

## 2023 MARDI-PCAARRD-FFTC Workshop

### Agricultural Waste Management for Sustainable Food Production

Workshop 08:30 – 17:00 (GMT+8), July 10<sup>th</sup>, 2023  
Hybrid mode: MARDI Headquarters (onsite) and Webex (online)

Field trip 08:00 – 19:30 (GMT+8), July 11<sup>th</sup> – 12<sup>th</sup>, 2023

July 10<sup>th</sup>, 2023 (Monday), **08:00 – 17:30 (GMT+8) Workshop**

| Time (GMT+8)  | Topics and speakers   | Note                                       |
|---------------|---|--|
| 08:00 – 08:30 | Onsite registration and Online login  |  |
|               | <b>Opening</b>  | 30 min                                     |
| 08:30 – 08:50 | <p style="text-align: center;"><b>Welcome and Remarks</b></p> <p style="text-align: center;">MARDI: Dato' Dr. Mohamad Zabawi Bin Abdul Ghani<br/>DOST-PCAARRD: Dr. Reynaldo V. Eborá<br/>FFTC: Dr. Su-San Chang</p>   | 20 min                                     |
| 08:50 – 09:00 | Photo session   | 10 min                                     |
| 09:00 – 09:40 | <p style="text-align: center;"><b>Keynote lecture</b></p> <p style="text-align: center;">Dr. Loh Soh Kheng (MPOB, Malaysia)</p> <p style="text-align: center;"><b>Sustaining Agricultural Production via Waste to Wealth<br/>Circular Approach</b></p> <p style="text-align: center;">Moderator: Dr. Tzu-yu Fu (Council of Agriculture, Taiwan)</p> | 40 min<br>(30 min<br>talk +10<br>min Q&A)  |
|               | <p style="text-align: center;"><b>Session 1</b></p> <p style="text-align: center;"><b>Utilization of Wastes as an Untapped Resource for<br/>Sustainable Food Systems</b></p> <p style="text-align: center;">Moderator: Dr. Rosliza Jajuli (MARDI, Malaysia)</p>   |  |
| 09:40– 10:10  | <p>Topic 1-1: <b>Application of By-Products from Agriculture as<br/>Feed Resources for Livestock in Taiwan</b></p> <p>Dr. Jeng-Bin Lin (Livestock Research Institute, Taiwan)</p>   | 30 min<br>(20 min<br>talk + 10<br>min Q&A) |
| 10:10 – 10:40 | <p>Topic 1-2: <b>Strategies to recycling agricultural waste for<br/>increasing crop production: natural recycling agriculture and<br/>biochar</b></p> <p>Dr. Jin-Hyeob Kwak (Jeonbuk National University, Korea)</p>  | 30 min                                     |
| 10:40 – 11:00 | <b>Tea Break</b>  | 20 min                                     |
| 11:00 – 11:30 | <p>Topic 1-3: <b>Technological Innovations in Agricultural Waste<br/>Management in Malaysia</b></p> <p>Dr. Sashikala A/P Maruthai Pillai (MARDI, Malaysia)</p>  | 30 min                                     |
| 11:30 – 12:00 | <p>Topic 1-4: <b>Food Waste Composting and Recycling Loop<br/>Creating in Malaysia</b></p> <p>Mr. Shinsuke Takeuchi (KITA, Japan)</p>   | 30 min                                     |

|               |  |                        |
|---------------|--|------------------------|
|               | <p align="center"><b>Session 2:</b><br/><b>Technological Innovations in Agricultural Waste Management</b></p> <p>Moderator: Teoh Chin Chuang (MARDI, Malaysia)</p>   |                        |
| 12:00 – 12:30 | <p><b>Topic 2-1: Production forecasting system for stable supply and waste reduction of field vegetables</b><br/>Dr. Koji Sugahara (NARO, Japan)</p>   | <i>30 min</i>          |
| 12:30 – 13:00 | <p><b>Topic 2-2: Technological Innovations in Agricultural Waste Management in the Philippines</b><br/>Ms. Ofelia F. Domingo (DOST-PCAARRD, Philippines)</p>   | <i>30 min</i>          |
| 13:00 – 14:00 | <b>Lunch Break</b>   | <i>1 hr</i>            |
|               | <p align="center"><b>Session 3:</b><br/><b>Economic and Policy Aspects of Agricultural Waste Management</b></p> <p>Moderator: Ms. Ofelia F. Domingo (DOST-PCAARRD, Philippines)</p>  |                        |
| 14:00 – 14:30 | <p><b>Topic 3-1: Community of Practice - Sustainable Cassava Value Chain through knowledge and technology transfer in Thailand, Cambodia, Lao PDR, Vietnam, and Myanmar</b><br/>Dr. Warinthorn Songkasiri (BIOTEC, Thailand) (online)</p>  | <i>30 min</i>          |
| 14:30 – 15:00 | <p><b>Topic 3-2: Economic Aspect of Sustainable Agricultural Waste Management Strategies in Indonesia: A Case Study for Rice, Oil Palm and Sugar Cane</b><br/>Dr. Yusman Syaukat (IPB University, Indonesia)</p>   | <i>30 min</i>          |
| 15:00 – 15:30 | <p><b>Topic 3-3: Barriers and Policy Gaps for Utilization of Agricultural Residues for Sustainable Food Production in Vietnam</b><br/>Dr. Tran Van The (Institute of Agricultural Environment, VAAS, Vietnam)</p>  | <i>30 min</i>          |
| 15:30 – 15:50 | <b>Tea Break</b>   | <i>20 min</i>          |
| 15:50 – 17:00 | <p align="center"><b>Session 4</b></p> <p align="center"><b>Panel discussion: Waste Management for Increasing Sustainability and Income – Challenges and Solutions</b></p> <p>Moderator: Mr. Mohd Rashid Rabu (MARDI, Malaysia)</p> <p><b>Topic 1: Integrated Organic Farming (IOF): Close Loop System/Circular Economy</b><br/>Prof Anthony Wong (Natural Farming Association Malaysia)</p> <p><b>Topic 2: Towards Net-Zero: Taiwan's Pathway to A Carbon Neutral and Circular Agriculture</b><br/>Dr. Tzu-yu Fu (Council of Agriculture, Taiwan)</p> | <i>1 hr<br/>10 min</i> |
| 17:00-17:10   | <b>Summary by FFTC</b>   | <i>10 min</i>          |
| 17:10 – 17:30 | <p><b>Closing Remarks</b><br/>MARDI: Dato' Dr. Mohamad Zabawi Bin Abdul Ghani<br/>DOST-PCAARRD: Dr. Reynaldo V. Ebor<br/>FFTC: Dr. Su-San Chang</p>  | <i>20 min</i>          |

July 11<sup>th</sup>, 2023 (Tuesday), **Field Trip Program**

| Time (GMT+8)  | Topics                           | Note |
|---------------|----------------------------------|------|
| 08:00 – 08:30 | Hotel pickup                     |      |
| 08:30 – 09:30 | Travel to PJ Eco Recycling Plaza |      |
| 09:30 – 11:00 | Visit PJ Eco Recycling Plaza     |      |
| 11:00 – 13:00 | Travel to Perak                  |      |
| 13:00 – 14:00 | Lunch                            |      |
| 14:00 – 17:00 | Travelling to Cameron Highlands  |      |
| 17:00 – 20:00 | Check-in hotel and free & easy   |      |
| 20:00 – 21:00 | Dinner                           |      |

July 12<sup>th</sup>, 2023 (Wednesday), **Field Trip Program**

| Time (GMT+8)  | Topics  | Note |
|---------------|---|------|
| 08:00 – 8:30  | Briefing for the waste program at the Hotel   |      |
| 08:30 – 09:00 | Travel to MARDI Cameron Highlands   |      |
| 09:00 – 09:30 | Briefing on MARDI Cameron Highlands Agropark  |      |
| 09:30 – 10:30 | Visit MARDI Organic Farm & Biogas System  |      |
| 10:30 – 11:00 | Coffee break  |      |
| 11:00 – 11:30 | Explore MARDI Agropark  |      |
| 11:30 – 12:30 | Lunch   |      |
| 12:30 – 13:00 | Travel to Chitose Oriental Lily<br>(Vegetables & Fruits shop using zero waste management practices) |      |
| 13:00 – 14:00 | Visit Chitose Oriental Lily   |      |
| 14:00 – 14:20 | Travel to Compost Centre, Blue Valley   |      |
| 14:20 – 14:45 | Visit Compost Centre<br>(Briefing by Greenviro Sdn. Bhd.)   |      |
| 14:45 – 15:00 | Tea break   |      |
| 15:00 – 19:00 | Travelling back   |      |
| 19:00 – 19.30 | Arrive at MARDI HQ / Hotel  |      |