

## Workshop of Synergistic Hybrid Marine Renewable Energy

21 & 22 July 2022, University of Surrey, 40AA03

### Technical Programme

Day 1: Thursday 21 July 2022

Time	Event
09.30-10.00	Registration + tea/coffee + light breakfast
10.00-10.10	Welcome & House keeping
10.10-10.30	<b>Overview of the UGPN project</b> <u>Liang Cui</u> Department of Civil and Environmental Engineering, UOS, UK
10.30-11.10	<b>Hydrodynamics, Mooring and Power Take-Off Analysis of Hybrid Offshore Wind and Wave Energy Platform</b> <u>Aziz Ahmed</u> , and Tran Nguyen School of Civil, Mining and Environmental Engineering, UOW, Australia
11.10-11.40	<i>Coffee break</i>
11.40-12.20	<b>Green Hydrogen Generation Technology</b> <u>Bahman Amini Horri</u> Department of Chemical and Processing Engineering, UOS, UK
12.20-13.00	<b>Shared Anchoring of Floating Point Absorber Wave Device Utilizing Wind Turbine Monopile</b> <u>Neda Jamaledin</u> , Mo Gabr, and Roy Borden Department of Civil, Construction and Environmental Engineering, NCSU, USA
13.00-14.00	<i>Lunch break</i>
14.00-15.30	Introduction and presentations from potential partners Discussion of potential grant applications
15.30-16.00	<i>Lab tour</i>

Day 2: Friday 22 July 2022

Time	Event
9.00-9.30	Registration + tea/coffee + light breakfast
9.30-10.10	<b>An Overview of Geothermal and Ocean Thermal Energy Conversion Technologies</b> <u>Wanniarachchige Gnamani Pabasara Kumari</u> , Ami Kesawa, Atharva Dighe, and Xuan Nghiem School of Civil, Mining and Environmental Engineering, UOW, Australia
10.10-10.50	<b>Design Challenges of Offshore Wind Turbine Foundations</b> <u>Suby Bhattacharya</u> , Liang Cui, Sadra Amani Department of Civil and Environmental Engineering, UOS, UK
10.50-11.20	<i>Coffee break</i>
11.20-12.00	<b>Synergistic Hybrid Marine Renewable Energy Harvest Systems</b> <u>Sadra Amani</u> , Liang Cui, Suby Bhattacharya, Mo Gabr, Wanniarachchige Gnamani Pabasara Kumari, Aziz Ahmed, Bahman Amini Horri
12.00-12.40	<b>Assessing the Risk of Hurricane Damage to Moorings of Ocean Current Turbines</b> <u>Victor Duraes De Faria</u> , Neda Jamaledin, Anderson Rodrigo de Queiroz, and Mo Gabr Department of Civil, Construction and Environmental Engineering, NCSU, USA
12.40-13.00	Summary and future work
13.00-14.00	
14.00-15.00	Action plans for future collaborations