

FOOD CROP PLANT PROTECTION

RECENT ADVANCES, BEST PRACTICES, AND FUTURE DIRECTIONS FOR SUSTAINABLE FOOD SYSTEMS

November 28-29, 2023 | Hanoi, Vietnam

Background

Weeds and pests present a persistent global challenge for sustainable and profitable crop production, particularly in Southeast Asia and Vietnam. As a key food-producing and exporting nation, urgently requires increased food production. Herbicides and pesticides are currently the most cost-effective methods for plant protection, albeit with acknowledged hazards necessitating rigorous risk management. Southeast Asian countries witness off-label use of agrichemicals, escalating human exposure. Soil degradation remains uncontrolled, contributing to pesticide resistance.

While best practices for agrichemical use are well-documented, a gap persists between recommendations and real-world implementation. Emerging challenges include herbicide and pesticide resistance, with new technologies like portable weed identification devices introduced. However, smallholder farmers often lack the means to invest in these solutions due to their limited land holdings.

This workshop is intended to review best practices of applications of plant protection chemicals currently in use in Vietnam, proper application techniques, review human and environmental exposure and data gaps, and potential improved approaches to current practices.

Target audience

This workshop is crucial for government officers, policy makers, scientists, and industry decision-makers engaged in crop protection. It offers vital insights into cutting-edge practices concerning weed, pesticide, and herbicide management, fostering innovation, and ensuring safety in agricultural applications, essential for sustainable and effective crop protection.

TO REGISTER

For **researchers, scientists or industry representatives**, please click here to register:

<https://forms.gle/2nCi8WnCf9HaTtn46>

Contact us:

ILSI SEA Region

ilsisea@ilsisea.org.sg

This meeting is jointly organized by



AGENDA

Day 1: Nov 28, 2023

Time	Program	Speaker
8.30am-9.00am	Registration and guests arrival	
9.00am-9.30am	Opening remark	Organizer and co-organizers
Session 1: Current farming practices with plant protection chemicals, Vietnam and global		
9.30am – 10.00am	Overview of the current situation in Vietnam & present on pest management in tropical climates	Prof. Nguyen Van Tuat, Chairman of Vietnam Plant Protection Association (VNPPA)
10.00am- 10.30am	Driving Sustainable Food Systems Transformation in the Asia-Monsoon Region with Science, Technology and Innovation	Dr Funaki Yasuro, Japan International Research Center for Agricultural Sciences (JIRCAS)
Session 2: Integrated weed management, and Herbicide resistance		
10:30am – 11.00am	Biotechnological Road Map for Innovative Weed Management	Dr. Bhagirath Singh Chauhan, University of Queensland
11.00am – 11.30am	Herbicide resistance and Asia HRAC activities	**
11.30am – 11.50am	Break	
11.50am – 12.20pm	Pesticide susceptibility monitoring of fall armyworms and information-sharing among Southeast Asian countries	Dr. Pruetthichat Punyawattoe, Plant Protection Research and Development Office in Thailand
12.20pm – 12.40pm	Q&A for session 1 & 2	
12.40pm – 2.00 pm	Lunch	
Session 3: Sustainable Pesticide Management Framework- CropLife Asia		
2.00pm – 2.30pm	Sustainable Pesticide Management	Ms. Delisa Jiang, Program Manager, Sustainable Pesticide Management CropLife International.
2.30pm- 3.00pm	SPMF	*
Session 4: Rice Practices, Weed and Pest Control		
3.00pm- 3.30pm	Weed management in wet-seeded rice	Dr. Bhagirath Singh Chauhan, University of Queensland
3.30pm- 4.00pm	Rice Disease management – sustainable practices	Dr. Nguyen Duc Cuong Head of plant protection department, Cuu Long Rice Research Institute CLRRI
4.00pm – 4.20pm	Break	
4.20pm – 4.50pm	The importance of pesticide application method	Mr. Hung Tien Nguyen, PPRI, Macquarie University
4.50pm – 5.20 pm	Panel Discussion	
Day 2: Nov 29, 2023		
Session 5: Innovation in Herbicides/Pesticides and biocontrol		
8.30am – 09.00am	Innovation in insecticide discovery	**
9.00am – 09.30am	Biological control- successes and failures	Dr. Kris Wyckhuys, University of Queensland
09.30am – 10.00am	Biological control in Vietnam	Prof. Nguyen Duc Tung, Vietnam National University of Agriculture (VNUA)
10.00am – 10.30am	Biotechnological Solutions for Sustainable Remediation of Organic Pollutants: Food Waste Biorefinery and Bioremediation Perspectives	Dr. Sunita Varjani, City University of Hong Kong
10.30am – 10.50am	Break	
Session 6: Food exposure and toxicology		
10.50am – 11.20am	21 st century toxicology applied to agricultural chemicals	Dr. Rhian B. Cope, Australian Pesticides and Veterinary Medicines Authority
11.20am – 11.50am	Agricultural chemical risk assessment I Vietnam	**
11.50am – 12.20pm	Measurement of Pesticide Residues in Foods and Exposure Analysis in Vietnam	Dr. Son Cao Tran, National Institute of Food Control, Vietnam
12.20pm – 12.50pm	Agricultural chemical risk assessment and human exposure	Mr. Alan Norden, *Former Executive Director - Registration: Australian Pesticides and Veterinary Medicines Authority (APVMA)
12:50pm- 2.00pm	Lunch	
2.00pm – 3.00pm	Panel discussion	