Tentative Program

Tentative Workshop Program

TARI-NARO-AARDO-FFTC Workshop

Unlocking Agrifood Innovation: From Sensors to Smart Farms

September 1-3, 2025

Chang Yung Fa Foundation Building, Taipei, Taiwan

Day 0: August 31, Sunday, Arrival

Day 1: September 1, Monday

Workshop

Time	Topics	Speakers
08:30 –09:00	Registration	
09:00 –09:30	Opening remarks and Group photo	TARI, NARO, AARDO, FFTC, MOA
	Session 1: **Advanced smart sensors and monitoring systems for precision agriculture** Moderator: Dr. Marvin M. Cinense Director, Philippines-Sino Center for Agricultural Technology (PhilSCAT) Central Luzon State University (CLSU), Philippines	35 min PPT + 10 min Q/A each speaker
09:30 –10:15	Keynote Speaker 1-1 Advancing agriculture with AI sensing: applications and emerging trends **Dr. Cheng-Ying Chou** Professor, Department of Biomechatronics Engineering, National Taiwan University, Taiwan	
10:15 –11:00	Keynote Speaker 1-2 **Dr. Junichi Nakagawa** DG, Center for Agricultural Robotics, NARO, Japan	
11:00 –11:20	**Break**	
	Session 2: **Real-time data processing and analytics for decision support in the field** Moderator: Dr. Cheng-Ying Chou	25 min PPT + 5 min Q/A each speaker

	Professor, Department of Biomechatronics Engineering, National Taiwan University, Taiwan	
11:20 –11:50	Speaker 2-1 **Dr. Yan-Fu Kuo** Professor, Department of Biomechatronics Engineering, National Taiwan University, Taiwan	
11:50 –12:20	Speaker 2-2 Adoption strategies of smart sensing technologies for field crops in Korea **Dr. Sanghun Lee** Researcher, Smart Agricultural Technology Research Division, National Institute of Crop Science, Rural Development Administration, Korea	
12:20 –13:40	**Lunch break**	
13:40 –15:00	**Poster and Exhibition:** **Smart sensing technologies in Asia**	
15:00 –15:30	Speaker 2-3 **Dr. Yandra Arkeman** Head Blockchain, Robotics & Artificial Intelligence Network (BRAIN) IPB University, Bogor, Indonesia	
15:30 –16:00	Speaker 2-4 Overview of agricultural production using high technology and smart sensors in Vietnam **Ms. Dinh Thi Nung** Deputy Head of Research & Transfer Division Research Center for Potato, Vegetables & Flowers, Institute of Agricultural Sciences for Southern Vietnam, VAAS, Vietnam	
16:00 –16:20	**Break**	
	Session 3: **Real-world applications of smart sensing:** **case studies and success stories** Moderator: Dr. Yandra Arkeman Head	25 min PPT + 5 min Q/A each speaker

	Blockchain, Robotics & Artificial Intelligence Network (BRAIN) IPB University, Bogor, Indonesia	
16:20 –16:50	Speaker 3-1 **Dr. Marvin M. Cinense** Director, Philippines-Sino Center for Agricultural Technology (PhilSCAT) Central Luzon State University (CLSU) Philippines	
16:50 –17:20	Speaker 3-2 Japan Toward international standards for smart and sustainable rice cultivation in the ASEAN Region **Dr. Akane Takezaki** Senior Principal Scientist Institute of Agricultural Machinery, NARO, Japan	
17:20 –17:30	The 1st day Wrap up	
	Welcome Dinner	

Day 2: September 2, Tuesday
Workshop (Morning), Field visit (Afternoon)

Time	Topics	Speakers
	Session 3 (continued): **Real-world applications of smart sensing: case studies and success stories**	25 min PPT + 5 min Q/A each speaker
08:50 –09:20	Speaker 3-3 Smart poultry farming: integrating AI for next-generation management **Dr. Yao-Chuan Tsai** Associate Professor and Chair, Department of Bio-industrial Mechatronics Engineering, National Chung Hsing University, Taiwan	
09:20 –09:50	Speaker 3-4 Digital tools for better farming: Malaysia's smart sensing journey **Dr. Arina binti Mohd Noh** Principal Research Officer Engineering Research Centre Malaysian Agricultural Research and Development	

	Institute (MARDI), Malaysia	
09:50 –10:20	Speaker 3-5 Taiwan **Dr. Yen-Jen Chang** Distinguished Professor Department of Computer Science and Engineering National Chung Hsing University, Taiwan	
10:20 –10:40	**Break**	
10:40 –11:40	**Panel Discussion** **Moderator: Dr. Yen-Fu Kuo** Professor, Department of Biomechatronics Engineering, National Taiwan University **Panelists:** **Dr. Junichi Nakagawa** DG, Center for Agricultural Robotics, NARO, Japan **Dr. Yan-Fu Kuo** Professor, Department of Biomechatronics Engineering, National Taiwan University, Taiwan **Dr. Yandra Ackerman** Head Blockchain, Robotics & Artificial Intelligence Network (BRAIN) IPB University, Bogor, Indonesia **Dr. Marvin M. Cinense** Director, Philippines-Sino Center for Agricultural Technology (PhilSCAT) Central Luzon State University (CLSU) Philippines **Dr. Arina binti Mohd Noh** Principal Research Officer Engineering Research Centre Malaysian Agricultural Research and Development Institute (MARDI), Malaysia	Indonesia
11:40 –11:50	Closing remarks	TARI, NARO, FFTC
11:50-12:40	**Lunch break**	

12:40-13:40	En route to YesHealth Plant Factory	
13:40 – 14:30	Visit YesHealth	
14:30-15:00	Enroute to Taocheng Shichai Vegetable Smart Irrigation System	
15:00-15:55	Visit to Taocheng Shichai Vegetable Smart Irrigation System	
15:55-16:30	Enroute to Chang Sheng Tea Factory	
16:30-17:40	Visit to Chang Sheng Tea Factory	
17:40 – 20:40	Dinner at a nearby restaurant, and come back to Taipei	

Day 3: September 3, Wednesday
Field Trip

Time	Topic	Speakers
9:00- 10:00	Enroute to Nangang Trade Exhibition Hall	
10:00-12:30	Trip to Taiwan Smart Agriweek 2025, Nangang Trade Exhibition Hall	
12:30 – 14:00	Lunch break on the 3rd Floor and free visit to Taiwan Smart Agriweek 2025	
14:00 – 17:00	Trip to the National Palace Museum in Shilin District	
17:00 – 19:00	Dinner at a nearby restaurant	

Day 4: September 4, Thursday, Departure