

Conference Day 1

18.11.2025 | 10:00 - 21:00
(SEAVIEW/SEABREEZE ROOM)



SELF ORGANISED ACTIVITIES YOGA/ SWIM/ BEACH WALK

10:00 - 10:40

Registration (Seaview Room foyer)

10:40 - 11:10

Morning tea

11:10 - 11:30

Conference Welcome - **Prof. Igor Aharonovich (UTS)** and **Prof. Dragomir Neshev (ANU)**

Welcome to Country Ceremony

11:30 - 12:30

Tutorial - **Prof. Weibo Gao (Nanyang Technological University, Singapore)** "A Tunable Entangled Photon-Pair Source Based on a Van der Waals Insulator"

12:30 - 13:30

Lunch (Beach Bar & Dining)

13:30 - 14:30

Tutorial - **Prof. Goki Eda (National University of Singapore)** "Exciton Photonics with Atomically Thin Semiconductors"

14:30 - 14:50

James Liddle-Wesolowski (UTS) "Creation of Room Temperature Spin Active Quantum Emitters in Hexagonal Boron Nitride"

14:50 - 15:30

Afternoon tea

15:30 - 17:30

Shark Tank Competition

18:00 - 21:00

Welcome BBQ + Live Music (Arden Lounge and Garden Bar area)

Conference Day 2

19.11.2025 | 9:00 - 21:00
(SEAVIEW/SEABREEZE ROOM)



SELF ORGANISED ACTIVITIES YOGA/ SWIM/ BEACH WALK

9:00 - 10:00

Tutorial - **Prof. Hannah Joyce (University of Cambridge)**
"THz Photonics and Related Applications"

10:00 - 10:20

Dr. Gurpreet Singh (UWA) "Spectral Reconstruction of MEMS Fabry-Pérot Filter"

10:20 - 10:40

Ziwei Yang (ANU) "Dual-Wavelength Multifunctional Metalenses in Monocrystalline Silicon Carbide for Quantum Emission Collection"

10:40 - 11:10

Morning tea

11:10 - 11:30

Joshua Jordaan (ANU) "III-V Metasurface Lasers for Compact and Directional NIR Emission"

11:30 - 12:30

Tutorial - **Prof. Christina Lim (UoM)** "Radio-Over-Fibre Technology"

12:30 - 13:30

Lunch (Beach Bar & Dining)

13:30 - 14:30

Tutorial - **Prof. Yang Chai (Hong Kong Polytechnic University)**
"Bioinspired in-Sensor Computing for Artificial Vision"

14:30 - 14:50

Dr. Jiajun Meng (UoM) "Design and Demonstration of Polarisation - Resolved Ge Metalenses for MWIR Imaging"

14:50 - 15:30

Afternoon tea

15:30 - 17:30

Team Building - Amazing Race

18:00 - 21:00

Trivia Night and Dinner (Seaview Room)

Conference Day 3

20.11.2025 | 9:00 - 21:00
(SEAVIEW/SEABREEZE ROOM)



SELF ORGANISED ACTIVITIES YOGA/ SWIM/ BEACH WALK

9:00 - 10:00	Tutorial - Prof. Hai Son Nguyen (INL École Centrale de Lyon) "Engineering Flatbands and Unidirectional Emission in Bilayer Photonic Metasurfaces"
10:00 - 10:20	Yang Yu (ANU) "Indium Arsenide Nanowire Array Based Spectrometer for Extended-SWIR Applications"
10:20 - 10:40	Dawei Liu (ANU) "Broadband Miniature Computational Spectrometer with a Vortex Retarder"
10:40 - 11:10	Morning tea
11:10 - 11:30	Lincoln Clark (UoM) "Infrared to Visible Image Processing by a Nonlinear LiNbO3 Metasurface Using Structured Light"
11:30 - 12:30	PhD Career Panel - Prof. Lan Fu (ANU) and Prof. Milos Toth (UTS) "From Research to Reality: What Comes Next beyond TMOS?"
12:30 - 13:30	Lunch (Beach Bar & Dining)
13:30 - 14:00	Tutorial - Prof. Andrei Lavrinenko (Technical University of Denmark) "Surface Waves in Photonics"
14:00 - 14:20	Dr. Peter Elango (RMIT) "A Compact Optical Sensor to Self-Assess Skin Health After Sun Exposure"
14:20 - 15:00	Afternoon tea
15:00 - 17:30	Poster session
18:00 - 21:00	Gala Dinner and Awards Night (Seaview Room)

Conference Day 4

21.11.2025 | 9:00 - 13:30
(SEAVIEW/SEABREEZE ROOM)



SELF ORGANISED ACTIVITIES YOGA/ SWIM/ BEACH WALK

9:00 - 10:40	IDEA Development Workshop - Rachel Service (She/ Her) and Sadie Said (They/ Them) "Psychological Safety"
10:40 - 11:15	Morning tea
11:15 - 12:15	Tutorial - Prof. Mark Brongersma (Stanford University) "Harnessing Structural and Materials Resonances in Optoelectronic Devices"
12:15 - 12:30	Conference Conclusions - Prof. Igor Aharonovich (UTS)
12:30 - 13:30	Lunch (Beach Bar & Dining)

Poster Titles List

#	First Name	Last Name	Title	Type of Presentation
1	Oleg	Bannik	MEMS-enabled spectrally tunable plasmonic infrared filter	Poster presentation
2	Yue	Bian	An Uncooled Short-wave Infrared GaAs Imager	Poster presentation
3	Rocio	Camacho Morales	All-optical image processing by tuneable VO ₂ metasurfaces	Poster presentation
4	Jinyuan	Chen	Simultaneous Visible and Mid-Infrared Single-pixel Imaging Using Frequency-Encoded Light Sources	Poster presentation
5	Lincoln	Clark	Neural network parameterised topology optimization of metasurfaces	Poster presentation
6	Yiyang	Cui	Multi-channel wavelength-selective thermal emitter based on Tamm plasmon polaritons	Poster presentation
7	Sarah	Dean	Multispectral Polarisation Imaging with a Single Dielectric Metasurface	Poster presentation
8	Anna	Fitriana	Dispersion Engineering of SiN Membranes for Femtosecond Pulse Compression	Poster presentation
9	Xiaoying	Huang	Deterministically position a single quantum dot in a nanopillar diode for electrically driven single photon source	Poster presentation
10	Yana	Izdebskaya	All-Optical Tuning of Dielectric Metasurfaces Infiltrated with Dye-Doped Liquid Crystals	Poster presentation
11	Sudhanshu	Kumawat	Black phosphorous mid-infrared photonic crystals	Poster presentation
12	Phuong	Le	Rewritable Multi-level Colour Image Displays based on Antimony Selenide Thin Films	Poster presentation
13	Zhe	Li	An efficient numerical protocol for modelling 2D/3D nanowire single-photon avalanche detectors	Poster presentation
14	Fahia Taran	Munna	Damage Free HgCdTe Semiconductor Thin Film After the Epitaxial Lift-Off for Curved Infrared Detector	Poster presentation
15	Aayushi	Nanda	Electrostatically tunable metasurface for spectral filtering in Terahertz range	Poster presentation
16	Sergei	Nedic	Visible Integrated Photonics with Tantalum Pentoxide	Poster presentation
17	Gabriel	Oyarzo Ojeda	A Simulation-Based Inference Framework for Robust Quantitative Spectroscopy in Complex Media	Poster presentation
18	Carlo	Panu	Topological Edge States and Exceptional Points	Poster presentation
19	PARUL	PARUL	High-Efficiency Thin-Film GaAs Solar Cells with Selective Contacts: Design, Simulation, and Experimental Study	Poster presentation
20	Xiwen	Qiu	Generation of tunable quantum entanglement via phase change material in semiconductor metasurfaces	Poster presentation
21	Rahil	Rezwan	All-Optical Modulation of Atomically Thin Flat Lens	Poster presentation
22	Carsten	Ronning	Ion beams for photonics and quantum technology	Poster presentation
23	Maryam	Setareh	Generating solenoid beams with an amplitude-type spatial light modulator	Poster presentation
24	Yuzi	Song	Mid-Infrared photonic-crystal surface-emitting lasers based on InAs nanowire array	Poster presentation
25	Srishti	Srishti	Metasurface laser cavity	Poster presentation
26	Shaban	Sulejman	Metasurfaces for all-optical object recognition	Poster presentation
27	Lakshmi	Ullatil	Bottom Up Epitaxial Growth and characterization of III-V metasurfaces on (100) substrates for lasing applications	Poster presentation
28	RISHABH	VASHIST	Phase-Selective Growth Strategies for achieving Wurtzite GaP Nanowires	Poster presentation
29	Haiwei	Wang	Quantitative differential phase contrast imaging using a colour and polarization multiplexed nonlocal metasurface	Poster presentation
30	Fengkai	Wei	Enhancement of photoluminescence of Er ³⁺ ions by Mie-resonant silicon nitride metasurfaces	Poster presentation
31	Wei Wen	Wong	Photonic crystal-integrated dual-resonance InGaAs photodetector for optical glucose sensing	Poster presentation
32	Yang	Xu	Intracavity Solenoid Beam Generation with Metasurface	Poster presentation
33	Ziwei	Yang	All-Optical Tunable Dielectric Metasurfaces Driven by Polarization-Induced Optical Torque	Poster presentation
34	Anastasiia	Zalogina	Inverse-Designed Nanophotonic Demultiplexer for Exciton Routing	Poster presentation