



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： Ocean renewable energy: CFD applications & methods

报告人： Qing XIAO 教授

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内容简介：

Qing XIAO is Reader of Marine Hydrodynamics in the Department of Naval Architecture, Ocean and Marine Engineering (NAOME) at Strathclyde University, United Kingdom. She is leading a Computational Fluid Dynamics & Computational Structural Dynamics research group at NAOME. Her major research interests are computational fluid dynamics with particular interests in bioinspired hydrodynamics, marine renewable energy devices and offshore fluid-structure-interaction problems. Her current research projects are funded by Royal Society, Engineering and Physical Sciences Research Council (EPSRC), Royal Academy Engineering and industry companies in UK, France and USA. Dr Xiao has published over 120 original research papers at peer reviewed journals and conferences. She is a senior Member of the AIAA, a Member of ASME. Dr Xiao is editorial member of Ocean Engineering Journal, associated editor of Journal of Offshore Mechanics and Arctic Engineering (JOMAE), International Towing Tank Committee (ITTC) Ocean Engineering Committee member.

ABSTRACT: In this talk, the research work currently being performed in a CFD research group at NAOME department in the Strathclyde University UK will be introduced. Particular interests will focus on the investigation for offshore renewable energy devices research using a numerical modelling method. Other CFD and Computational Structure Dynamics (CSD) studies in ocean engineering will be described, such as the bio-inspired AUV.

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