

# Symposium Program

## Symposium

**December 12 (Tuesday) 9:40 – 17:00**

Opening Session		
	09:40 - 10:00	<b>Welcoming Remarks</b> Yohei Sato, President, NIAES, Japan Toshikazu Ijichi, Research Councillor, Agriculture, Forestry and Fisheries Research Council Secretariat, MAFF, Japan
Symposium		
S-1	10:00 - 10:30	<b>Agro-Environmental Research and Consortium in Monsoon Asia</b> Yohei Sato, President, NIAES, Japan
S-2	10:30 - 11:20	<b>Environment and Sustainable Agriculture in Monsoon Asia</b> Koji Tanaka, Director, Center for Integrated Area Studies, Kyoto University, Japan
S-3	11:20 - 12:10	<b>Rice Research for Poverty Alleviation and Environmental Sustainability in Asia</b> Robert S. Zeigler, Director General, IRRI, Philippines
	12:10 - 13:30	<b>Lunch</b>
S-4	13:30 - 14:20	<b>Rice Production in Southeast Asia for Sustainable Agriculture and Environment</b> <b>-International Collaboration for Rice Technology Development-</b> Shu Fukai, University of Queensland, Australia
S-5	14:20 - 15:10	<b>Impact of Nitrogen Cycling on Global Warming in Agro-Ecosystems of East Asia</b> Ryusuke Hatano, Hokkaido University, Japan
	15:10 - 15:30	<b>Coffee Break</b>
S-6	15:30 - 16:20	<b>Effect of Global Warming on Invasion of Alien Plants in Asia</b> Kathir RM. Kathiresan, Annamalai University, India
	16:20 - 16:50	<b>Open Discussion</b>
	16:50 - 17:00	<b>Closing Remarks</b> Masako Ueji, Vice-President, NIAES, Japan

**December 14 (Thursday) 15:30 – 17:00**

Symposium		
	15:30 - 17:00	<b>General Discussion</b>

# Workshop Program

## Workshop 1

### *Invasive Alien Plants in Asia, Status & Control*

**December 13 (Tuesday) 9:00 – 17:00**

Workshop		
W1-1	09:00 - 09:30	<b>International Research Network on Invasive Alien Plant Species</b> Yoshiharu Fujii, NIAES, Japan
W1-2	09:30 - 10:00	<b>Invasive Alien Species and Their Management Strategies in Insular South Asia</b> Buddhi Marambe, University of Peradeniya, Sri Lanka
W1-3	10:00 - 10:30	<b>Invasive Alien Plant in Tropical Asia, Case Study in Thailand</b> Siriporn Zungsontiporn, Department of Agriculture, Thailand
	10:30 - 11:00	<b>Coffee Break</b>
W1-4	11:00 - 11:30	<b>Response of Exotic Invasive Weed <i>Alternanthera philoxeroides</i> to Environmental Factors</b> Liuqing Yu, China National Rice Research Institute, China
W1-5	11:30 - 12:00	<b>Invasive Aquatic Plants in Japan</b> Yoko Oki, Okayama University, Japan
	12:00 - 13:00	<b>Lunch</b>
W1-6	13:00 – 13:30	<b>Soil Environmental Factors Affecting Growth of Invasive Alien Plants</b> Syuntaro Hiradate, NIAES, Japan
W1-7	13:30 - 14:00	<b>Does Biodiversity in Japan Protect New Invasion ?</b> Hiroaki Ikeda, NIAES, Japan
W1-8	14:00 - 14:30	<b>Impacts of Invasive Alien Species on Native Biodiversity: A Case Study on the Impacts of the Exotic Weed <i>Mimosa pigra</i> on the Eastern Sarus Crane (<i>Grus antigone sharpii</i>) in Tram Chim National Park, Dong Thap Province, Vietnam</b> Tran Triet, Vietnam National University, Vietnam
W1-9	14:30 – 15:00	<b>Identification of Invasive Genotypes in <i>Lolium multiflorum</i></b> Kentaro Ikeda, NARO, Japan
	15:00 - 15:30	<b>Coffee Break</b>
W1-10	15:30 - 16:00	<b>Towards a Weed Risk Assessment Model for Japan</b> Tomoko Nishida, NIAES, Japan
	16:00 - 17:00	<b>General Discussion</b> Chairpersons : Shunji Kurokawa, Syuntaro Hiradate, Yoshiharu Fujii Commentator : John A. Silander, University of Connecticut, USA Tetsukazu Yahara, Kyushu University, Japan

## Workshop 2

### *Monsoon Asia Agricultural Greenhouse Gas Emission Studies*

**December 13 (Wednesday) 9:00 - 17:30**

<b>Opening Session</b>		
W2-1	09:00 - 09:30	<b>Background and Objectives of the Workshop</b> Kazuyuki Yagi, NIAES Japan
W2-2	09:30 - 09:50	<b>Research Activities on Greenhouse Gas Emissions from Agricultural Fields in Japan</b> Kazuyuki Inubushi, Chiba University, Japan / Kazuyuki Yagi, NIAES, Japan
W2-3	09:50 - 10:10	<b>Research Activities on GHG Emissions from Agriculture in China</b> Zucong Cai, Institute of Soil Science, Chinese Academy of Sciences, China
W2-4	10:10 - 10:30	<b>Greenhouse Gases Emission Studies in Indonesia</b> Iswandi Anas, Bogor Agricultural University, Indonesia
W2-5	10:30 - 10:50	<b>Greenhouse Gas Study in Thailand Agricultural Sector: Research Progresses and Future Needs</b> Amnat Chidthaisong, King Monkut's University, Thailand
W2-6	10:50 - 11:10	<b>Report of the Research Activities in India</b> Chhemendra Sharma, National Physical Laboratory, India
W2-7	11:10 - 11:30	<b>Greenhouse Gas Emissions from Rice Fields: What do we know and where should we head for?</b> Reiner Wassmann, IRRI, Philippines
W2-8	11:30 - 12:00	<b>Greenhouse Gas Emissions Caused from Animal Production in Japan</b> Takashi Osada, NARO, Japan
	12:00 - 13:30	<b>Lunch</b>
<b>Discussion on the Research Plan</b>		
	13:30 - 15:00	<b>Plenary discussion</b> <ul style="list-style-type: none"> <li>• Work plans</li> <li>• Structure of the Research Plan</li> <li>• Break-out group assignment (supposed break-out groups: Soil monitoring, Soil modeling, Animals, Implementation strategies)</li> </ul>
	15:00 - 15:30	<b>Coffee Break</b>
	15:30 - 17:30	<b>Break-out group discussion</b>

**December 14 (Thursday) 9:00 - 15:00**

<b>Discussion on the Research Plan (continued)</b>		
	09:00 - 12:00	<b>Break-out group discussion</b>
	12:00 - 13:30	<b>Lunch</b>
	13:30 - 15:00	<b>Plenary discussion</b> <ul style="list-style-type: none"> <li>• Reports from each break-out group</li> <li>• Discussion about the Research Plan</li> <li>• Future plans</li> <li>• Wrap up</li> </ul>

## *Workshop 3*

### *Prediction of Rice Production Variation in East and Southeast Asia under Global Warming*

**December 13 (Wednesday) 9:00 – 17:00**

<b>Opening Session</b>		
W3-0	09:00 - 09:30	<b>Background and Objectives of the Workshop</b> Hitoshi Toritani, NIAES, Japan
<b>Session 1: Monitoring and prediction of the change in agro-environment</b>		
W3-1	09:30 - 09:55	<b>Current Estimation and Future Projection of Climate Extremes and Unusual Weathers over the Asian Region simulated by a Regional Climate Model</b> Motoki Nishimori, NIAES, Japan
W3-2	09:55 - 10:20	<b>Developing High-resolution Climate Scenarios in China</b> Yinlong Xu, Chinese Academy of Agricultural Sciences, China
	10:20 - 10:45	<b>Coffee Break</b>
W3-3	10:45 - 11:10	<b>Assessment of Temporal-Spatial Distribution of Agro-Water Resources in East Eurasia</b> Yasushi Ishigooka, NIAES, Japan
W3-4	11:10 - 11:35	<b>Water Resources Management in the Mekong Basin: Modeling and Evaluation of Floods, Droughts and Salinity Intrusion</b> To Quang Toan, Southern Institute for Water Resources Research, Vietnam
W3-5	11:35 - 12:00	<b>Agro-Environmental and Farmers' Management Strategies in Northeast Thailand</b> Anan Polthanee, Khon Kaen University, Thailand
	12:00 - 12:30	<b>Discussion</b>
	12:30 - 14:00	<b>Lunch</b>
<b>Session 2: Response to the change in agro-environment</b>		
W3-6	14:00 - 14:25	<b>Recent Trends in Cool Weather Damage to Rice</b> Eiji Kanda, NARO, Japan
W3-7	14:25 - 14:50	<b>Effect of High Temperature on Yield and Grain Quality in Rice</b> Motohiko Kondo, NARO, Japan
W3-8	14:50 - 15:15	<b>Cultivar and Management of Aerobics Rice under Agro-ecosystem in the Northeastern Thailand</b> Pisarn Konghakote, Khon Kaen, Rice Research Center, Thailand
	15:15 - 15:35	<b>Coffee Break</b>
W3-9	15:35 - 16:00	<b>Prediction of Impacts of Elevated CO<sub>2</sub> Concentration</b> Hidemitsu Sakai, NIAES, Japan
W3-10	16:00 - 16:25	<b>Yield and Quality Responses of Rice to Free-air CO<sub>2</sub> Enrichment (FACE) and Nitrogen Supply</b> Yang Lianxin, Yangzhou University, China
	16:25 - 17:00	<b>Discussion</b>

**December 14 (Thursday) 9:30 – 15:00**

<b>Session 3 : Modelling and prediction of the change in agro-environment</b>		
W3-11	09:30 - 09:55	<b>Detection of Cropland and Crop Phenology by Frequently Observing Satellite Data</b> Hiroyuki Ohno, NIAES, Japan
W3-12	09:55 - 10:20	<b>Analysis of 50-Year Dynamics of Insect Pest Populations for Predicting Their Abundance under Global Warming</b> Kohji Yamamura, NIAES, Japan
	10:20 - 10:40	<b>Coffee Break</b>
W3-13	10:40 - 11:05	<b>Potential Effect of Climate Change on Rice Production in Eastern Asia</b> Katsuo Okamoto, NIAES, Japan
W3-14	11:05 - 11:30	<b>Impacts of Global Warming on Agricultural Product Market: World Food Model Analysis Using HadCM3 Scenario A2</b> Jun Furuya, JIRCAS, Japan
	11:30 - 12:00	<b>Discussion</b>
	12:00 - 13:30	<b>Lunch</b>
<b>Session 4 : Framework of “international cooperation” applied in the research on rice production variation of East and South-eastern Asia</b>		
	13:30 - 13:40	<b>1. Session address</b> Hitoshi Toritani, NIAES, Japan
	13:40 - 14:30	<b>2. Reports from participating organizations in the project</b>
	14:30 - 15:00	<b>3. General Discussion</b> Commentator: Kazuhiko Kobayashi, The University of Tokyo, Japan

## Workshop 4

### *Ecological Risk Assessment for the Gene Flow from the Genetically Modified Crops*

**December 14 (Thursday) 9:00 - 15:00**

Workshop		
W4-0	09:00 - 09:10	<b>Background and objectives of the workshop: Ecological Risk Assessment for the Gene Flow from the Genetically Modified Crops</b> Kazuhito Matsuo, NIAES, Japan
W4-P1	09:10 - 09:50	<b>Keynote lecture: Perspectives of GM Farming in Asia</b> Bao-Rong Lu, Fudan University, China
		<b>Invited presentation - Pollen flow and hybridization in rice. -</b>
W4-1	09:50 - 10:20	<b>Current Situation of Development of GM Rice</b> Gerard F. Barry, IRRI, Philippines
W4-2	10:20 - 10:45	<b>Pollen Flow and Spontaneous Hybridization in Rice — Application of Phenotypic Detection in Hybridization</b> Takashi Endo, NARCT, Japan
W4-3	10:45 - 11:10	<b>Modelling and Simulation of Pollen Dispersal and Hybridization Processes</b> Shigeto Kawashima, NIAES, Japan
	11:10 - 11:40	<b>Coffee Break</b>
		<b>- The effect on biodiversity by the cultivation of GM soybean in Asia -</b>
W4-4	11:40 - 12:10	<b>Genetic Diversity and GM Soybean in Korea</b> Myoung-Rae Cho, RDA, Korea
W4-5	12:10 - 12:35	<b>Gene Flow from GM Sybean to Non-GM Soybean and Wild Soybean under Field Conditions</b> Yasuyuki Yoshimura, NIAES, Japan
	12:35 - 13:35	<b>Lunch</b>
W4-6	13:35 - 14:00	<b>Gene Dispersal from Soybean to Wild Soybean Growing in Their Natural Habitat in Japan</b> Akihito Kaga, NIAS, Japan
	14:00 - 15:00	<b>General discussion</b>