

Consultative Committee for Photometry and Radiometry (CCPR)
25th Meeting (on-line 10-11 May 2022)

**CCPR member report on activities in radiometry and photometry since the last
CCPR meeting (2019)**

Reply from: NMI Australia

Delegate: Errol Atkinson

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1. Summarize the recent progress in your laboratory with respect to measurement standards, research projects, and metrology services to fulfill the demands of customers in:
 - (a) broad-band radiometric quantities:
NMI has redeveloped its scale for responsivity of thermal detectors to broadband radiation from a Planckian radiator operating at 800 °C including evaluation of atmospheric absorption over short path lengths.
 - (b) spectral radiometric quantities:
None
 - (c) photometric quantities:
NMI has continued research into photometric uncertainties and the design of a primary transfer system resulting in minimised systematic uncertainties.
 - (d) other area(s) relevant to CCPR:
 2. What work in PR has been/will be terminated in your laboratory, if any, in the past /future few years? Please explain the reasons and provide the name of the institution if it has been/will be substituted by a DI or accredited laboratory.
None
 3. Summarize the Capacity Building and Knowledge Transfer activities undertaken by your institute in photometry and radiometry (courses, training, ...):
NMI has conducted 2 training courses in Photometry and Radiometry for Australian participants during COVID
 4. Summarize the research projects currently performed within a collaboration with one or more NMIs or Dis (name of the project, participants):
None

5. Are there any other research projects where you might be looking for collaborators from other NMIs or are there studies that might be suitable for collaboration or coordination between NMIs?

Research into the assessment of aperture/baffle edge reflection as a function of use of apertures under different optical geometries of sources and detectors would be beneficial in assisting to understand the differences observed between results presented by laboratories for CCPR-K3.a for example.

6. Have you got any other information to place before the CCPR in advance of its next meeting?

None

7. Bibliography of radiometry and photometry papers of your laboratory since the last CCPR (September 2019):

None