

MIPAC 2025 Program



Date:	12, 13 and 14 November 2025
Venue:	Melbourne Business School and via Zoom
Registration:	https://forms.office.com/r/CSQx3aPR35
Enquiries:	MIPAC-Committee@unimelb.edu.au

Program

9:00am – 5:00pm AEDT	Day 1 -12 Nov 2025 - Academic Leadership Workshop Location: Melbourne connect, Manhari Room - Level 7, 700 Swanston Street, Carlton
9:00am – 9:10am	Welcome by Prof (Ashok) Muthupandian Ashokkumar - Director Melbourne Global Centre (Delhi)
9:10am – 9:35am	Introductions
9:35am – 9:55am	Overview of MIPA and MIPA Recruitment Process including Discussion on Call for Proposals
9:55am - 10:55am	Brief Research pitches by UoM and Partner Institutions Senior Academics on Engineering, Medicine and Science
10:55am - 11:20am	Morning Tea
11:20am - 12:20pm	Small group discussion (Theme based)
12:20pm – 1:30pm	Lunch
1:30pm – 3:00pm	Visits to various departments and lab tours
3:00pm – 5:00pm	Free time
9:00am – 5:00pm AEDT	Day 2 – 13 Nov 2025 - MIPAC Graduate Research Conference Location: Melbourne Business School, Mawby Theatre - 200 Leicester Street, Carlton
9:00am – 11:45am	Departmental Visits
12:00 – 1:00pm	Lunch
1:00 – 2:00pm AEDT	Plenary Session – Keynote Speakers
7:30 – 8:30am IST	

1:00 – 1:10pm AEDT 7:30 – 7:40am IST	A/Prof Jagannath Aryal – Director of Melbourne India Postgraduate Academy (MIPA)
1:10 – 1:20pm AEDT 7:40 – 7:50am IST	Prof Bhattacharya Santanu – Director IISER Tirupati
1:20 – 1:30pm AEDT 7:50 – 8:00am IST	Prof Debashish Chakravarty – IIT Kharagpur, Vice President (Online)
1:30 – 1:40pm AEDT 8:00 – 8:10am IST	Prof Margie Danchin – Associate Dean, International (MDHS)
1:40 – 1:50pm AEDT 8:10 – 8:20am IST	Prof Ramray Bhat – IISc Bangalore, Chair Office of International Relations (Online)
1:50 – 2:00pm AEDT 8:20 – 8:30am IST	Short Break
2:00 – 5:30pm AEDT 8:30- 11:30am IST	Graduate Research Presentations Session 1 Session Chairs: Sai Vikas Kona
2:00-2:10pm AEDT 8:30-8:40am IST	Zain Torres - Directional Spectra of Waves and of Wave-Breaking by Means of Explicit Measurements and Modelling
2:10-2:20pm AEDT 8:40-8:50am IST	Hema Jha – Enthalpy generation during Hydrothermal Carbonization of Food Waste
2:20-2:30pm AEDT 8:50-9:00am IST	Vivek Kumar Yadav – Causality in Hydrometeorological Systems: Process Understanding and Predictions
2:30-2:40pm AEDT 9:00-9:10am IST	Kunwar Abhishek Singh (Online) – Towards Robust Monitoring of Turbidity in the Ungauged Urban Reaches of Downstream Ganges River, India, using Sentinel-2 and Machine Learning Approaches
2:40-2:50pm AEDT 9:10-9:20am IST	Sumit Shankar Sarvankar - On the efficacy Of Riblets in mitigating losses due to wake induced transition over T106C blade
2:50-3:00pm AEDT 9:20-9:30am IST	Subham Saha (Online) - Reconfigurable Resistive Switching in Halide Perovskite-based Memristors for Neuromorphic Computing
3:00 – 3:20pm AEDT 9:30 - 9:50am IST	Networking break/afternoon tea
3:20-4:20pm AEDT 9:50-10:50am IST	Graduate Research Presentations Session 2 Session Chairs: Shubham Verma
3:20-3:30pm AEDT 9:50-10:00am IST	Mehdi Alam - Soft-rigid bonded granular mixes
3:30-3:40pm AEDT 10:00-10:10am IST	Aditya Aditya (Online) - Vegetation Segmentation from Aerial LiDAR Point Clouds
3:40-3:50pm AEDT 10:10-10:20am IST	Nimisha Kattumunda - Effect of activators on the performance of one-part alkali activated materials

3:50-4:00pm AEDT 10:20-10:30am IST	Sri Priyanka Kommula (Online) - Data-Driven Rainwater Harvesting Site Selection: A Machine Learning Approach
4:00-4:10pm AEDT 10:30-10:40am IST	Sai Keertana Kappagantula (Online) - Charged low complexity protein regions regulate fungal pathogenesis in <i>Cryptococcus neoformans</i>
4:10 - 4:20pm AEDT 10:40 –10:50am IST	Day 2: Concluding remarks
5:30pm – 9:00pm AEDT	Conference Dinner Venue: the Upper East Room, University House, 53 Professors' Walk, The University of Melbourne, Parkville VIC 3010 How to get there: University House
9:00am – 5:00pm AEDT	Day 3 – 14th Nov 2025 - MIPAC Graduate Research Conference Location: Melbourne Business School, Mawby Theatre - 200 Leicester Street, Carlton
9:00am – 11:45am	Departmental Visits
12:00-1:00pm AEDT	Lunch
1:00 -2:00pm AEDT 7:30- 8:30am IST	Plenary Session – Keynote Speakers
1:00 – 1:10pm AEDT 7:30 – 7:40am IST	A/Prof Debnath Ghosal – MDHS Lead, Melbourne India Postgraduate Academy (MIPA)
1:10 – 1:20pm AEDT 7:40 – 7:50am IST	Prof Collette Boskovic – Associate Dean (Graduate Programs), Faculty of Science.
1:20 – 1:30pm AEDT 7:50 – 8:00am IST	Dr Annapurna Devi Allu – Associate Dean of International Relations. IISER Tirupati
1:30 – 1:40pm AEDT 8:00 – 8:10am IST	Prof (Ashok) Muthupandian Ashokkumar - Director Melbourne Global Centre (Delhi)
1:40 – 1:50pm AEDT 8:10 – 8:20am IST	Dr Sreeparvathy Vijay – Assistant Professor at IIT Madras (Online)
1:50 – 2:00pm AEDT 8:20 – 8:30am IST	Prof Stan Skafidas - Deputy Dean Engagement (Faculty of Science)
2:00 – 3:00pm AEDT 8:30 – 9:30am IST	Graduate Research Presentations Session 3 Session Chairs: Nimisha Kattumunda
2:00-2:10pm AEDT 8:30-8:40am IST	Sai Vikas Kona - Improving streamflow record reliability through heteroscedastic error modelling and detection of rating curve shifts

2:10-2:20pm AEDT 8:40-8:50am IST	Susithra Sureshkumar - Cellulose Nanofiber-Based Gel Polymer Electrolytes: Influence of Functionalization on Ionic Conductivity for Na⁺ and Li⁺ Batteries
2:20-2:30pm AEDT 8:50-9:00am IST	Poornima Posa (Online) - Evolving Spatiotemporal Dependence of Flood Extremes across Australia: A MaxStable Process Approach
2:30-2:40pm AEDT 9:00-9:10am IST	Baral Joydeep (Online) - Minimal but mighty: structural and functional dissection of NHEJ in Mycobacterium tuberculosis
2:40-2:50pm AEDT 9:10-9:20am IST	Dhiren Swain - Digitalization of Slum lands: Effects of Digitalization on the Community and State Spaces
2:50-3:00pm AEDT 9:20-9:30am IST	Shilpa Koyyan (Online) - Assessing the transferability of L-band UAVSAR soil moisture retrieval parameters across agricultural crops
3:00 - 3:20pm AEDT 9:30 – 9:50am IST	Networking break/Afternoon tea
3:20 –4:10pm AEDT 9:50 – 10:20am IST	Graduate Research Presentations Session 4 Session Chairs: Dhiren Swain
3:20-3:30pm AEDT 9:50-10:00am IST	Srujan Shetty Kundapura - Ultrastructural Analysis of the Oral Microbiome Using Cryo-Electron Tomography
3:30-3:40pm AEDT 10:00-10:10am IST	Ashwani Kumar (Online) - Stride length estimation using UWB sensor aided by inertial sensors
3:40-3:50pm AEDT 10:10-10:20am IST	Subham Verma - Oxygen facilitated visible light mediated Iniferter RAFT Polymerization
3:50-4:00pm AEDT 10:20-10:30am IST	Shruti Agnihotri – (Online) Potential of electrospun PCL-PANI-Gelma Scaffold for osteogenic differentiation through electrical stimulation
4:00-4:10pm AEDT 10:30-10:40am IST	Santanu Soe (Online) - The Golden Ratio Primal-Dual Algorithm with Adaptive Step-size Rule for Convex Concave Saddle Point Problems
4:10 – 5:10pm AEDT 10:40 –11:40am IST	Panel Discussion on Professional Development