

## Training Course on Fish Seed Production and Feed Development for Developing Countries

Name	Training Course on Fish Seed Production and Feed Development for Developing Countries		
Organizer	Freshwater Fisheries Research Center of Chinese Academy of Fishery Sciences		
Time	2024-10-24 -- 2024-11-13	Language for Learning	English
Invited Countries	Developing Countries		
Number of Participants	25		
Requirements for the Participants	Age	Under 45 years old	
	Health	<p>Participants shall provide clean bills of health or medical examination reports issued by local public hospitals.</p> <p>Personnel with the following conditions shall not participate in the Seminar:</p> <ol style="list-style-type: none"> <li>1.have diseases prohibited from entry according to China's laws and regulations;</li> <li>2.have severe chronic diseases such as serious high blood pressure, cardiovascular and cerebrovascular diseases and diabetes;</li> <li>3.have mental illnesses or infectious diseases that may pose serious threats to public health;</li> <li>4.be in the recovery period after a major operation or the period of acute disease attacks;</li> <li>5.have severe physical disability;</li> <li>6.be in pregnancy.</li> </ol>	
	Language	Capable of listening, speaking, reading and writing in English	
	others	Family members or friends shall not follow	
Host City	Wuxi City of Jiangsu Province	Local Temperature	10-18°C
Cities to visit	Wuhan City, Jingzhou City and Shishou City of Hubei Province;Huzhou City of Zhejiang Province	Local Temperature	Wuhan City10-18°C Jingzhou City10-18°C Shishou City10-18°C Huzhou City10-18°C
Notes	<p>1. Visa: Please confirm that the validity period of the visa covers the period from 5 days before the start of the project to 5 days after the end of the project.</p> <p>2. Preparation before travel: ① Local weather conditions shall be considered when preparing your luggage. ② A small amount of commonly used drugs shall be considered according to personal situation. It is strictly prohibited to carry drugs that are prohibited or exceed the limit into the country.</p> <p>③ Please communicate with the organizer in advance if you have any questions or needs about religious belief.</p> <p>3. Baggage requirements: ① Please pay attention to the standard of allowed baggage for international and domestic flights. The expenses incurred due to overweight baggage and the responsibility for flight delay caused by baggage disputes shall be borne by the individual.</p> <p>② During transfer, please confirm whether the baggage should be picked up and rechecked.</p> <p>③ In case of luggage lost, please call the organizer to confirm the delivery address before registering with the airline.</p>		

	<p>4. Misarrival and pickup arrangements: ① In case of any itinerary change due to unexpected facts, please inform the ECC office and organizer in time. ② Please wait patiently at the international (or domestic) arrival exit after the flight lands to pick up the baggage, and the FFRC staff will pick up the flight with the pick-up card with the name of the organizer. In case of any abnormality, please contact the contact person of the organizer in time.</p> <p>5. Refund and change of flights: change the flights without permission or refund and change of flights due to personal reasons, participants have to be responsible for expenses and liabilities on their own.</p>	
Contact of the Organizer	Contact Person(s)	Mr You Lei, Mr.Ye Wei
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About the Organizer	<p>Freshwater Fisheries Research Center of Chinese Academy of Fishery Sciences (FFRC) was established in 1978. It is a comprehensive institution for fisheries research and development, combining together scientific research, teaching and training, technology transfer and information exchanges within the National Agricultural Sci-tech Renovation System. It has 8 research divisions, 5 technical practice bases and 13 technological innovative platforms such as 2 international joint laboratories; Designated Institution for Clinical Test on Fishery Medicines, MARA; Institution for Effectiveness Testing of Feed and Feed Addictive, MARA; Genetic &amp; Breeding Center for Tilapia, MARA, etc.. It is the leading institute for the Key Laboratory of Fisheries and Germplasm Resources Utilization, and the National Technology Innovation Systems for Conventional Freshwater Fishes (CARS-46) and for Tilapia (CARS-49) of the Ministry of Agriculture. FFRC has 197 staff members, of which there are 62 professors, 15 PhD advisors and 52 MSc advisors in aquaculture sciences. Since its establishment, FFRC has been awarded with 11 national level prizes, over 80 provincial or ministerial level prizes and has acquired over 320 authorized patents of invention.</p> <p>In 2014, FFRC was authorized as FAO Reference Centre for aquaculture and fishery research and training. In 2018, the Agriculture Minister Han Changfu and Director-General of FAO jointly issued the “China-FAO Special Contribution Agency for South-South Cooperation Reward” to FFRC. In 2021, FFRC was authorized as “China-Africa Joint Center for Modern Agricultural Technology Exchange, Demonstration and Training”. As an important component of FFRC, the Asian-Pacific Regional Research and Training Centre for Integrated Fish Farming (IFFC) has been consecutively conducting over 230 international training courses and seminars in fishery and aquaculture since 1981. These training programs covered a wide topics, such as fishery economy and information, integrated fish farming, pond fish farming, land-based aquaculture, industrialized aquaculture, technical extension, fish seed production, fish feed development, fishery environment and climate change, plan and policy for fishery development, processing technology of aquatic products, quality and safety of aquatic products, value-added fishery products development, healthy management and quarantine of aquatic animals, etc.. Up to now, over 8380 senior fisheries technical and managerial personnel from over 134 countries and regions have been trained. In 2011, it was certified with the ISO9001 Quality Management System Certificate in education and training. Meanwhile, the MSc and PhD programs were initiated in 2011 and currently 70 oversea students are studying at FFRC.</p>	

Training  
Content

### **1. Main content introduction**

(1) Overview of China's national status: mainly introducing the development status of China's politics, economy, society, culture, etc. and achievements in the past 70 years since the founding of PRC and 40 years since reform and opening up;

(2) "Belt and Road" master plan and case introduction: mainly introduces the background, co-construction principles, framework ideas, basic connotation and development history of the "Belt and Road" initiative;;

(3) **Module 1**—Fish seed production:

——The development of fine seed industry, mainly introduces the development history and successful case analysis of China's fine seed industry, relevant government policy support and system construction experience.

——Seed production technology, mainly introduces the artificial breeding technology of fish, the hatching technology of fish seed, the breeding technology of fine seed, the cultivation technology of fry and the cultivation of the commercial-sized seed, etc.

——Seed production knowledge and application, mainly introduces the storage and transportation of fish seedlings, seed stocking and seed quality management that should be paid attention to in the production process, the collection, identification and cultivation of natural food organisms, and the process of cultivating them into commercial-sized seedlings, etc. .

(4)**Module 2**—Fish feed development:

——The development of feed development industry, mainly introduces the development status, main achievements and relevant case analysis of feed development technology in China.

——The feed development technology, mainly introduces the source and identification of feed ingredients, the principle of feed formula, the feed preparation of small-scale aquaculture, the processing, treatment and storage technology of aquatic feed, etc.

——Large-scale feed development and management, mainly introduces feed quality management and evaluation, feed machinery and small-scale feed factory production and management, precise feeding technology, etc.

(5)**Module 3**—Fishery industry development:

——China's fishery industry development and policies, mainly introducing the construction and development of cooperatives with leading enterprises as the core and various specialized cooperative organizations, as well as relevant government support and guarantee policies.

——Aquatic product quality & safety control, mainly introducing China's aquatic product safety and quality control technology and management system.

——Fishery product marketing management, mainly introducing the fishery product marketing strategy and the construction of the circulation system.

### **2. Introduction to Visit**

(1) It is planned to arrange participants to visit fine seed farms and artificial breeding bases, etc., and conduct investigation and exchange on fish breeding and farming;

(2) It is planned to arrange for participants to visit mature domestic aquatic feed processing and development enterprises, and conduct study tours on the production and management of large-scale feed factories, business models and technology applications.

### **3. Materials to be prepared by the participants**

In order to facilitate communication with Chinese experts, please prepare the materials related to training topics, such as: ①The development status and existing problems in the field of fish seed production and feed processing and development; ②The future cooperation foundation and direction with fish seed industry.