

Day Program – AORES 2018

Monday 19 November, 2018

INORE Social Event at AORES for early career researchers

Day 1 – Tuesday 20 November, 2018

Time	Lead Author	Topic
11:00	Registration and lunch	
12:10	Welcome and housekeeping	
Technical Session 1 – Wave energy		
12:15	Deborah Greaves (University of Plymouth)	Keynote address An introduction to the Supergen ORE Hub with some examples of recent research projects at Plymouth university
13:00	Benjamin Schubert (Uni of Adelaide)	Phase dependence in bistable submerged wave energy converters
13:15	Alireza Valizadeh (Carnegie Clean Energy)	Experimental study of a multi-moored point absorber wave energy converter
13:30	David Skene (UWA)	Phase-resolved wave forecasts for wave energy converters in unidirectional seas
13:45	Damon Howe (UTAS)	The offshore solution: floating breakwater integrated oscillating water column wave energy converter
14:00	Francois Flocard (UNSW)	Marine spatial planning of marine renewable farm along NSW coastline
14:15	Afternoon Tea	
Technical Session 2 – Tidal energy		
14:45	Daniel Coles (Simec Atlantis Energy)	Keynote address Free Stream Tidal Generation – Ready for Large Scale Commercialisation
15:30	Masoud Rahimian (AMC, UTAS)	The impact of evaluation method on the performance of the horizontal axis marine current turbine
15:45	Jean-Christophe Allo (Sabella)	Real scale project to commercial openings
16:00	Philip Marsh (AMC, UTAS)	Multi-criteria evaluation of Australian tidal energy sites
16:15	Matt Lewis (Bangor Uni.)	Improving Methods of Characterising Resource, Interactions and Conditions at Tidal Energy Sites: The METRIC project
16:30	Mark Hemer (CSIRO)	Australia's offshore renewables - where do the opportunities lie?
17:00	Sundowner and poster session (UWA watersport complex)	
18:30	INORE event, Stand up paddle boarding on the SWAN river	

Day 2 – Wednesday 21 November, 2018

Time	Lead Author	Topic
8:25	Welcome and housekeeping	
Technical Session 3 – Ocean renewable energy		
8:30	Henry Jeffrey (University of Edinburgh, Ocean Energy Systems)	Keynote address Technology Collaboration Programme for Ocean Energy Systems
9:15	Martijn Klabbers (Advisian)	Obtaining high-quality metocean data
9:30	Remo Cossu (UQ)	Methods of seabed surveys for renewable energy devices in wave and tidally-driven environments in Tasmania, Australia
9:45	Haley Viehman (Echoview)	All in the timing: monitoring fish at tidal energy sites
10:00	Cedric Morandini (Bureau Veritas)	Regulatory framework for offshore renewable energy devices
10:15	Morning Tea	
Technical Session 4 – Wind energy		
10:45	Morten Liingaard (Ørsted)	Keynote address Offshore Wind – from demonstration to zero bid
11:30	Britta Bienen (UWA)	Foundations for offshore wind turbines – the role of centrifuge modelling
11:45	Laith Tapper (NGI)	Considerations in the foundation design for offshore renewable energy infrastructure in the Asia Pacific
12:00	Raffaele Ragni (UWA)	Suction buckets for offshore wind turbine foundations
12:15	Barry Lehane (UWA)	Effect of installation method on lateral and axial capacity of monopiles
12:30	Paul Taylor (UWA)	Progress on a simple model for wave loads on fixed vertical cylinders
12:30	Lunch	
13:30	AMET roundtable discussion – part 1 Developer Showcase will introduce wave and tidal technology companies. Confirmed companies include Carnegie Clean Energy, MAKO Tidal Turbines, SABELLA SAS, Verdant Power and Wave Swell. Four additional companies are pending.	
15:00	Afternoon Tea	
15:30	Alejandro Moreno (US department of Energy)	Keynote address Marine Energy: Developments and Opportunities in the U.S.
16:00-18:00	AMET roundtable discussion – part 2 Developing Markets for Ocean Renewable Energy - two experts panels will share their views on domestic and international markets for ocean energy technologies.	
18:30-21:30	Symposium dinner (UWA University Club)	

Day 3 – Thursday 22 November, 2018

Time	Lead Author	Topic
8:30	Welcome and housekeeping	
Technical Session 5 – Wave energy		
8:35	Jørgen Hals Todalshaug (NTNU, CorPower Ocean AB)	Keynote address How to make a wave energy converter
9:20	Harrif Santo (A*STAR)	The performance of the three-float M4 wave energy converter off Albany, on the south coast of Western Australia
9:35	Brian Winship (AMC, UTAS)	Use of reflections to simulate WEC array effects
9:50	Guy McCauley (UWA)	Radiation testing of a submerged wave energy converter
10:05	Tom Denniss (Wave Swell Energy)	Development of a vented OWC wave energy converter with a unidirectional air turbine power take-off
10:20	Richard Manasseh (Swinburne UT)	Performance of arrays of generic wave energy converters around the Australian continent
10:35	Morning Tea	
11:00	Bryson Robertson (Oregon State University, Pacific Marine Energy Centre)	Keynote address Wave Energy – Quantifying the Resource and Quantifying the Future Value
11:45- 12:45	Discussion session I Review of key achievements and emerging/remaining challenges in the ORE sector 2 years on from AORES 2016	
12:45	Lunch	
Technical Session 6 – Tidal energy		
13:30	Vicky Coy (ORE Catapult)	Keynote address UK Perspectives on the offshore renewable energy sector
14:15	Jarrold Sinclair (MAKO Tidal Turbines)	Demonstrating the potential of tidal power at the Port of Gladstone
14:30	Ian Milne (UWA)	Distortion of turbulence onset to a tidal turbine
14:45	Alex Hay (Dalhousie Uni.)	On remote acoustic turbulence measurement in a high-flow tidal channel
15:00	Irene Penesis (AMC, UTAS)	Tidal energy in Australia – Assessing resource and feasibility to Australia's future energy mix
15:15	Afternoon Tea	
15:45	Christophe Gaudin (UWA)	Keynote address Wave Energy Development in Albany: Example of successful developer-university partnership.
16:30- 17:30	Discussion session II Identification, assessment and selection of an optimum site for a project	
18:00- 19:30	Thanksgiving Day Sundowner US Consul General's Residence – 8 Bellevue Terrace, West Perth *** RSVP required before Friday 16 Nov - aores2018-oceans@uwa.edu.au ***	

Friday 23 November, 2018

ARENA Tidal Energy Workshop (registration required: AUSTEn@utas.edu.au)

Posters

nr	Lead Author	Title
1	Mauricia Porraz J.L. (CCC group)	New technologies for tidal power plants: the feasibility of the Mexican project
2	Christelle Auguste (AMC, UTAS)	Investigation of sediment transport processes near tidal stream devices in Australia
3	Gino Parisella (Curtin Uni)	Solution verification of a wave energy device simulation
4	Nazanin Ansarifard (AMC, UTAS)	Performance comparison of the inflow and outflow radial turbines in a twin turbine configuration
5	Tim Pugh (Carnegie Clean Energy)	Wave Energy Site Development – Is it as important as device design?
6	Philip Marsh (AMC, UTAS)	Assessment of tidal current resources in Banks Strait, Australia
7	Mehdi Rezapour (Chabahar Maritime University, Iran)	Sea wave energy in Makoran coastline area, Iran
8	Francois Flocard (UNSW)	Assessment of coastal protection benefits of wave farms using numerical wave and sediment transport modelling
9	Pengfei Liu (AMC, UTAS)	Dual-mode propeller-turbine system for renewable energy
10	Constantin Scherelis (AMC, UTAS)	Biophysical coupling of hydrodynamics and fish distribution at promising tidal energy candidate sites
11	Eric Gubesch (AMC, UTAS)	The concept of a column-stabilised platform for OWC-WEC devices: A hydrodynamic investigation
12	Peter Osman (CSIRO)	Review of currently available devices for tidal energy conversion and storage
13	Jenny Hayward (CSIRO)	Offshore Hydrogen
14	Raju Ahamed (Curtin Uni.)	Design of multi-degree of freedom based electromagnetic oscillator for wave energy convertor
15	Kutaiba Sabah (AMC, UTAS)	Impact of tidal energy on battery size and frequency response for standalone microgrids
16	Larissa Perez (UQ)	On measurements to estimate turbulence for tidal turbines using new generation ADCPs in Banks Strait, Australia
17	Roy Mitchell (OneTide)	High efficiency Ocean Energies deployment mobilisation in a single lunar tide –the reality is here
18	Wei Shen (UNSW)	Assessment of electricity grids in prospective tidal regions
19	Paul Baker (Agile Innovations)	Continuous wave energy capture using a bi-directional radial outflow/crossflow hydro-kinetic electric turbine
20	Trey Taylor (Verdant Power)	The Roosevelt Tidal Energy Project