Optical Demands of Astronomy
Tuesday 16 June 2015
The UK Astronomy Technology Centre, Edinburgh

Agenda

09.30-10.00 Arrival and Registration

10.00-10.10 Welcome and Introduction
Martin O’Hara, National Strategy Manager
EPSRC Centre for Innovative Manufacturing in Ultra Precision, Cranfield University

10.10-10.40 Optical Challenges of Building the World’s Largest Telescope
Professor Colin Cunningham, UK European Extremely Large Telescope Programme Director
The UK Astronomy Technology Centre

10.40-11.10 Grinding and Metrology of Large Freeform Optics
Paul Morantz, Director
EPSRC Centre for Innovative Manufacturing in Ultra Precision, Cranfield University

11.10-11.30 BREAK

11.30-12.00 ZERODUR® - The Extremely Homogenous Close to Zero Expansion Material
Dr Peter Hartmann, Director, Marketing and Customer Relations
SCHOTT AG, Germany

12.00-12.30 Progress on ZERODUR® Lightweight Mirror Substrates
Dr Thomas Westerhoff, Director, Strategic Marketing
SCHOTT AG, Germany

12.30-13.00 High Resolution, High Performance Detector Solutions
Dr Colin Coates, Product Manager
Andor Technology

13.00-14.20 Networking Lunch and Tours
Tour 1, Tour 2 and Tour 3 commence at 13.30

14.20-14.50 The European Solar Telescope
Dr Sarah Matthews
UCL Mullard Space Science Laboratory

14.50-15.20 UK Participation in the Daniel K Inouye Solar Telescope
Prof Mihalis Mathioudakis
Queen’s University Belfast

15.20-15.40 BREAK

15.40-16.10 Structured Light – A New Tool for Optical Communication and Material Investigation
Dr Sonja Franke-Arnold, Reader in Physics and Astronomy
Glasgow University

16.10-16.40 Ultrafast Laser Inscription of Optical Components for Astronomical Instruments
Dr Robert Thomson, STFC Advanced Fellow and Lecturer
Heriot-Watt University

16.40-17.00 Two Generations of Compact Displacement Sensors
Prof Nick Weston, General Manager
Renishaw Edinburgh

17.00 Closing Remarks
Martin O’Hara

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