2022 Invitational Training Program

1. Overview

Program: Training Program for Strengthening international Agricultural Cooperation

Title: The Present and Future of Smart Farming in Korea

Purpose: To introduce Smart Farming Technologies, Policies and Leading Smart Farm companies in Korea.

Date: There are two options available as below.

- ✓ **12:30~16:20 (KST), Oct 25, 2022**
- ✓ **20:00~23:50 (KST), Oct 26, 2022**

    * The program will be streamed on YouTube and Zoom on both days.

    Applicants will receive program instructions, access link and further information via email.

Participants: Government Officials, experts and entrepreneurs from 45 countries in the agricultural sector

   * English fluency is required.

   * No limit on the number of participants from each country.

Participation fee: N/A (supported by the Korean government)

Application: Submit application form via Google Forms or Email by Oct. 14, 2022.

- ✓ Google Forms Link: https://forms.gle/RaiYTseZFDVeFQW4A
- ✓ E-mail: info.trainingprogram2022@gmail.com (cc: gywls4727@korea.kr, wngwjd@epis.or.kr)

2. Main Contents (refer to the annex for detailed contents of the program schedule)

- ✓ **Current Status of Smart Farming Agriculture and Smart Farming Policies in Korea**
- ✓ **Smart Farming Technologies in Korea**

  - Technologies of enhancing crops productivity : Technologies and Models of Container Plant Factory
  - Eco-friendly Agricultural Technologies : Use of Eco-friendly Energy(Photovoltaic) and Eco-friendly Materials(Biochar)
  - AI and Big Data Technologies in Agriculture : Research on Agile Farming Platform, Data-based Crop Cultivation and Pest Control

Oct. 25	Oct. 26	Key Content		
12:00-12:30	19:30-20:00	Pre-rehearsal and Attendance Check		
12:30-12:35	20:00-20:05	**[Welcoming Remarks] 2022 Training Program**		
		① Congratulatory Remarks		
		② Opening Remarks		
12:35 -13:15	**20:05 -20:45**	**[Session 1] Current Status of Smart Farming in Korea**		
12:35-13:00	20:05-20:30	Lecture (25 min)	**Current Status of Digital Agriculture** - Introduction to smart farming technology and R&D Policy in Korea	
13:00-13:15	20:30-20:45	Field visit (15 min)	**Case Study of Smart Agricultural Policy in Korea** - Smart farm Innovation Valley in Gimje, South Korea * Introduction to smart farm facilities and automated, precise, and unmanned agricultural site	
13:15 -13:55	**20:45-21:25**	**[Session 2] Technologies of enhancing crops productivity**		
13:15-13:40	20:45-21:10	Lecture (25 min)	**Current Status of Container Plant Factory** - Introduction to the structure and technical details in container plant factory	
13:40-13:55	21:10-21:25	Field visit (15 min)	**Cases of Container Plant factory in Korea** - Introduction to the Container Plant Factory Models from Korean enterprises	
13:55-14:15	**21:25-21:45**	**Q&A on Session 1-2 (20 min)**		
14:15-14:30	**21:45-22:00**	**Break (15 min)**		
14:30-15:10	**22:00-22:40**	**[Session 3] Eco-Friendly Practices in Agriculture**		
14:30-14:55	22:00-22:25	Lecture (25 min)	**Smart Farming of Eco-friendly Energy** - Current Status and Future of Agrivoltaics * Introduction to Crop cultivation & the effect of environmental protection in demonstration complex of Agrivoltaics	
14:55-15:10	22:25-22:40	Field visit (15 min)	**Smart Farming of Eco-friendly Materials** - Biochar Technology and Application for Carbon Reduction * Introduction to biochar technology and its effectiveness (for carbon reduction)	
15:10-15:50	**22:40-23:20**	**[Session 4] AI and Big Data Technologies in Agriculture**		
15:10-15:35	22:40-23:05	Lecture (25 min)	**Smart Farming Utilizing AI Technology** - Agile Farming Platforms for the Future Agriculture * R&D status of future agriculture, robotics, and AI	
15:35-15:50	23:05-23:20	Field visit (15 min)	**Case of Smart Agriculture Using Big Data and Sensors** -Data-based Crop Cultivation (Strawberries) and Pest Control * Collecting Big data from the Plant growth conditions; Utilization of high-tech environment sensors	
15:50-16:10	**23:20-23:40**	**Q&A on Session 3-4 (20 min)**		
16:10-16:20	**23:40-23:50**	**Closing Remarks (10 min)**		

* The above schedule may change due to unforeseen circumstances.
* Questions will be entertained using the live chat. Answers will be provided live during the Q&A session.

Application for 2022 Invitational Training Program (Online)

APPLICANT INFORMATION (to be completed by the applicant)

I. PROGRAM

Time option	☐ 12:30~16:20 (KST), Oct 25, 2022
	☐ 20:00~23:50 (KST), Oct 26, 2022

II. PERSONAL DATA

Name (as in the passport)	**First Name** ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐ **Middle Name** *(if any)* ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐ **Family Name** ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

Sex	☐ Mr. ☐ Ms.	**Nationality**	
Contact Information (Including Country Code)	Telephone		
	e-mail		

III. CURRENT EMPLOYMENT

Department / Organization			
Designated Position		**Employment Duration**	from __YYYY__ to present
Type of Organization	Government	☐ Central ☐ Local	
	Institution	☐ Public ☐ Private ☐ International ☐ NGO	
	Others	(Please specify)	

IV. Agreement on Collection and Use of Personal Information

① MAFRA collects and uses the participants' Unique Identifying Information; and is able to provide such information for a third party in accordance with MAFRA policy and regulations.

- **Personal Information Collected** : name, sex, nationality, contact information, employment status, career and educational record

- **Purpose** : implementation and promotion of the MAFRA Invitational Training Program, identification of participants, record keeping, supporting MAFRA Club activities, and strengthening the partnership between Korea and Partner Countries

- **Retention Period** : For 4 months after application

② If you do not approve our collection and use of your personal information, you may also refuse to agree. However, you may have limited support from MAFRA regarding participating this program.

☐ Agree   ☐ Disagree