Preliminary Programme of the High-Field Nanoscience Workshop

Thursday, 27 May 2010:

9⁰⁰ Workshop opening.

A word of introduction by The Dean of Faculty of Physics and Astronomy Professor Robert Olkiewicz

9¹⁰ -11¹⁰ Session 1 (Chair: G. Schmitz)

9¹⁰ **Norbert Kruse** *Field Emission and Atom-Probe Studies in Catalysis Research*

10⁰⁰ Invited tandem lecture by Yuri Suchorski and Günther Rupprechter: *Effects of high field versus high pressure on catalytic surfaces*

10⁰⁰ **Yuri Suchorski** *High field effects on adsorption, surface oxidation and reaction*

10³⁰ **Günther Rupprechter** *High gas pressure effects on adsorption, surface oxidation and reaction*

11¹⁰ -11³⁰ Coffe Break

11³⁰ - 12⁵⁰ Session 2 (Chair: Y. Suchorski)

11³⁰ **Peter Hommelhoff** *Understanding laser-driven electron emission from field emitters: energy-resolved measurements*

12²⁰ **Andrzej Szczepkowicz** *Surface science on field emission tips in Wrocław - past and present*

13⁰⁰ -14³⁰ Lunch

14³⁰ -16¹⁰ Session 3 (Chair: G. Antczak)

14³⁰ **Janusz Bęben** *The analysis of fluctuations in nanoscale diffusion*

15²⁰ **Aleksander Krupski** *Growth of Pb on Mo(110) studied by scanning tunnelling microscopy. Comparison with the growth of Au, Ag and Sn on Mo(110)*

16¹⁰ -16³⁰ Coffe Break

16³⁰ -18¹⁰ Session 4 (Chair: N. Kruse)

16³⁰ **Guido Schmitz** *Research on ,top of the tip': Interfaces in nanostructured matter*

17²⁰ **Adam Kiejna** *Au nanostructures on defected rutile TiO₂(110)*

17⁴⁵ **Robert Kucharczyk** *Adsorption of thin films of titanium on tungsten (111) surface*

18¹⁰ **Poster Session** (including competition for the best Students' Presentation)

19⁰⁰ Workshop Dinner

Friday, 28 May 2010:

9⁰⁰-10⁴⁰ Session 5 (Chair G. Rupprechter)

9⁰⁰ Markus Heyde *NC-AFM in the Surface Science Approach to Model Catalysis*

9⁵⁰ Marek Nowicki *Properties of MgO thin films on Ag(001) revealed by low temperature scanning tunneling microscopy and spectroscopy*

10¹⁵ Jacek Brona *Ultrathin Cu layers on clean and oxidized Ru(10-10) surface*

10⁴⁰-11⁰⁰ Coffe Break

11⁰⁰ -13⁰⁵ Session 6 (Chair P. Hommelhoff)

11⁰⁰ Richard Forbes *Progress in reconstructing the basic theory of field electron emission*

11⁵⁰ Andreas Fischer *Influence of tip curvature on field electron emission characteristics*

12¹⁵ Tomasz Grzebyk *Field-emission electron source for vacuum MEMS*

12⁴⁰ Bartłomiej Cichy *Field-emission electron source with carbon nanotubes*

13⁰⁵ -14³⁰ Lunch

14³⁰ -17¹⁵ Professor Ryszard Błaszczyszyn Special Session (chair R. Markowski)

Venue: Collegium Marianum Music Hall

14³⁰ Preface by Antoni Ciszewski

14⁴⁵ Grażyna Antczak *Surface Diffusion - An Atomistic Picture*

15⁴⁵ - 16³⁰ concerto ('La Primavera' quartett)

16³⁰ announcement of the Winner of the competition for the Best Students' presentation

16⁴⁵ official closing of The High-Field Nanoscience Workshop

by The Workshop Chairman Professor Antoni Ciszewski