



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: **Non-linear wave loading on offshore structures**

报告人: **臧军 教授**

时间: **2021年07月09日 15:30-16:30**

地点: **腾讯会议房间号: 681 7974 9019**



## 内容简介:

Dr. Zang is the Deputy Director of Centre for Infrastructure, Geotechnical and Water Engineering Research (IGWE), and a member of Senate of the University of Bath, UK. Dr. Zang's research concerns the impact of extreme wave loadings on coastal and offshore structures, the development of marine Renewable energy, and the development and applications of the advanced numerical methods for accurate and efficient modelling of wave-structure interactions. She led/participated in several large national and international research projects involving wave-structure interactions. She was the Chair of the PRIMaRE, Partnership of world-class research institutions based in the UK for research in Marine Renewable Energy in the academic year of 2015-2016, an Associate Editor of the International Journal on Offshore Mechanics and Arctic Engineering, and Frontiers in Marine Science, and an editorial board member of several other journals. She chaired the prestigious 30th International Workshop on Water Waves and Floating Bodies in 2015, and a couple of other international conferences on wave hydrodynamics and marine renewable energy.

Abstract: This presentation will give a brief overview of our recent studies on non-linear wave loading on offshore structures with particular focus on monopiles, typical offshore wind turbine foundations. New insights from large scale of experiments will be provided. Particular attention will be paid to the importance of high-order non-linear wave loading on offshore structures, and the newly proposed novel approach for calculating these non-linear wave loading components. The presentation will also discuss and compare the performance of several numerical methods on the same problem ranging from potential flow solver to particle method.

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<http://slcoe.dlut.edu.cn>  
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