

CIE Australia Div 6 Report for 2023



Division 6

Photobiology and Photochemistry

What do we know about the effects of optical radiation on biological and photochemical systems? We study its effects on photosensitive materials both organic and inorganic.

Division 6 of CIE Australia did not participate materially internationally to the committee work and have no current local projects during 2023.

Changes at the top of CIE Division 6

- Change of D6 Director
 - Outgoing : Luc Schlangen (Netherlands)
 - Incoming : Wei Zhang (China)
- Change of D6 secretary
 - Outgoing : Luke Price (UK)
 - Incoming : Laura Bellia (Italy)

Annual D6 meeting was held on 21 September 2023 in Ljubljana Slovenia

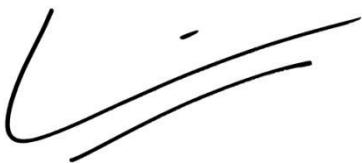
Division publications etc

- JTC19 progressed the publication of Terms and Definitions for Horticultural Lighting Supplement to the CIE International Lighting Vocabulary (CIE DIS-SP2:2023). This document provides an internationally agreed reference for terms and definitions in the field of horticultural lighting, which covers not only terms relating to optical radiation, but also terms relating to the application of optical radiation in horticulture, optical radiation sources, electric lighting installations, and plant physiology
- ISO/CIE DIS 28077 Photocarcinogenesis action spectrum (non-melanoma skin cancers). Solar ultraviolet radiation (UVR) is recognized as a major cause of non-melanoma skin cancer in human beings. Skin cancer occurs most frequently in the most heavily exposed areas and correlates with degree of outdoor exposure. Describing the relationship of exposure (dose) to risk (skin cancer) requires the availability of a spectral weighting function or action spectrum for photocarcinogenesis. This document proposes the adoption of an action spectrum (weighting function) derived from

experimental laboratory data and modified to estimate the non-melanoma tumour response in human skin.

- ISO/CIE TR 21783:2022 Light and Lighting – Integrative lighting – Non-visual effects. This Technical Report is prepared by ISO/TC 274, Light and lighting in cooperation with the International Commission on Illumination (CIE), the document provides an analysis and evaluation of the current state of the art with regard to ipRGC-influenced responses to light in applying this knowledge in the context of identified topics to be considered for use in lighting applications.
- Technical Note 15:2023 reports on the proceedings and consensus of the invited experts of The Second International Workshop on Circadian and Neurophysiological Photometry, 2019, Manchester (UK).
- JTC 6: New Joint Technical Committee The technical report will review current state-of-the-art of wearable alpha-opic light dosimetry methods in the scientific literature and beyond.
- New D6 reportership: A Comprehensive Checklist for reporting light characteristics in in-laboratory human studies using light as an intervention.
- CIE co-sponsored an International Workshop on Measurement and Standardisation of Lighting for Laboratory Mammals

27 January 2024

A handwritten signature in black ink, consisting of a large, stylized 'U' followed by a horizontal line and a small dash.

Urbain du Plessis