

POST 723

Wednesday, Nov 29
2:30 – 3:00 pm Coffee
3:00 - 4:00 pm Seminar

**Understanding the Oceans, Sustaining the Future
Qingdao National Laboratory for Marine Science and Technology (QNLN)**

Dr. Huihui Sun
QNLN

QNLN is the only National Laboratory in marine science and technology in China. It was put into operation on 30 Oct. 2015 with a big support from the government. Aiming at a world-class comprehensive research center of marine science and technology as well as an open platform for collaborative innovation, QNLN brings together resources and professional teams from home and abroad to carry out the fundamental research and cutting-edge technology for making a better understanding of the Oceans and our future sustainable.

**Research and Development of Marine observation equipment
Joint Laboratory for Ocean and Detection**

Prof. Guojun Wu
Xi'an Institute of Optics and Precision Mechanics

Joint Laboratory for Ocean Observation and Detection (Xi'an Institute of Optics and Precision Mechanics) is under joint construction of Xi'an Institute of Optics and Precision Mechanics Chinese Academy of Sciences and QNLN. The Joint Laboratory builds a multidisciplinary and innovative platform, aims at the frontier of marine optics and engineering problems, conducts technical research and equipment development including underwater imaging, target detecting, underwater sensing to solve the problems of optical information acquisition, transmission and processing in complex marine environment, and provides hardware support for achieving "Transparent Ocean" goal.

Prof. Yanhui Wang
Tianjin University

Joint Laboratory for Ocean Observation and Detection (Tianjin University) is based on the strategic objectives of the QNLN, taking the research and development of key technology about marine observation equipment as the breakthrough point. This laboratory focuses on three main areas: the ocean mobile observation platform, optical fiber sensor, and communication network. Relying on the open collaborative innovation platform resources of the QNLN, we would expect to achieve multi-disciplinary integration and complementary technology, accelerate the construction of the equipment support service system about 'Transparent Ocean and Climate', finally, and enhance the technology in the area of marine engineering equipment research.

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