Session Program

7–11 Dec 2026



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

COMMAD: THz and Infrared Materials and Devices

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

Thursday 10 December

14:00

COMMAD: THz and Infrared Materials and Devices

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

14:00–14:30

Semiconductor Nanostructures for Advanced Terahertz Detection and Polarimetry

Speaker
Michael Johnston

14:30–14:45

Tuneable 3D-Printed Fabry-Pérot Filters for the Terahertz Spectral Range

Speaker
Michal Zawierta

14:45–15:00

Engineering strong mid-infrared absorption in graphene at low Fermi energy by coupling to nanostructured SiC

Speaker
Hugh Paynter

15:00–15:15

A study on switching cycles of MEMS-based optical filters for infrared spectroscopy

Speaker
Dr Gurpreet Singh Gill

15:15–15:30

Geometry-engineered polarization control in MEMS-integrated spectrally tunable LWIR extraordinary optical transmission filters

Speaker
Oleg Bannik

15:30