



Conference Program

Time

Event

Tue 10th November

Rivera Room	11:00	TMOS Planning Day Chief Investigators, Research Program Managers and Flagship Program Managers only
Green Room Bar	16:00	Registration
Wrest Point Front Lawn	18:00	Welcome to Country - NITA Education
Green Room Bar	18:30 - 21:00	Welcome Function

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Day 1 Wed 11th

Self Organised Activities
Beach walk/ Yoga/ Swim

Derwent Room

- 9:00 [Welcome comments](#) - Madhu Bhaskaran (RMIT)
- 9:30 [Team building activity - Experiential Edge](#)
The Sandy Bay Quest, A team adventure in the streets and parks of The Bay

11:00

MORNING TEA

Session 1

- 11:20 [Invited: Willie Padilla \(Duke Uni\), "Autonomous Agentic Frameworks for the End-to-End Inverse Design of Electromagnetic Metamaterials"](#)
- 12:00 Tuomas Haggren (ANU), "All-optical Active Terahertz Metasurfaces for Ultrafast Polarisation Control"
- 12:15 Oleg Kameshkov (ANU), "Development of Terahertz Meta-Optical Components for Polarisation Control: Polarisers and Waveplates"
- 12:30 Tongmiao Fan (ANU), "Tailored quantum states from nonlinear metasurfaces"
- 12:45 Wei Wen Wong (ANU) "Coupling black phosphorus emission with bottom-up III-V microring cavities for mid-infrared lasing"

13:00

LUNCH

Session 2

- 14:00 [Invited: Heike Ebendorff-Heidepriem \(Adelaide University\), "Specialty optical glasses and fibres: a powerful platform for the exploration of new concepts and applications"](#)
- 14:40 Farid Khoshkhati (UniMelb), "Active Colour Tuning of Dielectric Mie voids using Liquid Crystals"

14:55

AFTERNOON TEA

Session 3

- 15:15 Phuong Le (RMIT), "Non-volatile tuning of Fano resonances in a phase-change"
- 15:30 Gurpreet Singh Gill (UWA) "Resolution-Enhanced Spectral Reconstruction Using MEMS Fabry-Pérot Filters"
- 15:45 [EPD Committee activity](#)
- 16:45 POSTER SESSION

18:30

DINNER - LONGHORN RESTAURANT

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Day 2

Thu 12th

Self Organised Activities
Beach walk/ Yoga/ Swim

Derwent Room

Session 4

9:00 DRAGO(n)'s DEN

10:30 MORNING TEA

Session 5

11:00 IDEA Committee activity part 1 - Introduction to Cultural Capability workshop - Olga Bryukhovets

12:00 LUNCH

Session 6

13:00 IDEA Committee activity part 2

14:15 Invited: Sejeong Kim (SKKU), "Structured light and chiral photonics"

14:55 Jiajun Meng (UniMelb), "Snapshot MWIR Polarimetric Imaging Enabled by a Metalens"

15:10 Chaohao Chen (UTS), "Filter-free multidimensional eSWIR vision via in-sensor encoding in nanosheet-array photodiodes"

15:25 AFTERNOON TEA

15:45 Invited: Kristinn Gylfason (KTH), "A guide to the design and packaging of silicon photonic MEMS"

16:25 Wen Wu Pan (UWA), "Metalens-Integrated MWIR HgCdTe Detectors for High Operating Temperature: Front- and Back-Illuminated Architectures"

16:40 Wenyi Li (FSU Jena), "Reflective Diffractive Optical Neural Network with Metasurfaces"

16:55 FREE TIME

19:00 GALA DINNER & AWARDS - BOARDWALK GALLERY

Conference Program

Time

Event

Day 3

Fri 13th

Derwent Room

Self Organised Activities
Beach walk/ Yoga/ Swim

Session 7

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| 9:00 | Outreach Committee update |
| 9:30 | Invited: Yeshaiahu (Shaya) Fainman, (UCSD) "Foundry enable photonics and applications" |
| 10:10 | Deepanshu Chaudhary (ANU), "Nanowire Breath Sensors for Metabolic Health Diagnosis and Monitoring" |

10:25

MORNING TEA

Session 8

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|-------|--|
| 10:45 | Invited: Irina Kabakova (UTS), "Brillouin and quantum imaging" |
| 11:25 | Rohini Ramachandran, (RMIT) "Portable Multi-Wavelength Optical Sensor for Decentralised Haemoglobin Testing" |
| 11:40 | Awards & Closing |

12:00

LUNCH

WREST POINT LAYOUT MAP

- Restaurants/Cafés**
- 1 ThePoint Revolving Restaurant
 - 2 Longhorn Smokehouse
 - 3 Kwan Ho
 - 4 The Boardwalk Bistro & Cafe

- Bars**
- 1 Birdcage Bar & Lounge
 - 2 The Green Room Bar
 - 3 Boardwalk Bar
 - 4 Casino Bar

- Gaming**
- 1 Casino&Gaming
 - 2 Boardwalk Gaming
 - 3 Club Forté Lounge

- Accommodation**
- 1 Wrest Point Tower
 - 2 Wrest Point Motor Inn
 - 3 Water Edge

- Photo Opportunity**
- 1 Wrest Point Fountain
 - 2 Wrest Point Lawns
 - 3 Wrest Point Boardwalk

- Function Rooms**
- 1 TheShowroom
 - 2 Tasman Room
 - 3 Plenary Hall
 - 4 Derwent Room
 - 5 Boardwalk Gallery
 - 6 Portlight Bar
 - 7 Wellington Room
 - 8 Riviera Room
 - 9 Mezzanine Boardroom
 - 10 Exhibition Foyer
 - 11 Wellington Foyer
 - 12 Drysdale Room
 - 13 Executive Boardroom
 - 14 Wellington Entrance

- Facilities Key**
- Reception & Guest Services
 - Lift 1, Lift 2, Lift 3, Lift 4
 - Car Park
 - Toilets
 - Information
 - Smoking Area
 - TAXI** Taxi Stand
 - Health Club
 - Bus Stop
 - ATM Machine
 - Laundry

- Points of Interest**
- 1 Wrest Point Kitchen Garden
 - 2 Wrest Point Boardwalk
 - 3 Wrest Point Mini Golf
 - 4 Walkway Trail
 - 5 Duck Crossing
 - 6 Duck Feeding

