

Day 1

8:45	9:10	Registrations			
Keynote 1				Session Chair	
9:15	10:00	1	On shallow horizontal convection	Gregory J. Sheard	Vassili Kitsios
10:00	11:00	Morning Tea			
Session 1A					
11:00	11:15	2	Three-dimensional Stability of Natural Convection Flows in Inclined Enclosures	*Henry K Shen, Wisam K. Hussam and Gregory J. Sheard	
11:15	11:30	3	Natural convection of viscoplastic fluids induced by internal heat generation using a lattice Boltzmann method	Gholamreza Kefayati	
11:30	11:45	4	Velocity Calculation Based on Temperature Measurements of Natural Convection Around a Horizontal Cylinder	*Kaisar Al Shami, Krishna M Talluru and Andrew Neely	
11:45	12:00	5	Vortex Generators for Passive Cooling of Rooftop PV Modules in Free Convection Conditions at Different Roof Inclination Angles	Svetlana Tkachenko, Zibo Zhou, Tingyi Zhang, Charitha De Silva, Victoria Timchenko and Martin Green	
12:00	12:15	6	Enhancement of Heat Transfer through a Vertical Heated Channel by Flow Blockage	Quang Duy Nguyen and Chengwang Lei	
12:15	12:30	7	Investigation of coupled flow and thermal fields during vortex induced heat transfer enhancement from a thermally active flat plate placed inside a square duct	*Aakash Sundaresan, Atul Srivastava and Callum Atkinson	
12:30	14:00	Lunch in the foyer outside the seminar room			
Keynote 2				Session Chair	
14:00	14:45	8	Yet another talk on the side heated cavity	Stuart Norris	Svetlana Tkachenko
Session 1B					
14:45	15:00	9	Scaling of structure functions in a turbulent vertical buoyancy layer	*K. R. Maryada, S. W. Armfield, M. MacDonald, P. Dhopade and S. E. Norris	
15:00	15:15	10	Direct numerical simulation of turbulent stratified and destratified open channel flow for $Pr=7$ using a multi resolution scheme	*Bahare Jahani, Michael MacDonald and Stuart Norris	
15:15	15:30	11	Laboratory experiments of melting ice in warm salt-stratified environments	*James Sweetman, Callum Shakespeare, Kial Stewart and Craig McConnochie	
15:30	16:00	Afternoon Tea			
Session 1C					
16:00	16:15	12	On the Transition to Free Convection in the Atmospheric Boundary Layer	Michael Heisel	
16:15	16:30	13	Proper orthogonal decomposition reduced order model of the global oceans	Vassili Kitsios, Laurent Cordier and Terence J. O'Kane	
16:30	16:45	14	Mountain Waves Over the South Andes: Observations & Application of Linear Theory	*Thomas Valentini, Vassili Kitsios, Joseph Klewicki and Jimmy Philip	
16:45	17:00	15	Planar buoyant jets and plumes in a turbulent channel crossflow	Yicheng Cao, Andrew Ooi and Jimmy Philip	
17:00	18:00	Laboratory Visit			
18:30	21:00	Dinner in the South Room of the University House Woodward Conference Centre (Law Building, 10th floor, 106/185 Pelham St, Carlton VIC 3053)			

Day 2

8:45	9:10	Registrations		
Keynote 3				Session Chair
9:15	10:00	16	Variable property effects on the linear stability of a natural convection boundary layer	Junhao Ke
10:00	11:00	Morning Tea		
Session 2A				
11:00	11:15	17	Study on the Applicability of a Machine-learning Framework to Improve Modeling for Thermal Stratification	Takuo Oda, Shimpei Okayasu, Nobuhide Hara, Koichi Tanimoto, Ali Haghiri, Xiaowei Xu and Richard D. Sandberg
11:15	11:30	18	Evaluation of the effect of distance from the jet outlet on periodic flow generation on a heated wall	*Takuma Koizumi, Takuma Kogawa, Juan F. Torres, Steven Armfield and Atsuki Komiya
11:30	11:45	19	Local Mixing of Planar Gravity Currents in a Stratified Ambient	*W. K. Lam, L. Chan, D. Sutherland, R. Manasseh, K. Moinuddin and A. Ooi
11:45	12:00	20	A simple and efficient bushfire model using Lattice Boltzmann Method	*Seyed Mohsen Hashem Zadeh, Li Wang, John Young and Fang-Bao Tian
12:00	12:15	21	CFD investigation of the drying rates inside a ventilated metal roof cavity	Wei Li and Rajnish Sharma
12:15	12:30	22	Internal aerodynamics of racing tyres	*Ryan Flintoff, Kunaal Patel, Thomas Golz and Daniel Chung
12:30	14:00	Lunch in the foyer outside the seminar room		
Keynote 4				Session Chair
14:00	14:45	23	Convection and double-diffusive effects in the ocean beneath Antarctic ice shelves	Catherine A. Vreugdenhil
Session 2B				
14:45	15:00	24	Convective Dynamics in the Southern Ocean: Role of Turbulent Mixing in the Formation of Polynyas	*Ankit Bhadouriya, Bishakhdatta Gayen, Joe Klewicki and Rakesh Kumar
15:00	15:15	25	Three-dimensional Overturning Circulation in the North Atlantic: Rethinking Ocean Convection, Upwelling Dynamics, and Buoyancy- Driven Circulation	*Bahman Ghasemi, Bishakhdatta Gayen and Catherine A. Vreugdenhil
15:15	15:30	26	Naturally Convected Laminar and Turbulent Boundary Layers of a Melting Vertical Ice Face	*Pamoda Herath, Saurabh Pathak, Bishakhdatta Gayen, Joseph Klewicki and Jimmy Philip
15:30	15:45	Closing Session		
15:45	16:15	Afternoon Tea and Social event		