

10<sup>TH</sup> International Conference on Surface X-ray and Neutron Scattering  
SXNS-10 - 2-5 July 2008  
Synchrotron SOLEIL – Gif-sur-Yvette  
Paris - France

Programme

**Tuesday, July 1<sup>st</sup>**

17h30 – 19h30     *Registration, get together party*

**Wednesday Morning, July 2<sup>nd</sup>**

8h30- 9h00     *Registration*

9h00 - 9h30     *Opening*

***Chairperson: B. Ocko***

9h30 -10h15     *Plenary talk*  
**B. Croset** - INSP – France  
*Grazing Incidence X Ray Diffraction On Periodic Nanostructured Surfaces: A Key For The Study Of Surface Elasticity*

**Film Growth, Surface Structure and Nanostructures**

10h15 -10h50     *Invited*  
**G.Thornton** - University Coll. London –UK  
*Metal Oxide Surface Structures as a Function of Adsorbate and Oxygen Partial Pressure*

10h50 - 11h15     *Coffee Break*

11h15 -11h40     *C. H. Hsu et al.*  
*Structural and Compositional Investigation of MBE Grown HfO<sub>2</sub> and Yttrium-doped HfO<sub>2</sub> Epitaxial Films*

11h40 -12h05     *A.Barbier et al.*  
*Microdiffraction Study of the Effect of Optical Lithography Patterning on the Crystalline Structure of Tunnel Junctions*

12h05 -12h30     *H. Meyerheim et al*  
*X-ray Evidence For Mesoscopic Relaxations In Cobalt Nanoislands On Cu(001)*

12h30 - 12h55     *J. Penuelas et al.*  
*In Real-Time Coupled X-ray Scattering To Investigate Coalescence Effect In Supported Nanoparticles*

12h55 - 14h10     *Lunch*

## Wednesday Afternoon, July 2<sup>nd</sup>

### *Chairperson: P. Willmott*

- 14h10 - 14h45      Invited  
**A.Morgante** TASC-INFM, Italy  
*The Structure of Alkanethiols Self Assembled Monolayers on Au(111)*
- 14h45 - 15h20      Invited  
**H.Renevier** LMGP-Grenoble –France  
*Structural properties of semiconductor nanostructures studied by Multiwavelength Anomalous Diffraction and Diffraction Anomalous Fine Structure spectroscopy*
- 15h20 -15h45      M. Bedzyk  
*Atomic-Scale Analysis of Self-Assembled Monolayers on Silicon*
- 15h45 - 16h10      A. Malachias et al.  
*Evaluation of Local Strain and Elastic Energy in Single Rolled-up Semiconductor Nanotubes*
- 16h00 - 16h30      *Coffee Break*

### **New Facilities**

### *Chairperson J. White*

- 16h30 - 17h05      Invited  
**M. Nielsen**, CMM, Denmark  
*Time Resolved Studies in Thin Films in the Perspective of X-FEL Sources*
- 17h05 -17h30      D. Wermeille  
*Surface X-Ray Diffraction At The ESRF: A New Era*
- 17h30 - 18h05      Invited  
**J. Ankner**, ORNL, US  
*First Results from the SNS Liquids Reflectometer*
- 18h05 -18h30      B. Murphy  
*X-ray Diffraction Studies of Liquid Mercury – Electrolyte Interfaces: Present and Planned*
- 19h00 - 21h00      **Poster Session A**

Thursday, July 3<sup>rd</sup>

### Resonance and Magnetism and Nanostructures (part 1)

#### *Chairperson H. Dosch*

- 9h00 - 9h35 Invited  
**H. Ade**, Univ. North Carolina, US  
*Resonant Soft X-ray Scattering and Reflectivity from Carbonaceous Materials*
- 9h35 - 10h00 R. Felici et al.  
*Role of The Interface Structure In The C60 Adsorption on Metal Surfaces*
- 10h00 - 10h35 Invited  
**F. Schreiber** -Univ Tubingen –Germany  
*Real-time studies of organic molecular beam deposition*
- 10h35 - 11h00 *Coffee Break*
- 11h00 - 11h35 Invited  
**Y. Wakabayashi**, KEK-Photon Factory, Japan  
*Orbital Ordering in Manganite Surfaces and Films*
- 11h35 - 12h00 R. Springell et al.  
*Hybridized Electronic States in Actinide Multilayers*
- 12h00 - 12h25 R. Breitwieser et al.  
*Uniaxial Anisotropy And Temperature Driven Magnetization Reversal Of Fe Deposited On A MnAs/GaAs(001) Magnetic Template*
- 12h25 - 12H50 J.M. Tonnerre et al.  
*In- and Out-of-plane Magnetic Profile in PLD-Fe/Cu(001) Thin Film From Soft X-ray Resonant Magnetic Reflectivity*
- 12h50 - 14h00 *Lunch*
- ### Magnetism and Nanostructures (part 2)
- 14h00 - 14h25 P. Willmott et al.  
*Surface X-ray Diffraction of Complex Metal Oxide Interfaces and Surfaces – A New Era*
- 14h25 - 14h50 V. H. Etgens et al.  
*In plane Biaxial Strain as a Key Parameter to Stabilize Ferromagnetism Towards Higher Temperatures in MnAs Thin Films*
- 15h00 - 18h00 **Visit of SOLEIL and LLB**
- 18h30 *Departure for Conference Evening*

Friday Morning, July 4<sup>th</sup>

Soft condensed Matter and Liquids

*Chairperson H. Matsuoka*

- 9h00 - 9h35      Invited  
**M. Deutsch**, Bar-Ilan Univ., Israel  
*X-ray studies of organic layers on mercury*
- 9h35 - 10h10    Invited  
**Lay-Theng Lee**, LLB, France  
*Thermoresponsive surface layers: structure and properties*
- 10h10 - 10h35    P. Falus et al.  
*Near Surface Dynamics in Shear Flow Studied by Neutron Spin Echo and X-ray Photon Correlation Spectroscopy*
- 10h35 - 11h00    *Coffee Break*
- 11h00 - 11h35    Invited  
**A. Takahara**, Kyushu Univ. , Japan  
*Analyses of Surface and Interface Structure of Polymer Brushes*
- 11h35 - 12h00    M. Schlossman  
*Ion Distributions at Liquid-Liquid Interfaces*
- 12h00 -12h25    T Arnold et al,  
*Melting and Growth of 2D Layers of Alkanes on Magnesium Oxide*
- 12h25 - 12h50    H. Schröder et al.  
*Molecular Layering Of The Room Temperature Ionic Liquid [bmpy+][FAP-] At A Solid Hard Wall*
- 12h50 - 14h15    *Lunch*

Friday Afternoon, July 4<sup>th</sup>

### New Instrumentation and Methods

*Chairperson: S. Satija*

- 14h15 - 14h50      Invited  
**J. Plomp**, Tech. Univ. Delft, Holland  
*ISIS Second Target Station Neutron Reflectometer Using Spin-Echo*
- 14h50 - 15h25      Invited  
**M. Saint-Lager**, Institut Néel-Grenoble-France  
*In Operando Studies On Model Gold-based catalysts By Grazing Incidence X-Ray Scattering*
- 15h25 - 15h50      T. Matsushita  
*Simultaneous Multiwavelength Dispersive X-ray Reflectometer For Time-Resolved Reflectometry*
- 15h50 - 16h15      A. Beerlink  
*X-ray Structure Analysis of Free-Standing Lipid Membranes Facilitated by Micromachined Apertures*
- 16h15 - 16h45      *Coffee Break*

### Coherence

*Chairperson I. Vartanians*

- 16h45 - 17h20      Invited  
**I.K.Robinson**, University Coll., London, UK  
*Quantitative Strain Analysis of Nanocrystals using Coherence*
- 17h20 - 17h45      J. Luning  
*Lensless Microscopy by Scattering of Coherent X-Rays*
- 17h45 - 18h10      H. Kim et al,  
*Deformation Field Mapping of Zeolite Microcrystals by Coherent X-ray Diffraction*
- 18h10 - 18h35      Y. Chushkin et al,  
*Low-frequency elastic behavior of a supercooled glass-forming liquid*
- 19h00 - 21h00      Poster Session B**

**Saturday July 5<sup>th</sup>**

**Chairperson A. Schreyer**

9h00 - 9h45 Plenary speaker  
**S. Sinha**, Univ. California San-Diego, US  
*Resonant X-Ray and Magnetic Scattering Studies of Magnetic Films*

**Magnetism**

9h45 - 10h20 Invited  
**N. Jaouen**, SOLEIL, France  
*Magnetism in low dimensional system probed by X-ray resonant magnetic reflectivity*

10h20 - 10h45 C.Gutt et al  
*Resonant Magnetic Scattering with Femtosecond Soft X-ray Pulses from a Free Electron Laser at 1.59 nm*

10h45 - 11h10 *Coffee Break*

11h10 - 11h45 Invited  
**S. Lee**, Univ. Liverpool, UK  
*X-Ray and neutron scattering studies of Fe/Mn and Fe/MgO single-crystal multilayers*

11h45 - 12h10 D. Solina et al,  
*Behaviour Of The Antiferromagnet in Exchange Biased CoFe/PtMn(001) Bilayer Studied Using Polarized Neutron Diffraction*

**Soft Interfaces**  
**Chairperson J. Lal**

12h10- 12h35 Y. Lifshitz et al,  
*Phase Transition Mechanism in Polydiacetylene Langmuir Films Modified by Zinc Cations*

12h35 -13h00 R. Jribi  
*Water Adsorption on TiO<sub>2</sub>: Neutron Reflectivity Investigation*

13h00 -14h15 *Lunch*

**Membranes and Bio-related interfaces**  
**Chairperson G. Fragneto**

14h15 - 14h50 Invited  
**E. Mihailescu**, Univ. California Irvine and NIST, US  
*Revealing the Molecular Basis for Membrane Organization and Membrane Protein Function by Neutron Diffraction*

14h50-15h15 H.W. Huang et al.  
*Rhombohedral Phase of Phospholipids*

15h15-15h40 K. Shin et al.  
*Insertion Mechanism of Cell-penetrating Peptides into the Model Phospholipid Bilayers*

15h40-16h05 M.Sferrazza et al.  
*Adsorption of globular deuterated proteins onto PEG brushes: primary or ternary adsorption?*

16h05-16h30 *Closing Remarks, Coffee*