

Conference Program

Time

Event

Day 1

Tue 19th

Kitson Room	9:00	Planning Day - Chief Investigators, Research Program Managers and Flagship Program Managers only
Mentelle Foyer	16:00 - 17:30	Registration
Beach Ampitheatre	18:00	Welcome to Country
Mentelle Deck	18:30 - 21:00	Welcome BBQ

Time

Event

Day 2

Wed 20th

Self Organised Activities
Volleyball / Beach walk/ Yoga/ Morning

Mentelle Room

- 9:00 [Welcome comments](#) - Lorenzo Faraone (UWA)
 9:10 [Plenary](#) - Dragomir Neshev (ANU) - What have we accomplished? Where are we going next? What is life after TMOS? Includes reports from our Research and Flagship Program Managers
 10:00 [Daria Smirnova \(ANU\) - Invited - Topological metasurfaces for manipulating light and matter](#)

Session 1 Chair Lorenzo Faraone

10:30 MORNING TEA

Session 2 Chair Daniel Morley

- 11:00 [Nitu Syed \(UoM\) - Invited - Synthesis and Application of Liquid Metal-Based Ultrathin Nanomaterials](#)
 11:30 Shaban Sulejman (UoM) - Tunable metasurfaces for infrared multi-modal image processing
 11:50 Yue Bian (ANU) - An Uncooled Short-wave Infrared GaAs Imager
 12:10 JP Ndabakuranye (RMIT) - Bilirubin sensing - lessons learned and future perspectives.

12:30 LUNCH

Session 3 Chair Henry Tan

- 13:30 Ivan Zhigulin (UTS) - Narrowband Electroluminescence from Colour Centres in hexagonal Boron Nitride
 13:50 Xiaoying Huang (ANU) - High-quality single photon sources from bottom-up single quantum dots in InP micro-ring resonators
 14:10 Tongmiao Fan (ANU) - Quantum Photon Pair Generation from Nonlinear Metasurfaces

14:30 AFTERNOON TEA

- 15:00 Team Building - Bikes for Tykes
 17:00 Poster Session - Mentelle Foyer

18:30 DINNER - PRESTON ROOM

Day 3

Thu 21th

Mentelle Room

Session 4 Chair
Jinyong Ma

Time	Event
	Self Organised Activities Volleyball / Beach walk/ Yoga/ Swim
9:00	Mark Brongersma (Stanford) - Invited - Meta-Imaging of Texture and Tissue
9:30	Lukas Jaeger (Jena Uni.) - Optical coupling of lasing InP nanowires
9:50	Laura Daniela Valencia Molina (ANU) - Nonlinear Optical Response of Gold Nanoparticles Interacting with MoS2 Monolayers
10:10	Karin Yamamura (UTS) - Quantum efficiency of blue colour center in hexagonal boron nitride
10:30	MORNING TEA

Session 5 Chair
Mariusz
Martyniuk

11:00	Gia Parish (UWA) - Invited - Defence research and innovation ecosystem in Australia – a work in progress. Panel Discussion - Current and emerging opportunities in defence landscapes Gia Parish (moderator), James Cooper-Maitland (Defence West), Scott Elson (L3Harris), Lorenzo Faraone (UWA)
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12:00	Reports from TMOS committees: Keynote: Photon Clicker (Outreach Committee, Michal Zawierta). IDEA: Culture survey - Eleanor Luond. Education Committee: Milos Toth. Industry Liaison Committee - Laurie Faraone. Infrastructure Committee - Ken Crozier
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12:30	LUNCH
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Session 6 Chair
Josephine Munro

13:30	Mario Hentschel (UniStuttgart) - Invited - Fabrication in Nanophotonics: Techniques and Applications
14:00	Oleg Banik (UWA) - Tunable MEMS metasurface for thermal infrared filtering
14:20	Benjamin Russell (UoM) - Thermal Tuning mechanisms for Switchable Spectral Filters and Their Applications
14:40	Yan Liu (UWA) - MEMS-based Tunable Optical Filter with Broad Bandwidth

15:00	AFTERNOON TEA
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Session 7 Chair
Aiswarya
Pradeepkumar

15:30	Jinghua Teng (A*STAR) - Invited - Van der Waals and Phase Change Materials for Tunable Flat Optics
16:00	Shuo Ma (UWA) - Damage-free lift off of HgCdTe thin films for future curved IR detector applications
16:20	Mingjie Yang (RMIT) - Optical Glucose Sensor Using 1600-1700 nm Near-Infrared (NIR) Light
16:40	Ingrid Ward (Curtin Uni.) - Invited - Fingerprinting the Past: FTIR as a method for tracing human activity in the Australian cultural landscape

18:30	GALA DINNER & AWARDS - GRAND BALLROOM
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Time

Event

Day 4

Fri 22th

Mentelle Room

Session 8 Chair
Lukas Wesemann

Time	Event
	Self Organised Activities Volleyball/Beach walk/ yoga/ Morning swim/ surf
9:30	Haoran Ren (Monash Uni.) - Invited - Synthetic metasurfaces for advanced photonic functions
10:00	Patrick Rufangura (UTS) - Mid-infrared enhanced thermal emission with germanium coupled silicon carbide surface phonon polariton on silicon
10:20	Adrian Keating (UWA) - Invited - The art of (scientific) presentation
11:00	Awards & Closing
11:30	LUNCH