

## *First* **CALL FOR PAPERS**

# **1<sup>st</sup> Floating Offshore Wind Turbine (FOWT) Comparative Study at ISOPE-2023 Ottawa Conference, Canada, June 19-23, 2023**

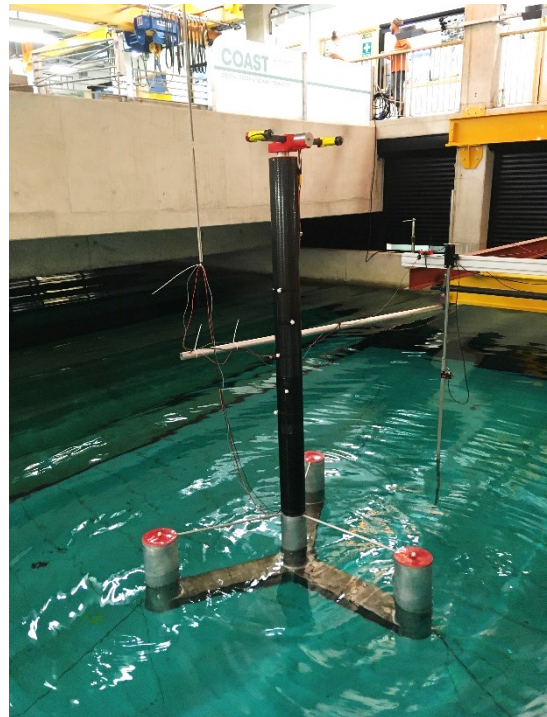
## **Focus session on numerical modelling of the hydrodynamic response of the IEA-15-240-RWT and UMaine VoltturnUS-S**

**Session Organisers:** Ling Qian (Manchester Met. University, UK, [l.qian@mmu.ac.uk](mailto:l.qian@mmu.ac.uk) )

**Co-organisers:** Edward Ransley; Scott Brown; Martyn Hann (U. of Plymouth, UK); Shiqiang Yan (City University, London, UK), Zaibin Lin (University of Aberdeen)

### **Description**

The 1<sup>st</sup> FOWT Comparative Study, in conjunction with ISOPE 2023, considers numerical modelling of a 1:70 scale model of the IEA 15MW reference wind turbine (IEA-15-240-RWT) and UMaine VoltturnUS-S semi-submersible platform. Physical model data, from experiments performed in the COAST Laboratory at the University of Plymouth as part of the EPSRC funded project titled ‘Extreme Loading on FOWT under Complex Environmental Conditions’, are available for comparison with numerical solutions produced by the participants. In the physical case, the aerodynamic loading is emulated using a real-time hybrid testing (RHT) system and so the 1<sup>st</sup> FOWT Comparative Study will concentrate on the hydrodynamic response of the combined IEA-15-240-RWT and VoltturnUS-S system in various conditions. Test cases will include static equilibrium, free-decay and loading scenarios involving focused wave interaction with the system. Selected papers from the Comparative Study will be published in International Journal of Offshore and Polar Engineering.



### **Preliminary Schedule**

1 <sup>st</sup> October 2022	Release of test case description (official start of the comparative study)
20 <sup>th</sup> October 2022	ISOPE abstract deadline
28 <sup>th</sup> February 2023	Deadline for submission of numerical solutions
20 <sup>th</sup> January 2023	ISOPE manuscript (for review) deadline
30 <sup>th</sup> March 2023	Final ISOPE manuscript due
19-23 June 2023	FOWT Comparative Study special session at ISOPE 2023, Ottawa, Canada

### **Expression of interest**

If you are interested in participating in the FOWT Comparative Study, please email your expression of interest (along with your ISOPE 2023 abstract) to Prof Ling Qian at [l.qian@mmu.ac.uk](mailto:l.qian@mmu.ac.uk) before 20<sup>th</sup> October 2022