



海岸和近海工程国家重点实验室
STATE KEY LABORATORY OF COASTAL AND OFFSHORE ENGINEERING

海岸和近海工程国家重点实验室 学术讲堂

题目： Fluid-Seabed interactions around monopiles: Experimental and numerical studies

报告人： 郑东生 教授



时间： 2021年06月18日 15:30-16:30

地点： 腾讯会议房间号： 681 7974 9019

内容简介：

Dong-Sheng Jeng is Professor of Offshore Geotechnics in School of Engineering & Built Environment, Griffith University, Gold Coast Campus, Australia. He worked in numerous universities in Australia and UK before he joined Griffith in 2013. His research areas cover: the coastal engineering and offshore geotechnics especially in Fluid-seabed-structure interactions; porous floe; groundwater hydrodynamics; artificial neural networks and offshore wind energy. Recently, he and his research team have devoted more efforts to the development of OpenFOAM for different Engineering and Scientific problems. Professor Jeng has published 3 books, over 350 SCI journal papers, and been included in top 2% researchers in the world in list by Stanford University (2020). He is Editor-in-chief of Soil Dynamics and Earthquake Engineering, Editor of Engineering Application of Artificial Intelligence, Associate Editor for Applied Ocean Research, ASCE Journal of Waterways, Port, Coastal & Ocean Engineering, Editorial Board member for another 6 SCI journals.

Abstract: In this seminar, the recent development for the fluid-induced pore pressures and associated liquefaction around monopiles. This seminar will cover recent wave experiments and numerical study (PORO-FSSI-FOAM). In the numerical model, both flow and seabed models are developed in OpenFOAM (version 6.1), which is more flexible for integration between models. In addition to numerical model, the experiment study for FSSI problem will be discussed in the seminar, including a series of experiments for both regular and irregular waves with currents. Part of experimental data are used to validate the new developed numerical model.

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