Optical Radiation Update
Thursday 18th October 2018, IET Glasgow: Teacher Building

FINAL PROGRAMME

09.00 – 09.30 Coffee and registration

09.30 – 09.35 Introduction

*Session: Clinical UV Phototherapy & MED/MPD Testing*  
*Chair: Colin Swift*

09.35 – 09.50 Experiences of an in house phantom for in cabin UV dosimetry  
Matthew Daniel, Portsmouth Hospitals NHS Trust

09.50 – 10.05 Development of evidence-based clinical dosimetry in phototherapy  
Mariusz Grocki, Nottingham University Hospitals NHS Trust

10.05 – 10.20 Handheld MED testers: An inter-comparison to inform requirements for acceptance testing and calibration  
Jackie McCavana, St. Vincent's University Hospital, Dublin

10.20 – 10.35 Hand-held UV sensitivity test devices calibration and how to minimise inherent limitations in accuracy  
Dr Chris Edwards, Aneurin Bevan University Health Board, Newport

10.35 – 10.50 Examination of a new device for MPD testing  
Philip Loan, Belfast Health & Social Care Trust

10.50 – 11.00 Results of UV Survey  
Jason Britton, Leeds Teaching Hospitals NHS Trust

11.00 – 11.30 Coffee and Poster Session

*Session: Optical Radiation Protection*  
*Chair: Fiammetta Fedele*

11.30 – 11.45 An innovative satellite-based technology supporting public skin cancer prevention and vitamin D sufficiency  
Dr Marco Morelli, siHealth Ltd

11.45 – 12.00 An investigation of different types of eyewear and face masks in protecting patients and operators from the harmful effects of Ultraviolet Radiation  
Jason Britton, Leeds Teaching Hospitals NHS Trust

12.00 – 12.15 Assessment of gaming spectacles as ocular protection in congenital erythropoietic porphyria  
Grace Aneju, Guy's & St Thomas’ NHS Foundation Trust

12.15 – 12.30 LED Lighting Technology & ‘Blue Sky’ Research – How Hazardous is the Sky?  
Dr Neil Haigh, Blueside Photonics Ltd

12.30 – 13.30 Lunch

*Session: Medical Lasers*  
*Chair: Shellagh Milligan*

13.30 – 14.00 Medical Lasers: What to measure?  
Invited speaker: Dr Tom Lister, Salisbury NHS Foundation Trust

14.00 – 14.30 A review of medical laser accidents: from a simple burn to death by laser  
Invited speaker: Dr Mani Manivannan, NHS Ayrshire and Arran

*Session: Guidelines & Regulations*

Dr Paul Freeman, Guy’s & St Thomas’ NHS Foundation Trust

Karen Fuller, HM Specialist Inspector of Health and Safety (Radiation), Health & Safety Executive

14.55 – 15.20 HSE inspector Q&A session  
Karen Fuller, HM Specialist Inspector of Health and Safety (Radiation), Health & Safety Executive

15.20 – 15.50 Coffee

*Session: Photodynamic Therapy*  
*Chair: Matthew Daniel*

15.50 – 16.05 Daylight PDT in the UK: an algorithm for accurate dosimetry, and when and where can we do it?  
Dr Paul O'Mahoney, University of Dundee/NHS Tayside

16.05 – 16.20 Quantification of light dose from daylight photodynamic therapy  
Jackie McCavana, St. Vincent's University Hospital, Dublin

16.20 – 16.35 A patient perspective on daylight PDT  
Dr Luke McLeilian, University of Dundee

16.35 – 16.50 Uniform light distribution as a design criterion in artificial daylight photodynamic therapy  
Dr Paul O'Mahoney, University of Dundee/NHS Tayside

16.50 – 17.05 Developing Quality Control Methodologies & Tolerances for Blue Light and Photodynamic Therapy Units  
Matthew Gardner, University Hospitals Birmingham NHS Foundation Trust

17.05 – 17.30 Questions and discussion

Organised by IPEM's Ultrasound & Non-Ionising Radiation Special Interest Group
POSTERS

1 Implementing a safe system for doing UVC Decontamination in a Hospital
Dr Janelle Reyes-Goddard, Gloucestershire NHS Foundation Trust

2 Grenz Ray Treatments in Dundee: Therapeutic Outcomes and Case Reports
Lynn Fullerton, Ninewells Hospital, Dundee

3 Dosimetry and Quality Assurance of Grenz Ray Therapy in Ninewells Hospital
Dr Ewan Eadie, Ninewells Hospital and Medical School, Dundee

4 Fractional Laser Tissue Ablation Visualised with High Resolution Magnetic Resonance Imaging
Dr Paul O'Mahoney, Ninewells Hospital and Medical School, University of Dundee

5 Automated Measurement of Illumination Uniformity in Phototherapy
Jennifer Summersgill, University of Aberdeen

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