

Organiser :



Co-Organisers :



Seminar Jointly Organised by

Hong Kong Institute of Qualified Environmental Professionals,

Hong Kong Institute of Acoustics,
and

Department of Mechanical Engineering - Hong Kong Polytechnic University

“UNDERWATER ACOUSTIC AND THE APPLICATION OF THE HYDROPHONE TO ASSESS THE IMPACT TO MARINE MAMMALS”

Date, Time, Venue & Fee

Date : 29 Oct 2018

Time : 6:30pm - 8:00pm, registration starts at 6:00pm (1.5 CPD Hours)

Venue : Room PQ303, 3/F, Mong Man Wai Building (PQ), Poly U, Hung Hom, Kowloon, Hong Kong

Fee : Free of charge for members of HKIQEP/HKIOA/PolyU ME, \$100 for non-members

Speakers

Mr Pierre Almeida

Pierre is the International Sales Manager of Ocean Sonics. He graduated with an Advanced Diploma in International Business from NSCC and attended Dalhousie for Computer Science. Pierre has worked for Ocean Sonics for over four years and has involved in many hydrophone array and ship noise monitoring projects worldwide.

Dr Tik Sun

Dr Tik Sun is the managing director of Integrate System Ltd. He has obtained his PhD degree in Materials Science in 2009. He has led many research development projects including ultrasound scanning systems, pass-by noise measurement system, and components for telemetry products. He is at present providing hydrophone product and relevant consultancy services for several hydrophone monitoring projects in mainland China for institutions and Universities.

Seminar Highlights

Ocean occupies 70% of earth and is the largest ecosystem where living organisms inhabits. As electromagnetic wave cannot propagate through water due to water's high permittivity and conductivity, sound become the major means for communication in ocean. Marine mammals have evolved to capitalize on the efficiency with which sound energy travels through water. Anthropogenic and natural sound sources contribute to ocean ambient noise, which can interfere with the use of this sensory modality by marine animals. Anthropogenic noise sources have been increasing steadily over recent decades largely due to coastal population growth, increased global transportation, and offshore industrialization. Understanding the potential impacts of anthropogenic noise requires the establishment of ambient acoustic baselines and documentation of individual marine mammals' response to various kind of noise. Further, strategies of protection against harmful anthropogenic noise to marine mammals need to be developed. In this presentation, technologies to establish the ambient acoustic baselines and measures to protect marine mammals against anthropogenic noise will be explored.