Prof. Qing Xiao

Dr. Qing Xiao is Professor 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. Professor Xiao has published over 140 original research papers at peer reviewed journals. She is a senior Member of the AIAA, a Member of ASME. Professor 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.

Keynote Presentation 8:
Unraveling the fluid-structure-interaction mystery of fish swimming

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. We will focus our investigation on using numerical modelling methods to tackle the challenges around the understanding of fish swimming for bio-inspired aquatic locomotion systems. Other CFD and Computational Structure Dynamics (CSD) studies in ocean renewable energy will be described briefly.