Session Program

7–11 Dec 2026



26th Australian Institute of Physics Congress and the Australian and New Zealand Conference on Optics and Photonics

COMMAD: Thermoradiative Power and Processes

The University of Sydney , Belinda Hutchinson Building
Abercrombie St & Codrington St NSW 2008

Tuesday 8 December

11:00

COMMAD: Thermoradiative Power and Processes

Session |
Location: The University of Sydney , Belinda Hutchinson Building, Abercrombie St & Codrington St NSW 2008 |
Convener: Charles Musca

11:00–11:30

Introduction to thermoradiative diodes for terrestrial power generation

Speaker
Jamie Harrison

11:30–11:45

Thermoradiative Diodes Using Black Phosphorus van der Waals Materials

Speaker
Yuchen Sun

11:45–12:00

Thermoelectric power generation in a graphene pn-junction: Towards graphene thermoradiative devices

Speaker
Griffin Stacey

12:00–12:15

Utilising semiconductor negative luminescence for communications

Speaker
Michael Nielsen

12:15–12:30

Photonic Engineering of PET Textiles for Broadband Radiative Cooling and Moisture-Managed Thermal Regulation

Speaker
Mr Ming Gao

12:30