Vision in the twilight zone: studies of visual performance under mesopic conditions

Rooms A & B, Northampton Suite, Refectory Building level 4 (old level 6)
City University,
Northampton Square, London.

PROGRAMME

09:30  Registration
10:00  Welcome
10:10  Invited talk - In the twilight zone: the complexities of mesopic vision
       A Stockman
       (Institute of Ophthalmology, University College London, London, UK)
10:40  Brightness contrast perception in the mesopic region.
       J P Freyssinier, M Rea and J Bullough
       (Lighting Research Center, Rensselaer Polytechnic Institute, Troy, NY, USA)
11:10  Severity of road traffic accidents: the detrimental effect of low lighting.
       S Plainis\textsuperscript{a} and I Murray\textsuperscript{b}
       (\textsuperscript{a} Vardinoyiannion Eye Institute of Crete, School of Medicine, University of Crete, Greece; \textsuperscript{b} Visual Sciences Lab, Department of Optometry & Neuroscience, UMIST, Manchester, UK)
11:40 – 12:10 Coffee
12:15  Visual performance in night-time driving conditions.
       M Eloholma, J Ketomäk, P Orreveläinen and L Halonen.
       (Helsinki University of Technology Lighting Laboratory, Finland)
12:35  A recognition threshold experiment with quasi-monochromatic mesopic visual targets.
       G Várády, P Bodrogi and J Schanda
       (University of Veszprém, Hungary)
12:55  Target detection and driving behaviour in a driving simulator at mesopic light levels.
       J Alferdinck
       (TNO Human Factors, Soesterberg, Netherlands)
13:15 – 14:15 Lunch
14:15  Simulating night-time driving in a virtual reality environment.
       A Szalmás, P Bodrogi and J Schanda
       (University of Veszprém, Hungary)
14:35  Characterising mesopic spectral sensitivity using reaction times.
       H Walkey, J Hartow and J Barbur
       (Applied Vision Research Centre, City University, London, UK)
14:55 Modelling mesopic efficiency curves.
A Forbes\textsuperscript{a}, T Goodman\textsuperscript{a} and H Walkey\textsuperscript{b}
\textsuperscript{a} National Physical Laboratory, Teddington, UK; \textsuperscript{b} Applied Vision Research Centre, City University, London, UK

15:15 Spectral effects in escape route lighting.
M Mulder and P Boyce
(Lighting Research Center, Rensselaer Polytechnic Institute, Troy, NY, USA)

15:45 – 16:15 Granville tea

16:15 Mesopic chromatic contrast sensitivity in anomalous trichromats.
E Liggins\textsuperscript{a}, I Moorhead\textsuperscript{a}, P Ward\textsuperscript{a}, I Murray\textsuperscript{b}
\textsuperscript{a} QinetiQ Centre for Human Sciences, Farnborough, UK; \textsuperscript{b} Visual Sciences Lab, Department of Optometry and Neurosciences, UMIST, Manchester, UK

16:45 The assessment of functional visual performance in the mesopic range.
J Barbur
(Applied Vision Research Centre, City University, London, UK)

17:15 Close

17:15 – 18:15 Supplementary round table discussion on mesopic photometry
To be chaired by Teresa Goodman (National Physical Laboratory)

19:00 Dinner

The organisers would like to thank the following companies for supporting Vision in the Twilight Zone:

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