



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

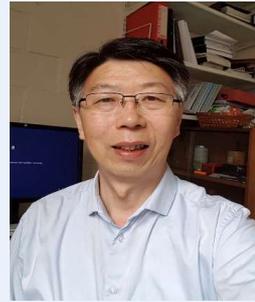
海岸和近海工程国家重点实验室 学术讲堂

题目: **Adapting OpenFOAM for Offshore Renewable Energy Applications**

报告人: **Prof. Ling QIAN**

时间: **2021年11月19日 15:30-16:30**

地点: 腾讯会议房间号: **681 7974 9019**



内容简介:

Ling Qian is Professor of Computational Fluid Dynamics in the Department of Computing and Mathematics at Manchester Metropolitan University and leads the Centre for Mathematical Modelling and Flow Analysis research group. He received a PhD degree in Aerospace Engineering from University of Glasgow in 2001. His research interests are in CFD modelling of fluid structure interaction with applications in offshore, ocean and aerospace engineering. He has over 110 publications in refereed journals and conference proceedings, is a reviewer for over 20 academic journals and a member of the Technical Programme Committee of the International Society of Offshore and Polar Engineers (ISOPE) and Peer Review College of the EPSRC, UK. He was PI on 5 EPSRC grants and Co-I on a Supergen Marine grant on extreme loading on wave energy converters and the CCP-WSI project. He currently leads a large multi-institute project on extreme loading on and survivability of floating offshore wind turbines (FOWTs) under complex environmental conditions, is PI on a Supergen ORE Hub project on passive control of FOWTs and Co-I on CCP-WSI+ project – all funded by EPSRC.

Abstract: In his talk, he will summarise his group's recent work on modelling wave interaction with and extreme loading on offshore renewable energy devices (wave and floating offshore wind) using OpenFOAM. In particular, he will focus on fluid compressibility effects during violent and aerated wave impact on offshore structures and overset meshing techniques for complex wave structure interaction problems.

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