

Day 1

| Keynote 1 | | | | |
|-----------|-------|---|--|--------------|
| 9:00 | 10:00 | 1 | Glimpsing the flow physics of regime changes in thermal convection | Daniel Chung |

10:00 10:30 Morning Tea

| Session 1A | | | | |
|------------|-------|---|---|---|
| 10:30 | 10:50 | 2 | Prandtl number effects in rough-wall turbulent heat transfer | Kevin Zhong, Nicholas Hutchins and Daniel Chung |
| 10:50 | 11:10 | 3 | The dynamics of open ocean convection | Taimoor Sohail, Bishakhdatta Gayen and Andrew McC. Hogg |
| 11:10 | 11:30 | 4 | Application of an Integral Model to an Unsteady Natural Convection Boundary Layer | Junhao Ke, N. Williamson, S. W. Armfield, S. E. Norris and A. Komiya |
| 11:30 | 11:50 | 5 | Navier–Stokes based linear model for stratified turbulent channel flows | Anagha Madhusudanan, Simon. J. Illingworth, Ivan Marusic and Daniel Chung |
| 11:50 | 12:10 | 6 | An Evaluation of Subgrid-Scale Heat Flux of Compressible Turbulent Rayleigh-Benard Convection | Liyuan Liu, Chitrarth Lav and Richard Sandberg |
| 12:10 | 12:30 | 7 | The Influence of a Thermally Stratified Atmospheric Boundary Layer on Wind Turbine Wakes | Warit Chanprasert, Rajnish Sharma, John Cater and Stuart Norris |

12:30 13:30 Lunch

| Session 1B | | | | |
|------------|-------|----|---|--|
| 13:30 | 13:50 | 8 | Onset of Horizontal Convection | TzeKih Tsai and Gregory J. Sheard |
| 13:50 | 14:10 | 9 | Analysis of horizontal natural convection under a novel non-Boussinesq approximation | Peyman Mayeli, Tzekih Tsai and Gregory J. Sheard |
| 14:10 | 14:30 | 10 | Sidewall Constraints on Laminar Horizontal Convection in Very Shallow Enclosures | Sajjad Hossain, Tony Vo and Gregory Sheard |
| 14:30 | 14:50 | 11 | Influence of Prandtl number on the onset of instability for inclined differentially heated cavity flow | Krishna Reddy Maryada and Stuart Norris |
| 14:50 | 15:10 | 12 | Secondary instability in thermocapillary-driven convection in half-zone liquid bridge of high Prandtl number fluids | Toru Ogasawara, Kosuke Motegi, Takuma Hori and Ichiro Ueno |
| 15:10 | 15:30 | 13 | The effect of partition thermal conductivity and thickness on the transient conjugate natural convection flow and heat transfer in a partitioned differentially-heated cavity | Mehdi Khatamifar, Wenxian Lin, Steven Armfield and Michael Kirkpatrick |

15:30 16:00 Afternoon Tea

| Session 1C | | | | |
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| 16:00 | 16:20 | 14 | Transient Natural Convection in Short Cooling Towers | Kamel Hooman and Fahad Sabri |
| 16:20 | 16:40 | 15 | Passive downdraft cooling of large spaces in hot climates | Svetlana Tkachenko, Victoria Timchenko, John Reizes, Chris Menictas, Atul Bhargav, Harish Palanhandalam-Madapusi, Akhil Ashar |
| 16:40 | 17:00 | 16 | Passive self-insulation in cylindrical solar hot water tanks | Si Thu Paing, Timothy Anderson and Roy Nates |
| 17:00 | 17:30 | Closing session | | |
| 17:30 | 18:30 | Session for PhD students | | |
| 18:30 | 22:00 | Workshop dinner at Rubyos | | |

Day 2

| Keynote 2 | | | | |
|-----------|-------|----|--|-------------------|
| 9:00 | 10:00 | 17 | The Behaviour of Turbulent Plumes at the Margin of Greenland | Craig McConnochie |

10:00 10:30 Morning Tea

| Session 2A | | | | |
|------------|-------|----|--|--|
| 10:30 | 10:50 | 18 | Natural Convection Flow in a Partitioned Cavity with Isoflux Boundary Condition | C. Y. Bi, S. W. Armfield, N. Williamson, M. P. Kirkpatrick, and S. E. Norris |
| 10:50 | 11:10 | 19 | A numerical study of heat transfer inside a single slope solar still | Benhadji Djamel, Timothy Anderson and Roy Nates |
| 11:10 | 11:30 | 20 | Decomposition of the structures of the by-pass transition in vertical channel natural convection flow | Martin Thebault, Stéphanie Giroux-Julien, Victoria Timchenko, Christophe Ménézo, John Reizes |
| 11:30 | 11:50 | 21 | Natural Convection in Partially Heated Rayleigh-Bènard Cell: Combined Experimental and Numerical Investigation | Nima Nadim, Tilak. T. Chandratilleke and Nicolas Hann |
| 11:50 | 12:10 | 22 | Characteristics of a buoyant plume in cross flows | Yicheng Cao, Jimmy Philip and Andrew Ooi |
| 12:10 | 12:30 | 23 | Three-dimensional particle tracking velocimetry with a stereoscopic shadowgraph system | Yu Wu, Qian Wang, C.Y. Zhao, C. Lei |

12:30 13:30 Lunch

| Session 2B | | | | |
|------------|-------|----|--|--|
| 13:30 | 13:50 | 24 | Heat Transfer Enhancement Investigation in A novel Flat Plate Heat Exchanger | Salman Al zahrani, Mohammad S. Islam, Suvash C. Saha |
| 13:50 | 14:10 | 25 | Effects of aspect ratio on water-filled enclosures subjected to unsteady temperature forcing | Linjing Zhou, Steven Armfield, Nicholas Williamson, Michael Kirkpatrick, and Wenxian Lin |
| 14:10 | 14:30 | 26 | Experimental flow statistics in buoyant jets with and without refractive index matching fluids | Himanshu Mishra and Jimmy Philip |
| 14:30 | 14:50 | 27 | Thermo-magnetic Convection for Electrical Current-Carrying Micro-Wires in Ferrofluid: An Experimental Approach | Vinay Kumar, Van Dau, Nam-Trung Nguyen and Peter Lloyd Woodfield |
| 14:50 | 15:10 | 28 | A numerical study of outdoor wind effect on convective heat loss from human body | Jiwei Zou, Chengwang Lei, Jianlin Liu, Jianlei Niu |
| 15:10 | 15:30 | 29 | Machine learnt heat flux models for turbulent mixed convection | Xiaowei Xu, Andrew S. H. Ooi and Richard D. Sandberg |

15:30 16:00 Workshop ends / Afternoon Tea

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| 16:00 | 17:00 | | Fluids lab tours, Civil & AMME | |
| 17:00 | 18:30 | | Social event @ AMME Tea Room | |