



Melbourne India Postgraduate Program (MIPP)

With IISc, IIT Kanpur, IIT Madras and IIT Kharagpur



1st MIPP Conference

30-31 Jan 2017

Theatre 2, Level 1, Alan Gilbert Building, 161 Barry St, Carlton VIC 3053



MIPPC 2017
MIPP Students' Conference

Day 1 – 30th Jan, 2017

From	To	Event	Session chair
8:30 AM	9:00 AM	Registration	Conference Opening Session Chair: Prof Dick Strugnell
9:00 AM	9:05 AM	Prof. Ashok Muthupandian- About MIPP and Introduction of the Chair	
9:05 AM	9:15 AM	Prof Margaret Sheil, Provost - Welcome Note	
9:15 AM	9:20 AM	Prof. Dick Strugnell, PVC-Graduate & International Research	
9:20 AM	9:30 AM	Prof Karen Day, Dean, Faculty of Science	
9:30 AM	9:40 AM	Prof Peter Scales, Director of Engagement, Melbourne School of Engineering	
9:40 AM	9:50 AM	Prof. R. Nagarajan, Dean, International Affairs, IITM	
9:50 AM	10:00 AM	Prof. Bharat Lohani, IITK	
10:00 AM	10:10 AM	Prof. Goutam Das, IITKgp	
10:10 AM	10:20 AM	Prof. Ramasesha, IISc	
10:20 AM	10:30 AM	Dr. Meenakshi Arora -Vote of Thanks & Program Outline	
10:30 AM	11:00 AM	Coffee break	

Technical Session 1: 11.00 am - 1.00 pm

11:00 AM	11:20 AM	Rajesh: Monitoring & Classifying neurological disorder movements from accelerometer signals in ICU.	Student Presentations Chair: Prof Saman Halgamuge Co-chair: Mukesh Soni
11:20 AM	11:40 AM	Akash: Role of cell wall components in the pathogenicity of the dimorphic fungus <i>Talaromyces marneffeii</i> .	
11:40 AM	12:00 PM	Shitanshu: Gaussian mixture model for the identification of psychogenic non epileptic seizures using a wearable accelerometer sensor.	
12:00 PM	12:20 PM	Nature: Utilization of glycerol for mixotrophic growth of microalgae for lipid accumulation.	
12:20 PM	12:40 PM	Nandakishore: Analysis of vocal fold dynamics from laryngeal CT images	
12:40 PM	1:00 PM	Neeta: Heat Stress and Sexual Reproduction in Brassicaceae.	
1:00 PM	2:15 PM	Lunch Break	

Technical Session 2: 2.15 pm - 4.15 pm

2:15 PM	2:35 PM	Himanshu: Entrainment and interface dynamics of turbulent plumes.	Student Presentations Chair: Prof James Bailey Co-chair: Neeta
2:35 PM	2:55 PM	Dileep: Two-dimensional energy spectra in a high Reynolds number boundary layer.	
2:55 PM	3:15 PM	Nitheesh: Direct Numerical Simulation of Turbulent Plume in a Confined Region	
3:15 PM	3:35 PM	Johnson: Additive manufacturing of TiAl.	
3:35 PM	3:55 PM	Prathap: Preparation, microstructure and mechanical properties of Al-Nb insitu nanocomposites.	
3:55 PM	4:00 PM	Closing Remarks: Day 1 - Udaya	



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Day 2 – 31st Jan, 2017

From	To	Event	Session chair
9:00 AM	9:20 PM	Shushma: Experimental Investigation Of Air-Sea Gas Transfer Coefficient Across Air-Water Interface In A Wind Wave Tank.	Student Presentations Chair: Prof Udaya Prampalli Co-chair: Aakash
9:20 PM	9:40 PM	Surabhi: Probabilistic modelling for a vehicle negotiating the right of way with a pedestrian.	
9:40 PM	10:00 PM	Gokul: Robust Calibration-Friendly Model Predictive Controller for Diesel Air Path.	
10:00 AM	10:20 AM	Vishnu: Generator Induced Operational Limits in a PV Rich Network: The Static Case	
10:20 AM	10:40 AM	Pavan: The relationship between Climate and Mechanisms of Tropical Cyclone Formation	
10:40 AM	11:10 AM	Coffee Break	

11:10 AM	11:30 AM	Shashank: Development and application of ab-initio methods for strongly correlated and strongly spin-orbit coupled molecular nanomagnets.	Student Presentations Chair: Dr. Meenakshi Arora Co-chair: Gokul
11:30 AM	11:50 AM	Chinchu: Investigating Impact of Groundwater Depletion on Groundwater Dependent Agriculture.	
11:50 AM	12:10 PM	Bosirul: Development of a polymer inclusion membrane (PIM) with high stability and selectivity for Zn(II).	
12:10 PM	12:30 PM	Shivansh: Relating physico-chemical and Biological processes in Hyporheic zones.	
12:30 PM	12:50 PM	Akhil: The Dynamics of Functional Connectivity in the Human Brain.	
12:50 PM	2:00 PM	Lunch Break	

2:00 PM	2:20 PM	Partha: Design and implementation of Lightweight stream ciphers that are resistant to power analysis attacks.	Student Presentations Chair: Prof Ashok Muthupandian Co-chair: Chinchu Mohan
2:20 PM	2:40 PM	Salil: Cooperative Localization of Unmanned Aerial Vehicles using lowcost sensors.	
2:40 PM	3:00 PM	Debajit: Reconstruction of incomplete functional data.	
3:00 PM	3:20 PM	Sanjay: Measuring the mass of galaxy clusters through gravitational lensing of the cosmic microwave background.	
3:20 PM	3:30 PM	Closing Remarks – Prof. Dick Strugnell	
3:30 PM	4:00 PM	Coffee	



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Conference Venue / Map

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