

**MARDI-FFTC International Videoconference Workshop on  
“Role of Healthy Soil-Plant Interactions towards  
Achieving Resilient Agriculture in the Asian and Pacific Region”**

**August 22, 2022, 09:00-17:00 (GMT +8)**

**Draft Program**

<b>Time</b>	<b>Program</b>	<b>Note</b>
8:30-9:00	<b>Registration/Log-in</b>	30 mins
<b>Session 1:</b>	<b>Opening Ceremony</b>	20 mins
09:00-09:20	Welcome Message <b>Dato’ Dr. Mohammad Zabawi Bin Abdul Ghani</b> Director General MARDI	5 mins
	Opening Remarks <b>Dr. Su-San Chang</b> Director, FFTC	5 mins
	Rationale <b>Dr. Rosazlin Abdullah</b> President, The East and Southeast Federation of Soil Science Societies (ESAFS) and the Malaysian Society of Soil Science (MSSS)	5 mins
	Introduction of Speakers and Participants <b>Mr. Ronald Mangubat</b> Information Officer, FFTC	4 mins
	<b>Group Photo</b>	1 min
<b>Session 2:</b>	<b>Keynote Session</b> <b>Moderator: Dr. Dar Yuan Lee</b> <b>Associate Dean</b> <b>College of Bioresources and Agriculture</b> <b>Distinguished Professor, Department of</b> <b>Agricultural Chemistry, National Taiwan</b> <b>University</b>	1 hour and 25 minutes
09:20-09:45	Healthy soils for resilient agriculture towards enhancement of food security in Asia <b>Dr. Ganisan Krishnen</b> Senior Research Officer Soil Science & Water Fertilizer Research Centre, MARDI Malaysia	25 mins
09:45-09:55	Q&A	10 mins
09:55-10:20	Plant adaptation to changing nutritional conditions in soils <b>Dr. Toru Fujiwara</b> Professor Graduate School of Agricultural and Life Sciences University of Tokyo Japan	25 mins

10:20-10:30	Q&A	10 mins
10:30-10:45	Coffee break (Video presentation on MARDI's related project)	15 mins
<b>Session 3:</b>	<b>Theme: Practical management to improve soil-plant interactions for agricultural productivity</b>  <b>Moderator: Dr. Yu-Wen Lin</b> <b>Associate Researcher</b> <b>Agricultural Chemistry Division</b> <b>Taiwan Agricultural Research Institute, Taiwan</b>	1 hour and 40 mins
10:45-11:05	Enhancing agricultural productivity through nanotechnology <b>Dr. Pearl B. Sanchez</b> Professor Agricultural Systems Institute College of Agriculture and Food Science University of the Philippines at Los Baños Philippines	20 mins
11:05-11:25	Effects of shallow hidden pipes on soil salinity of greenhouse cucumber <b>Mr. Wen-jin Jiang</b> Researcher Tainan District Agricultural Research and Extension Station Taiwan	20 mins
11:25-11:45	Soil fertility management for sustainable plant production in Malaysia <b>Ms. Faridah Binti Manaf</b> Senior Research Officer Soil Science, Water and Fertilizer, MARDI Malaysia	20 mins
11:45-12:05	Utilization of sugarcane trash to improve soil fertility <b>Dr. Kanokkorn Sinma</b> Assistant Professor Dept. of Soil Science Faculty of Agriculture Kasetsart University, Thailand	20 mins
12:05-12:25	<b>OPEN FORUM</b>	20 mins
12:25-13:35	<b>Lunch Break (Video presentations from MARDI and/or ESAFS)</b>	1 hour and 10 mins
<b>Session 4: Continued</b>	<b>Theme: Advances in soil-plant management to boost productivity, sustainability and resilience in agriculture</b>  <b>Moderator: Dr. Pearl B. Sanchez</b> <b>Professor</b> <b>Agricultural Systems Institute</b>	2 hours and 5 mins

	<b>College of Agriculture and Food Science University of the Philippines at Los Baños</b>	
13:35-13:55	The use of polyacrylic acid and polyurethane in controlling the release of Nitrogen, Phosphorus and Potassium of compound fertilizer <b>Dr. Arief Hartono</b> Coordinator, Soil & Plant Laboratory Analysis Faculty of Agriculture IPB University, Bogor, Indonesia	20 mins
13:55-14:15	Recent trend in nutrient use, balance and efficiency for sustainable intensification in Japan <b>Dr. Shin-ichiro Mishima</b> Principal Researcher Agro-Environmental Informatics Group NARO, Japan	20 mins
14:15-14:35	Effect of biochar on soil quality, carbon storage and crop yield: a solution for carbon farming <b>Dr. Nguyen Van Hien</b> Soil/Plant Nutrition Specialist The Soils & Fertilizers Research Institute, Vietnam	20 mins
14:35-14:55	Case study on the prediction of soil organic carbon and fertilizer requirement using legacy data in Korea <b>Dr. Chang-hoon Lee</b> Assistant Professor Korea National University of Agriculture & Fisheries Korea	20 mins
14:55-15:15	Measures adopted in Taiwan to strengthen healthy soil-plant interactions for resilient agriculture <b>Dr. Yu-Wen Lin</b> Associate Researcher Agricultural Chemistry Division Taiwan Agricultural Research Institute, Taiwan	20 mins
15:15-15:40	<b>OPEN FORUM</b>	25 mins
15:40-15:55	<b>Coffee break</b>	15 mins
<b>Session 5:</b>	<b>General Discussion</b>  <b>Moderator: Dr. Ganisan Krishnen</b> <b>Senior Research Officer</b> <b>Soil Science &amp; Water Fertilizer Research Centre,</b> <b>MARDI</b>	1 hour
15:55-16:45	<b>General Discussion/Synthesis</b> <ul style="list-style-type: none"> <li><b>Future challenges and R&amp;D directions for healthy soil plant interactions</b></li> <li><b>Contributions to zero carbon emissions</b></li> </ul>	50 mins

	<ul style="list-style-type: none"> <li>• <i>Policy support to sound field practices</i></li> <li>• <i>Recommendations &amp; conclusions</i></li> </ul>	
<b>Session 6:</b>	<b>Closing Ceremony</b>	15 mins
16:45-17:00	<p>Closing Remarks</p> <p><b><i>Dato' Dr. Mohammad Zabawi Bin Abdul Ghani</i></b>  Director General  MARDI</p> <p><b><i>Dr. Su-San Chang</i></b>  Director, FFTC</p>	15 mins