

The Third Conference on Agricultural Ecosystem Services

Date: Tuesday, November 28, 2023

Venue: Taiwan Agricultural Research Institute, Ministry of Agriculture, Taichung, Taiwan
(農業部農業試驗所，台中)

1. Background:

Agriculture land has faced critical environmental pressures, including climate change, food security and land-use changes. Croplands and soils provide essential ecosystem services such as crop provision, carbon storage, water retention, and nutrient retention. However, estimating agricultural ecosystem services presents various challenges. The economic decision-making system needs to consider the values of agricultural ecosystem services better, resulting in significant challenges in protecting agricultural resources. To promote the value of agricultural ecosystem services and agricultural payment promotion policies to accelerate the development of sustainable agriculture, comprehensively improve agricultural productivity and improve agricultural issues, this Conference aims to exchange the up-to-date information regarding policies, action plans, and demonstration projects on agricultural ecosystem service.

2. Conference Themes:

A broad range of topics will be covered in the Conference, which are divided into the following themes: (1) climate change and carbon neutrality, (2) policies and practices for sustainable soil management, and (3) land use, ecosystem services and management strategy.

3. Advisory Organization:

- Ministry of Agriculture, Taiwan ROC

4. Hosted Organization:

- Taiwan Agricultural Research Institute, Ministry of Agriculture, Taiwan ROC

5. Co-Hosted Organizations:

- College of Bioresources and Agriculture, National Taiwan University, Taiwan ROC
- Net-Zero Carbon Technology and Management Innovation Research Center, National Taiwan University, Taiwan ROC

6. Organizing Committees:

- Tsang-Sen Liu (TARI, Taiwan ROC)
- Horng-Yuh Guo (TARI, Taiwan ROC)
- Yi-Ting Zhang (TARI, Taiwan ROC)

- Yu-Pin Lin (NTU, Taiwan ROC)
- Shu-Yuan Pan (NTU, Taiwan ROC)
- Kuan-Ting Lin (NTU, Taiwan ROC)
- Mei-Hua Yuan (Sinica Academia, Taiwan ROC)

7. Program:

Time	Speaker
09:00~09:30	Registration
09:30~09:45	<p align="center">Opening Ceremony</p> <p>Dr. Hsueh-Shih Lin (Director General, Taiwan Agricultural Research Institute Ministry of Agriculture, Ministry of Agriculture)</p> <p>Professor Yu-Pin Lin (Dean, College of Bioresources and Agriculture, National Taiwan University)</p>
09:45~09:50	Group Photo
Session I: Climate Change and Carbon Neutrality	
Moderator: Dr. Hsueh-Shih Lin	
09:50~10:25	<p><Keynote Speech> Internalization Pathway of Agriculture & Forestry Service for Carbon Neutrality Professor Woo-Kyun Lee (Division of Environmental Science and Ecological Engineering, Korea University, Korea)</p>
10:25~10:50	Coffee Break
10:50~11:25	<p><Keynote Speech> Healthy Ecosystem Services for Addressing Climate Change and Carbon Neutrality Professor Yu-Pin Lin (Dean, College of Bioresources and Agriculture, National Taiwan University)</p>
11:25~12:00	<p><Keynote Speech> Status and Trends of Japan's Ecosystem Services Professor Shizuka Hashimoto (Graduate School of Agricultural and Life Sciences Department of Ecosystem Studies, The University of Tokyo, Japan)</p>
12:00~13:30	Lunch

Time	Speaker
Session II: Policies and Practices for Sustainable Soil Management Moderator: Dr. Mei-Hua Yuan	
13:30~14:05	<Keynote Speech> Agricultural Policies for Ecosystem Service Towards Carbon Neutrality Professor Seth W Snyder (Northwestern University; Idaho National Laboratory, USA)
14:05~14:30	Soil Quality and Agroecosystem Services in Subtropical Slope Lands Under Different Agricultural Management Practices Professor Shih-Hao Jien (National Ping-Tung University of Science & Technology, Taiwan)
14:30~14:55	Valuation of Cropland Ecosystem Services towards Sustainable Soil Management: Framework, Methodology and Case Study in Taiwan Professor Shu-Yuan Pan (Department of Bioenvironmental Systems Engineering, National Taiwan University)
14:55~15:10	Coffee Break
Session III: Land Use, Ecosystem Services and Management Strategy Moderator: Dr. Tsang-Sen Liu	
15:10~15:35	Assessment of the Impacts of Agricultural and Climate Change Scenarios on Watershed Responses Professor Li-Chi Chiang (College of Bioresources and Agriculture, National Taiwan University)
15:35~16:00	Nature-based Solutions: A New Viewpoint of Sustainable Development and Harmonious Coexistence between Human and Nature Professor Chi-Chang Liu (College of Bioresources and Agriculture, National Taiwan University)
16:00~16:10	Concluding Remarks