

Scientific Program of the 12th ICERD ONLINE

ISERD / Research Center of ERECON Institute

Opening Ceremony

Moderators *Ms. Keiko Aoki and Prof. Dr. Machito MIHARA*

Zoom Access

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Japan Standard Time

9:00-10:00

Opening Remarks

9:00-9:10

Professor Dr. Mario T. TABUCANON

ISERD President, Professor Emeritus at Asian Institute of Technology, and Senior Visiting Professor at the United Nations University Institute for the Advanced Study of Sustainability

Message from ISERD Councilors

9:10-9:20

Professor Dr. Machito MIHARA

ISERD Executive Secretary, Professor at Tokyo University of Agriculture, and President at Institute of Environmental Rehabilitation and Conservation, Japan

Introduction from ISERD Awards Committee

9:20-9:25

Professor Dr. Eiji YAMAJI (for Excellent Paper Award)

ISERD Deputy President, Professor Emeritus at the University of Tokyo, and General Director at Institute of Environmental Rehabilitation and Conservation, Japan

9:25-9:30

Professor Dr. Regucivilla A. POBAR (for Poster Presentation Award)

ISERD Regional Vice President (the Philippines), University President at Bohol Island State University, the Philippines

9:30-9:35

Professor Dr. Barry N. NOLLER (for Award of Sustainability Promotion)

ISERD Regional Vice President (Australia), Principal Research Fellow and Group Leader at Sustainable Minerals Institute, The University of Queensland, Australia

9:35-9:40

Professor Dr. Anan POLTHANEE (for Award of Outstanding Scientific Achievements)

ISERD Deputy President, Khon Kaen University, Thailand

Keynote Presentation

9:40-10:00

Professor Dr. Eiji YAMAJI

ISERD Deputy President, Professor Emeritus at the University of Tokyo, and General Director at Institute of Environmental Rehabilitation and Conservation, Japan

Scientific Session

10:30-16:00

Poster Presentations

All posters are exhibited in ISERD Website www.iserd.net. Please visit "Poster Presentation" located in "Conference" in the website.

10:30-16:00

10:30-12:00 **Session 1 Oral presentations**

Please see following pages for Oral Presentation Program

12:30-14:00 **Session 2 Oral presentations**

Please see following pages for Oral Presentation Program

14:30-16:00 **Session 3 Oral presentations**

Please see following pages for Oral Presentation Program

Move to details of Oral Presentations

Room 1 Agricultural Systems and Food Innovation		Room 2 Environmental Management		Room 3 Rural Development, Education for Sustainable Development and Infrastructural Systems	
<i>Moderators</i>		<i>Mr. Ognen Onchevski and Dr. Takashi UENO</i>		<i>Dr. Sarvesh Maske y and Prof. Dr. Machito MIHARA</i>	
Zoom Access		https://zoom.us/j/98720211378?pwd=aWxkeEjU0JaejdGb2NqeTlsQ0lmdz09		https://zoom.us/j/92651593076?pwd=bWlwYWZUMkZlcINGSDBZb2JUMU9xdz09	
Chair		Dr. Chulemas Boonthai Iwai		Chair	
Co-chair		Dr. Toru Nakajima		Professor Dr. Machito Mihara	
Co-chair		Dr. Shuki Muramatsu		Co-chair	
Professor Dr. Eiji Yamaji		Professor Dr. Marites M. Buot			
<i>Japan Time</i>	<i>Code</i>	<i>Title</i>	<i>Code</i>	<i>Title</i>	<i>Code</i>
10:30-10:45	AG-01	Effect of Different Mulching Types on Insect, Disease Infestation and Yield of Onions (<i>Allium cepa</i> L.) <i>Chanthin Ouk and Kim Eang Tho</i>	EM-09	Evaluation of Site Contamination from Storage of Fertilizer <i>Barry N Noller</i>	RU-04
					Government-orientation on Contract Farming to Enhance the Confidence of Agricultural Investment in Cambodia <i>Vouchsim Kong, Vichhay Siek, Hour Phann, Pheach Kong, Borarin Buntong, Vutey Venn and Ravindra Chandra Joshi</i>
10:45-11:00	AG-14	The Acquisition of Passive Immunity (IgG) in the Newborn Piglets from Parity Sows in Contract Farm, Takeo Province, Cambodia <i>Vutey Venn, Phea Sum, Pheary Mol, Sovannkongkea Yan, Bunna Soychan, Laville Ly, Retha Mong and Alongkot Boonsoongnern</i>	EM-27	Effects of Chemical Extraction Methods on Physicochemical Properties of Shrimp Chitosan <i>Socheat Tong, Borarin Buntong, Laikong Sophal and Sokmean Vann</i>	RU-05
					Possibility of Value Addition on Traditional Rice Liquor in Cambodia <i>Mitsuru Hamano, Takashi Kuroda, Chim Chay, Boratana Ung and Kasumi Ito</i>
11:00-11:15	AG-15	Potential Measurement as a Method for Monitoring the Soil Chemical Environment <i>Narong Touch and Takahiko Nakamura</i>	EM-17	Effect of Adding Agricultural and Organic Lime on Survival Rate of <i>E. coli</i> and General Bacteria in Farmland Soils in Kampong Cham Province, Cambodia <i>Muyleang Kim and Machito Mihara</i>	RU-06
					Status of Production and Distribution Channel of Cassava in Cambodia -Future Prospects for Sustainable Production- <i>Kasumi Ito, Aya Nakatani, Tamon Baba, Hisako Nomura, Tha Than and Pao Srean</i>
11:15-11:30	AG-07	Effect of Temperature on the Cohort Life Table of Brown Planthopper (<i>Nilaparvata Lugens Stål</i>) (Homoptera: Delphacidae) <i>May Thu Htet, Moe Hnin Phyu and Thi Tar Oo</i>	EM-26	Identification of Glyphosate Tolerance Soil-borne Bacteria from Coconut, Coffee and Oil Palm Plantations in Universiti Putra Malaysia <i>Keiko Aoki, Wei Hong Lau and Vinailosni A/P Amirthalingam</i>	RU-08
					Factors Driving the Effectiveness of Community Fisheries Management Resulted from Fisheries Policy Reforms <i>Kaing Khim, Hori Mina, Kang Kroesna and So Nam</i>
11:30-11:45	AG-11	The Effect of the Application of Compost and Chemical Fertilizer on the Growth and Yield of Rice (<i>Oryza sativa</i> L.) <i>Theingi Win, Swe Swe Mar, Kyi Kyi Shwe, Win Yu Hlaing, Hsu Myat Thwin, Kyaw Ngwe and Toru Sakai</i>	EM-02	Preparation of Effective Microorganisms Based Compost Using Some Selected Wastes for Improvement of Plants Growth <i>Thi Dar Khaing</i>	ED-01
					School Gardens as a Method of Scaling Up Sustainable Technologies: A Review <i>Gracie Pekarcik and David Ader</i>
11:45-12:00	AG-20	Evaluation of Some Nutritional Values and Antioxidant Activities of Dried Tea Leaves in Seasonally <i>Chaw Su Hlaing, A Mar Wint, Ohn Mar Aye, Myo Thida Hteik</i>	EM-12	Study on the Water Quality of Indawgyi Lake Effected by Surroundings <i>Moe Tin Khainga and Daung Hawng</i>	RU-09
					Cambodian Culinary Tourism and Gastrodiplomacy: Challenges and Opportunities in a Post-COVID-19 World <i>Anna Di Nicola, Kristaps Kadikis and Lara Dunston</i>

30 minutes Break

Room 1 Agricultural Systems and Food Innovation		Room 2 Environmental Management		Room 3 Rural Development, Education for Sustainable Development and Infrastructural Systems		
<i>Moderators</i>		<i>Mr. Ognen Onchevski and Dr. Takashi UENO</i>		<i>Dr. Sarvesh Maske y and Prof. Dr. Machito MIHARA</i>		
<i>Zoom Access</i>		https://zoom.us/j/91861066770?pwd=Z2ZWUjdVeStJckZ2TDFQZDZIN0RlZz09		https://zoom.us/j/99852541034?pwd=cnRLUnB0OTFFR2diYVEvR0ozOW9Ndz09		
<i>Chair</i>		Professor Dr. Kiichiro Hayashi		Chair		
<i>Co-chair</i>		Dr. Nguyen Khoi Ngwia		Professor Dr. Barry Nollor		
<i>Co-chair</i>		Professor Dr. Hiromu Okazawa		Co-chair		
Dr. Nina N. Shimoguchi						
<i>Japan Time</i>	<i>Code</i>	<i>Title</i>	<i>Code</i>	<i>Title</i>	<i>Code</i>	
12:30-12:45	AG-05	Characterization and Diversity of Selected Maize (<i>Zea mays</i> L.) Genotypes Using Qualitative Traits <i>San Kyi, Kyaw Kyaw Win, Hla Than, Soe Win and Nyo Mar Htwe</i>	EM-03	Assessment of Soil Properties Using GIS Technologies in Selected Area of Myanmar <i>Hla Moe Khaing, Kyaw Ngwe, Swe Swe Mar and Htay Htay Oo</i>	RU-10	Farm to Market: Post Covid-19 Opportunities and Challenges for Farmers in Kampong Cham Province <i>Mari Arimitsu, Kumiko Kawabe and Machito Mihara</i>
12:45-13:00	AG-02	Study on use of Plant Based Material as a Fertilizer <i>Pa Pa San</i>	EM-04	Spatial Variability and Mapping of Soil Properties Using GIS-Based Geostatistic in Myanmar <i>Tun Tun Hlaing, Swe Swe Mar, Chaw Su Lwin, Htay Htay Oo and Kyaw Ngwe</i>	EM-01	Economic Assessment of Biogas Production Potential from Commercial Pig Farms in Cambodia <i>Lyhour Hin, Bunthan NGO, Lytour LOR, Sengheang SUY, Dyna THENG, Chanphakdey DOK, Sokhom MECH, Chan Makara MEAN, Sovannndy YUT, Makara LAY, Rachana KONG, and Bart FREDERIKT</i>
13:00-13:15	AG-12	Effect of Chicken Manure and Chemical Fertilizer Applications on Growth and Yield of Rice (<i>Oryza sativa</i> L.) <i>Kyi Kyi Shwe, Swe Swe Mara, Theingi Win, Win Yu Hlaing, Hsu Myat Thwin, Kyaw Ngwe and Toru Sakai</i>	EM-08	Spatial Variability of Soil Salinity and its Influence on Rice Yield in Salt-affected Areas Using Remote Sensing Techniques <i>Aung Naing Oo and Lwin Bo Bo Thet</i>	ED-02	The Application of Intervention Mapping in Developing Parental Behavior Modification Program for Pesticide Exposure Prevention among Children in Agricultural Areas for Sub-District Health Promotion Hospital, Thailand <i>Chakkrit Ponrachom, Satee Siritwat, Apiradee Wangkahard and Sriwipa Chuangchaiya</i>
13:15-13:30	AG-24	Assessment of Some Promising Lines of Rice (<i>Oryza sativa</i> L.) for Salt Tolerance Using Microsatellite Markers Associated with the saltol QTL <i>Moe Kyaw Thu, Aung Naing Oo, Nyo Mar Htwe, Ohn Mar Lynn and Khin Thida Myint</i>	EM-18	Relationship between NDVI and Canopy Cover Sensed by Small UAV under Different Ground Resolution <i>Ke Zhang, Hiromu Okazawa, Yuri Yamazaki, Kiichiro Hayashi and Osamu Tsuji</i>	EM-06	Assessment of Insect Damage and Growth Performance of Dipterocarps Planted at Rainforestation Demonstration Farm at VSU, Baybay City, Leyte <i>Kleer Jeann Galgo Longatang, Maria Juliet C. Ceniza, Jimmy O. Pogosa, Dennis P. Peque, Marlito Jose M. Bande, Leonard Paolo Longatang</i>
13:30-13:45	AG-19	Assessment of Soil Quality of Different Practices for Rain-fed Lowland Rice Farming in Cambodia-Using Biofunctool Approach <i>Sar Veng, Kannika Sajiaphan, Wuthida Rattanapichai, Rada Kong, Alexis Thoumazeau and Florent Tivet</i>	EM-21	Spatial Analysis on Distribution of Yield and Management Practices of Rice in Selected Area of Central Myanmar <i>Aye Myat Mon, Ye Phyo Mon, Tin Nwe Win, Arkah Myint, Myat Moe Hlaing and Than Myint Htun</i>	EM-24	Changing Spent Mushroom Substrate into a Quality Vermicompost <i>Supawadee Ruangjanda and Chuleemas Boonthai Iwai</i>
13:45-14:00	AG-10	Evaluation and Preference Analysis of Improved Rice Genotypes in Thar Ga Ya Village, Tharsi Township, Myanmar <i>Nyo Mar Htwe, Su Latt Phyu and Khant Sanda Htet</i>	EM-28	Interactions among Soil Physical, Chemical and Biological Properties under Different Farming Systems <i>Marisol Terashima and Machito Mihara</i>	EM-16	Water Harvesting as a Mean for Water Conservation in Ovche Pole Region, Macedonia <i>Ognen Onchevski and Machito Mihara</i>

30 minutes Break

Room 1	Agricultural Systems and Food Innovation	Room 2	Environmental Management	Room 3	k.LAB Seminar
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<i>Moderators</i>		<i>Mr. Ognen Onchevski and Dr. Takashi UENO</i>		<i>Dr. Sarvesh Maskey and Prof. Dr. Machito MIHARA</i>		<i>Ms. Keiko Aoki and Dr. Shinobu YAMADA</i>	
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Chair		Dr. David R. Ader		Chair		Dr. Junaid Alam Memon	
Co-chair		Dr. Narong Touch		Co-chair		Dr. Chou Phanith	
<i>Japan Time</i>	<i>Title</i>	<i>Code</i>	<i>Title</i>	<i>Title</i>			
14:30-14:45	EM-15 Monitoring of Water Quality During the Dry Season in Cheung Ek Lake, Cambodia <i>Somara Oum and Machito Mihara</i>	EM-19	Conservation and Ecological Threats of Agarwood (<i>Aquilaria</i> sp.) on Leyte Island, Philippines <i>Lorraine Cristy E. Ceniza, Jimmy O. Pogosa, Suzette B. Lina and Marlito M. Bande</i>	What is Artificial Intelligence for Environment and Sustainability; ARIES Approach <i>Professor Dr. Ferdinando Villa</i> (video)			
14:45-15:00	AG-25 Rice Varietal Assessment for Climate Change Adaptation from Socioeconomic Point of View: A Study in Myitthar Township <i>Shwe Mar Than, Yin Nyein Aye and Yin Yin Thant</i>	EM-20	Growth Performance of <i>Trema orientalis</i> L. (Blume) Ulm. Seedlings in Response to Mineral Nutrient Omission <i>Ken N. Florentino, Jimmy O. Pogosa, Rommel B. Armecin and Marlito Jose M. Bande</i>	k.LAB Demonstration <i>Professor Dr. Kiichiro Hayashi</i>			
15:00-15:15	AG-06 Evaluation of Selected Chemical, Biological Fungicides, and Induced Resistance to Control White Rot (<i>Sclerotium rolfsii</i> Sacc.) on Tomato <i>Penghaing Ly, Tho Kim Eang, Nget Raby, Ong Socheat and Ouk Chanthin</i>	EM-13	Soil Organic Carbon Stabilization on Forested and Deforested Red-Yellow Soil under Different Temperature Conditions <i>Arostegui Keiji and Machito Mihara</i>	Mini Hydro Models <i>Dr. Yuri Yamazaki</i>			
15:15-15:30	AG-13 The Influence of Packaging Materials and Storage Duration on Seed Quality of Sesame (<i>Sesamum indicum</i> L.) <i>Hnin Thida Nyo, Nyein Nyein Htwe and Kyaw Kyaw Win</i>	EM-23	Effects of Air Injection and Iron Oxide Pellet Addition on Hydrogen Sulfide Removal and Biogas Production <i>Lytour Lor, Machito Mihara, Bunthan Ngo, Lyhour Hin, Dyna Theng, Sokhom Mich, Chan Makara Mean, Chhiengputheavy Chhorth and Bart Frederiks</i>	Future Perspective <i>Professor Dr. Hiromu Okazawa</i>			
15:30-15:45	AG-16 Evaluation of Acceptability of Cashew Apple Jam in Cambodia <i>Sokly Sorn, Yoshiki Muramatsu, Daiki Oka, Yuri Tanikoka, Masataka Uchino, Shuki Muramatsu, Motoe Sekido, Takahiko Nakamura, Toru Nakajima, Eiichiro Sakaguchi, Shotaro Kawakami, Chim Chay, Mari Arimitsu and Machito Mihara</i>	EM-14	Effects of Adding Rice Husk Biochar in GHG Emission and Compost Quality during Cow Manure Composting <i>Sarvesh Maskey and Machito Mihara</i>				
15:45-16:00	AG-23 Physiochemical and Preferences of Goat and Cow Milk Products <i>Pisey Vong, Sath Keo, Chim Chay and Mom Seng</i>	EM-05	Production and Uses of Crop Residues in Cambodia: Rice Straw, Corn Stalk, Cassava Stem <i>Dyna Theng, Lytour Lor, Chhengven Chhoem, Kanhara Sambath, Pisey Vong, Sorkuthika Srou, Vathana Chamroeun, Davuth Eang, Makara Lay, Gerald Hitzler and Rajiv Pradhan</i>				

Move to Closing Ceremony with Announcement of Award Winners

Closing Ceremony

Moderators *Ms. Keiko Aoki and Prof. Dr. Machito MIHARA*

Zoom Access

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Japan Standard Time

16:30-17:00 16:30-16:50

Announcement of Award Winners

For *Excellent Paper Awards* : **Prof. Dr. Eiji YAMAJI**,
For *Poster Presentation Awards* : **Prof. Dr. Regucivilla A. POBAR**,
For *Award of Sustainability Promotion* : **Prof. Dr. Barry N. NOLLER**,
For *Award of Outstanding Scientific Achievements* : **Prof. Dr. Anan POLTHANEE**

16:50-16:58

Invitation to 13th ICERD held in Bohol, the Philippines

Professor Dr. Regucivilla A. POBAR
ISERD Regional Vice President (the Philippines), University President at Bohol Island State University, the Philippines

16:58-17:00 **Group photos**

taken by **Dr. Takashi UENO**
Director (Administrative) at Institute of Environmental Rehabilitation and Conservation, Japan

Looking forward to meeting you at the 13th ICERD in Bohol, the Philippines in March 2022