Tuesday, 14th May 2024
Arrival from 13:30 for 14:00 start
Programme ends 17:30, networking reception until 18:30

Online participation also offered

Chancellor’s Hall, Senate House,
University College London, Malet Street, London, WC1E 7HU

LED lighting continues to expand its market share, taking over conventional technologies in all end-use applications, yet challenges and opportunities relating to lighting remain. This International Lighting Seminar brings together Experts from the IEA 4E SSLC Platform to present their latest work on a range of topics including a new Interlaboratory Comparison on Temporal Light Modulation (commonly known as flicker); research into new test methods and metrics; a literature review of health effects associated with lighting; the opportunity and impact on energy consumption of smart lighting; and a recent life-cycle assessment comparing linear fluorescent lamps and LED tubes. The SSLC Platform is offering this free half-day seminar – both on-line and in-person at the University College London campus – to anyone interested. Please register here.

Moderators: Prof Georges Zissis, Chair, IEA 4E SSLC Platform, La Place University Toulouse
Nils Borg, Manager, IEA 4E SSLC Platform, Stockholm, Sweden

Note: There will be a short Q&A after each presentation.

13h30  Arrival and coffee / tea / soft drink

14h00  Welcome and IEA 4E SSLC Platform Overview
Nils Borg, Manager, IEA 4E SSLC Platform, Sweden
– Welcome and introduction to the SSLC Platform
– A link between policy standards, testing and requirements
– Overview of work and activities
– Energy Savings Potential of Lighting Systems and Controls

14h15  Interlaboratory Comparison 2023
Dr Yoshi Ohno, NIST Fellow, National Institute of Standards and Technology, USA
– Purpose of IC 2023
– Findings of Nucleus Lab Comparison
– Progress on Participant Testing and Reporting
– Issues Identified and Data Being Prepared for Standardisation Community
14h45  **Improvements in Test Methods and Metrics**  
*Carsten Dam-Hansen, DTU, Denmark; Steve Coyne, Light Naturally, Australia*  
– Test of Temporal Light Modulation (TLM)  
– Influence of power supply selection on flicker metric $P_{st,LM}$  
– Stroboscopic effect SVM calculation: current approach and potential improvements  
– Standard test options for determining lifetime  
– Impact of long-duration switching  
– Research involving accelerated aging and pulse/soak testing at elevated temperatures and comparison to standard test method

15h40  Coffee / tea / soft drink break with light snacks

16h00  **Solid-State Lighting: Review of Health Effects**  
*Christophe Martinsons, CSTB, France*  
– Overview of new Lighting and Health report  
– Photobiological safety, glare, circadian effects, acute neuro-behavioural effects, temporal light modulation and long-term effects  
– Conclusions and recommendations

16h30  **Advanced Smart Lighting must also be Energy Smart**  
*Casper Kofod, Director, Energy Piano, Denmark*  
– Smart Lighting trends, barriers and potential  
– SSL Annex Second Report on Smart Lighting – findings  
– Performance when dimming and/or changing colour temperature  
– Regulation and Standards from IEC/CIE – need for characterisation  
– Recommendations for the future including integrating with controls

17h00  **LED Linear Lamp Life-Cycle Assessment**  
*Michael Scholand, Deputy Manager, SSLC Platform, UK*  
– Life-Cycle Assessment overview  
– Key findings and comparison with baseline fluorescent lamps  
– Conclusions and recommendations

17h25  **Thanks and closing remarks**  
*Prof Georges Zissis, Chair, IEA 4E SSLC Platform, La Place University Toulouse*

17h30  **Evening networking reception – wine and light snacks**  
*All participants are invited to stay and meet the speakers / network with colleagues*

18h30  **End of evening reception**