

## CALL FOR PAPERS

### CCP-WSI Blind Test Series 4 at ISOPE-2023 Ottawa, Canada, June 19-23, 2023

#### Focus session on numerical modelling of focused wave interactions with a submerged flexible membrane (CCP-WSI Blind Test Series 4)

**Session Organiser:** E. Ransley (U. of Plymouth, UK, [Edward.ransley@plymouth.ac.uk](mailto:Edward.ransley@plymouth.ac.uk))

**Co-organisers:** D. Greaves (U. of Plymouth, UK); L. Margetts (U. of Manchester, UK); W. Liu/S. Longshaw (STFC, UK); J. Zang (Bath U., UK)



#### Description

The CCP-WSI Blind Test Series 4 will be run in conjunction with ISOPE 2023 and marks the next instalment in the award-winning series of blind comparative studies organised by the Collaborative Computational Project in Wave Structure Interaction (CCP-WSI) consortium. With the continuing effort to bring together the computational fluid dynamics (CFD) and computational solid mechanics (CSM) communities, the CCP-WSI Blind Test Series 4 test cases consider focused wave interactions with a submerged flexible membrane. The membrane is positioned horizontally in the wave flume and fixed rigidly, below the free-surface, on all four edges. The blind test consists of three cases involving the interaction between the membrane and focused waves with increasing nonlinearity. Participants of the blind test will be given a complete description of the test cases, including the material properties of the membrane, and a series of ‘empty tank’ measurements to calibrate the wave generation in their models but physical measurements, with the membrane in place, will not be released until after the numerical solutions have been submitted. The results from the blind test, including comparison with the physical measurements, will then be presented in a final workshop at the ISOPE 2023 conference.

#### Preliminary Schedule

1 <sup>st</sup> October 2022	Release of test case description (official start of the blind test)
20 <sup>th</sup> October 2022	ISOPE abstract deadline*
20 <sup>th</sup> January 2023	ISOPE manuscript (for review) deadline*

\* contributions to ISOPE 2023 are not mandatory for participation in the CCP-WSI Blind Test Series 4

30<sup>th</sup> March 2023      Final ISOPE manuscript due\*  
30<sup>th</sup> March 2023      Deadline for submission of numerical solutions  
19-23 June 2023      CCP-WSI Blind Test Series 4 special session at ISOPE 2023, Ottawa,  
Canada

**Expression of interest**

If you are interested in participating in the CCP-WSI Blind Test Series 4, please email your expression of interest (along with your ISOPE 2023 abstract\*) to [Edward.ransley@plymouth.ac.uk](mailto:Edward.ransley@plymouth.ac.uk) before 20<sup>th</sup> October 2022