

Effort on Developing Cabled Ocean Observatories in China

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Wednesday, April 23

3:00-3:30 pm Coffee Hour

3:30-4:30 pm Seminar

Abstract

Cabled ocean observatory that enables abundant power and broad bandwidth communication has attracted many scientists during the last decade. In order to build cabled ocean observatories to support ocean scientific research in China, Zhejiang University has been developing the relative technologies since 2005 under the support of National High-Tech Research Program of China. Efforts were made on solving the key issues and techniques including power transmission and distribution, high bandwidth communication and precise timing, as well as some other issues like fault isolation, heat dissipation. Serial tests and experiments were carried out in lab, coastal and deep sea to validate the studied technologies and methods, prior to building the practical long-term cabled observatory in South China Sea. In this seminar the author is going to review the applied technologies, the prototypes and the corresponding experiments.

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Please join us for the coffee hour at the seminar venue a half hour before the seminar, 3:00 – 3:30 pm