



THE UNIVERSITY OF
MELBOURNE

Melbourne
Energy
Institute

MEI Symposium 19

Program

Date:	13 December 2019	Time:	8:00am to 5:00pm
Venue:	Basement, Melbourne School of Design, The University of Melbourne, Parkville Campus		
Registration:	https://energy.unimelb.edu.au/news-and-events/events/mei-symposium-2019		
Cost:	Entry is free	Enquiries:	mei-info@unimelb.edu.au

Registration

Location: MSD Basement Foyer

7:30 – 8:00am **Registration and coffee**

Opening Keynote

Location: MSD Basement Theatre B117

8:00 – 9:00am **Dr. Kerry Schott AO** – Chair, Energy Security Board
Keynote: Designing the next energy market

Stream 1 (AM)

Energy Systems

Location: Singapore Theatre

9:00 – 10:00am **Prof. Nando Ochoa** – University of Melbourne
Keynote: Unlocking Bottom-Up Services: From DER Integration to Orchestration

10:00 – 10:30am **Ms. Han Wang** – University of Melbourne
Techno-economic analysis of multi-services provision from smart community energy systems

10:30 – 11:00am **Dr. Maria Vrakapolou** – University of Melbourne
Dealing with renewable generation uncertainty in power system operation

11:00 – 11:30am **Dr. Sleiman Mhanna** – University of Melbourne
Integrated Electricity-Gas-Hydrogen System Modelling for Future Fuel Scenario Analysis and Planning

11:30 – 12:30pm **Prof. Gerard Ledwich** – Queensland University of Technology
Keynote: Emerging issues in Energy Delivery

Stream 2 (AM)		Environment and Resources	Location:	Malaysian Theatre
9:00 – 10:00am	Prof. Lee Godden – University of Melbourne Keynote: Resilient Energy Infrastructure: Risk and Legal Responses			
10:00 – 10:30am	Dr. Nilakshi Waidyatillake – University of Melbourne The Impact of Particulate Matter (PM2.5 and PM10) on Premature Mortality			
10:30 – 11:00am	Dr. Claire Vincent – University of Melbourne The meteorology of rapid changes in the wind and sun			
11:00 – 11:30am	Mr. Achyut Mishra – University of Melbourne Improvements in the estimation of trapping capacities of CO2 storage reservoirs			
11:30 – 12:30pm	Dr. Andrea Hinwood – Chief Environmental Scientist, EPA Victoria Keynote: Air quality assessment and management			
Lunch			Location:	MSD Basement Foyer
12:30 – 1:30pm	Lunch, poster exhibition and judging			
Stream 1 (PM)		Power Generation and Transport	Location:	Singapore Theatre
1:30 – 2:30pm	Prof. Richard Sandberg – University of Melbourne Keynote: Simulation and data-driven modelling to improve gas turbines			
2:30 – 3:00pm	Mr. Davy Brouzet – University of Melbourne Numerical simulations of reacting flows: Impact of chemistry modelling on combustion noise			
3:00 – 3:30pm	Ms. Morgan Li – University of Melbourne Turbulent boundary layers evolving over a rough-to-smooth change in surface condition			
3:30 – 4:00pm	Dr. David Jones – University of Melbourne Emerging Solar Cell Technologies			
4:00 – 4:30pm	Mr. Mostafa Naemi – University of Melbourne A data driven, hierarchical approach to wind farm modelling			
4:30 – 5:00pm	Dr. Kai Morganti – Project Manager, Transport Workstream, The Oil and Gas Climate Initiative Opportunities to decarbonise the transport sector using low-carbon fuels			
Stream 2 (PM)		Hydrogen and Clean Fuels	Location:	Malaysian Theatre
1:30 – 2:30pm	Prof. Paul Webley – University of Melbourne Keynote: Clean Fuels from Hydrogen – a case study of Dimethyl Ether (DME)			
2:30 – 3:00pm	Dr. Joshua Lacey – University of Melbourne Clean combustion in hydrogen-fuelled, reciprocating engines			
3:00 – 3:30pm	Dr. Ranjeet Singh – University of Melbourne Hydrogenation of Carbon dioxide to fuel (Methanol) via catalysis			
3:30 – 4:00pm	Dr. Pedro Orbaiz – Partner at Logios and Associate Professor at Instituto Tecnológico De Buenos Aires H2 buses. ICE or Fuel cell?			
4:00 – 5:00pm	Dr. HyungKuk Ju – Research Scientist, Electrochemical Energy Systems, CSIRO Energy Keynote: Emerging electrochemical technologies for hydrogen and ammonia production			
Close				

Thank you to our partners



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