

Training Course on Science and Technology for Coastal Ecological Aquaculture and Biotechnology

Date: Apr. 23rd- May 7th, 2023

Location: Qingdao, China

Aims: The Yantai Institute of Coastal Zone Research, Chinese Academy of Sciences (YIC-CAS), aims to cultivate excellence in science, technology, management, and industry for coastal countries.

Organizer: Yantai Institute of Coastal Zone Research, Chinese Academy of Sciences (YIC-CAS)

International trainees:

1. Scientists, engineers, and college teachers
2. Entrepreneurs and officials (master's degree or above)
3. Master's, doctoral students, and postdoctoral researchers

Program Description:

The training course, with the theme of "Environment-Friendly and Sustainable Mariculture and Coastal Bioprocessing Technology," aims to provide a comprehensive introduction to meet the developmental needs of mariculture and the coastal bio-industry in coastal countries.

Draft Program:

1. Mariculture

- 1.1 The Development Process of Mariculture in China and its Impacts on Environmental and Human Health
- 1.2 The North-South Relay Mode of Mariculture
- 1.3 Seaweed Cultivation and its Influence on the Coastal Zone Industry
- 1.4 The Mariculture Pattern and Development Trends of *Penaeus vannamei*
- 1.5 Bottom Sowing Proliferation Technology and its Applications
- 1.6 The Application of Deep-water Cages in Marine Fish Culture
- 1.7 Island Ecological Aquaculture: A Case Study of Hainan Island

2. Marine Ranching

- 2.1 From Marine Farming to Marine Ranching: 50 Years of Aquaculture in China
- 2.2 Integrated Multi-Trophic Aquaculture (IMTA) Mode in Marine Ranching
- 2.3 Online Monitoring and Visualization Technology in Marine Ranching
- 2.4 Proliferation, Release, and Construction of Marine Ranching
- 2.5 Island Marine Ranching: Case Studies of Changdao Island and Wuzhizhou Island

3. Coastal Bioprocessing Technology

- 3.1 Application of Fishing-Solar Complementary Technology in Mariculture
- 3.2 Economic Microalgae in Mariculture
- 3.3 Microalgal Gene Engineering and its Application in Aquatic Feeds
- 3.4 Development of *Jerusalem artichoke* Processing Technology and Dietary Fiber Industry
- 3.5 PCB and Its Utilization in Anti-Pulmonary Fibrosis
- 3.6 Agricultural Applications of Seaweed Products

Application Process:

Interested applicants are invited to send their application form to yjshi@yic.ac.cn by **March 9th, 2023**. The selection result will be informed on March 15th, 2023.

Contact Information:

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Note: YIC-CAS will cover the international travel expenses (economy class tickets with a total cost of up to 6000 RMB) and provide accommodation during the training course for selected participants.