

# Programme Schedule

## Monday 20<sup>th</sup> September 2010

- **15:00 BST**                    **Registration / Welcome Reception**
- **15:30**                         **Welcome:** Professor Pam Thomas (XTOP 2010 Chair)
  
- **15:45 – 16:45**                **Plenary Tutorial I**     *Chair: Professor Pam Thomas*  
**Dr Jean Susini (ESRF, France):** *High-resolution synchrotron-based X-ray imaging: trends and opportunities*
- **16:45 – 17:45**                **Plenary Tutorial II**     *Chair: Professor Pam Thomas*  
**Professor Brian Tanner (Durham University, UK):** *High Resolution X-ray Diffraction and Reflectometry: the same physics - different length scales*
  
- **18:00 – 19:15**                **Two Minute Poster Presentations I**  
**Chair:** *Dr David Walker*
  
- **19:30**                         **Dinner (Rootes Restaurant)**
  
- **20:30**                         **Poster Session I & Mixer (Science Concourse)**

## Tuesday 21<sup>st</sup> September 2010

- **09:00 – 10:45**                **Session I**                **Coherent Diffraction & Imaging**  
**Chair:** *Professor José Baruchel*
  - **09:00** Dr Anatoly Snigirev (ESRF, France): *In-line X-ray interferometers based on planar refractive lenses*
  - **09:30** Dr Alexander Kazimirov (CHESS, Cornell University, USA): *New diffraction imaging technique based on focused X-ray beams*
  - **09:45** Mr Micheal Schöbel (Technical University Vienna, Austria): *Internal stresses and voids in SiC-particle reinforced Aluminum for heat sink applications*
  - **10:00** Dr Wen Hu (Kansai Photon Science Institute, Japanese Atomic Energy Agency): *Direct observation of higher order atomistic structure in  $Ti_{50}Ni_{44}Fe_6$  at lower temperature phase*
  - **10:15** Dr Martin Dierolf (Technical University Munich, Germany): *Ptychographic coherent diffractive imaging in two and three dimensions*
  
- **10:45**                         **Coffee Break**
  
- **11:15 – 12:30**                **Session II**                **Industrial Applications**  
**Chair:** *Dr Paul Fewster*
  - **11:15** Dr Edward Mitchell (ESRF, France): *Industrial applications at the European Synchrotron radiation facility: from catalysts to ice cream*
  - **11:45** Dr Paul Ryan (Jordan Valley Semiconductors, UK): *Production metrology of advanced LED structures using high-resolution X-ray diffraction*
  - **12:00** Professor Mike Dudley (Stony Brook University, USA): *Industrial applications of synchrotron X-ray topography*
  
- **12:45**                         **Buffet Lunch (Science Concourse)**
  
- **13:45 – 15:45**                **Two Minute Poster Presentations II.**  
**Chair:** *Dr Tom Hase*

# Programme Schedule

Tuesday 21<sup>st</sup> September Continued...

- **15:45**                            **Tea Break**
  
- **16:15 – 18:00**                **Session III    Nanomaterials**  
**Chair:** *Professor Julian Stangl*
  - **16:15** Dr Virginie Chamard (CNRS, France): *Three-dimensional X-ray fourier transform holography: the Bragg case*
  - **16:45** Mr Andreas Biermanns (University of Siegen, Germany): *X-ray characterization of Au-free grown GaAs nanowires on Si*
  - **17:00** Dr Oleksandr Yefanov (DESY, Germany): *Orientation determination in single particle X-ray coherent imaging*
  - **17:15** Mr Eugune Wintersberger (Johannes Kepler University, Linz, Austria): *Fast methods for 3D simulations of X-ray diffraction data from nano-structures*
  - **17:30** Dr Heikki Suhonen (ESRF, France): *Hard X-ray phase contrast tomography of nano-scale materials*
  
- **18:30**                            **Dinner (Rootes Restaurant)**
  
- **20:00**                            **Poster Session II (Science Concourse)**

## Wednesday 22<sup>nd</sup> September 2010

- **09:00 – 10:30**                **Session IV    Advances in Laboratory-based Diffraction & Imaging**  
**Chair:** *Professor Vaclav Holý*
  - **09:00** Dr Martin Bech (Technical University Munich, Germany): *Developments in grating based X-ray dark-field and phase-contrast imaging using laboratory sources*
  - **09:30** Mr Karol Vegso (Institute of Physics, SAS, Bratislava, Slovakia): *Phase transitions in Ag nanoparticle langmuir film studied with novel table-top GISAXS setup*
  - **09:45** Miss Jennifer Stopford (Dublin City University, Ireland): *Three dimensional X-ray diffraction imaging of damage to silicon wafers*
  - **10:00** Dr Peter Zaumseil (IHP, Frankfurt, Germany): *Laboratory-based characterization of Ge epitaxially grown on nano-structured Si (001) wafers*
  
- **10:30**                            **Coffee Break**
  
- **11:00 – 12:35**                **Session V    Non-Ambient Studies**  
**Chair:** *Professor Keith Bowen*
  - **11:00** Dr Andreas Danilewsky (Freiburg University, Germany): *In-situ high temperature X-ray diffraction imaging of dislocation dynamics in silicon*
  - **11:30** Dr Tobias Schüllli (ESRF, France): *Substrate-enhanced supercooling in AuSi droplets*
  - **12:00** Mr Tomy dos santos Rolo (ANKA-ISS, KIT, Germany): *High speed micro-tomography at ANKA: implementation and first applications*
  - **12:15** Professor Pam Thomas & Dr David Walker (University of Warwick, UK): *Optical & X-ray topography study of self-organised domains in BaTiO<sub>3</sub>*
  
- **13:00**                            **Buffet Lunch & XTOP Committee Meeting**

