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Solid Surfaces Group

SPECS™

XMaS the UK-CRG

EPSRC Engineering and Physical Sciences Research Council

IOP Institute of Physics

Thin Films and Surfaces Group

Surface Science with Synchrotron Radiation

(In memory of Paul Wincott)

Wednesday 22 January 2014

Burlington House, Royal Society of Chemistry

Registration opens at 11.45am; the meeting will close at 6.30pm.

Programme

11:45 **Registration Opens**

12:30 Introduction

12:35 Memories of Paul Wincott **(Geoff Thornton)**

12:40 **Jorg Zegenhagen**
The world of surface studies with synchrotron radiation in 25 minutes

13:10 **Bobbie-Jean Shaw**
Briding the pressure gap: water adsorption on a model photocatalyst

13:30 **Hanna Radkte**
Chlorine-passivated colloidal dots – using depth-profiling synchrotron radiation x-ray photoelectron spectroscopy to study shell structure

13:50 **Lunch**

14:30 **Chris Lucas**
Studies of the electrochemical interface

15:15 **Liam Deacon**
Iron oxide ultra-thin films and magnetic nanowires fabricated and imaged by in situ growth and oxidation on Au(111) and Re(0001) surfaces

15:35 **Jon Treacy**
Surface structure of anatase-TiO_2(101)

15:55 **Refreshments**

16:15 **Georg Held**
Photoelectron spectroscopy under ambient pressure conditions

17:00 **Sophie Rennie**
A surface corrosion study of single crystal UO2 thin films

17:20 **Anna Regoutz**
Synchrotron-based characterisation of TiO_2 thin films

17:40 Poster Session and Wine Reception

Posters

1. **Mahmoud Ahmed**
   Elucidating the geometry of α-Cr_2O_3(0001) as a function of H_2O partial pressure

2. **Silvia Baldanza**
   Chemical State and adsorption geometry of L-alanine on Cu{111} surface

3. **Pilar Ferrer**
   Beamline I07: beamline of surface X-ray scattering in Diamond Light Source

4. **Hadeel Hussain**
   SXRD of wet oxide interface

5. **Ke-Jin Zhou**
   Beamline I21 – Resonant Inelastic X-ray Scattering (RIXS) at Diamond Light Source

6. **Robert Luck**
   Designing a thin film battery

7. **Atip Pengpad**
   Depth profiling study of colloidal type II quantum dots by synchrotron- radiation-excited X-ray photoelectron spectroscopy

8. **Michael Wagstaffe**
   Adsorption studies of p-aminobenzoic acid on titania

9. **Mark Jackman**
   Adsorption and Photocatalytic Degradation of 3-Fluoroaniline on Anatase TiO2 (101): A Photoemission and NEXAFS Study