



# 海岸和近海工程国家重点实验室 学术讲堂

题目: Ocean-Structure-Seabed Interaction: Combining laboratory experiments and field data to inform design

报告人: Dr. Scott Draper

时间: **2023年11月06日 09:00-10:00**

地点: 海动**A301**会议室 &  
腾讯会议房间号: **775 8184 2394**



## 内容简介:

Scott Draper is an ocean engineer who works within a team of researchers at The University of Western Australia exploring how waves and currents interact with ocean structures, both to improve their design and reliability. He uses field data, experimental modelling and numerical modelling in his research and collaborates widely with industry on applications across the blue economy, including the safe design of conventional and renewable energy infrastructure, subsea power cables, artificial reefs, and coastal infrastructure. He has published over 150 peer-reviewed papers.

Abstract: Field data is becoming increasingly accessible due to both the continued development of new offshore infrastructure and improvements in technology which are enabling cheaper, high-quality sensing. In this talk we will share some examples of the type of field data that is available for offshore structures placed on mobile seabeds, and how this data can be interpreted through carefully designed laboratory experiments to reveal new insight and motivate new engineering models. Examples will include scour around (and under) subsea structures and pipelines/cables.