



ABSTRACT AND PROGRAMME BOOK

13TH ICPPT 2026

INTERNATIONAL CONFERENCE
ON PLANT PROTECTION
IN THE TROPICS 2026

REDEFINING PLANT PROTECTION :
CROP RESILIENCE THROUGH
SUSTAINABLE INNOVATION



23RD - 25TH
SEPTEMBER 2026



ST. GILES WEMBLEY
PENANG,
MALAYSIA

ORGANISER CO-ORGANISER



COLLABORATORS



PENANG
2030



penang
convention &
exhibition
bureau

PENANG
Inspiring
Meetings

SPONSORS

DIAMOND



CORTEVA
agriscience

PLATINUM



SD Guthrie
Agri Bio

GOLD



SILVER



BRONZE



OPENING CEREMONY

WEDNESDAY (23rd September 2026)

0815 - 0845	Arrival of Invited Guests
0845	Arrival of YB Goh Choon Aik <i>Exco for Trade and Community Unity of Penang</i>
0900	<i>Negaraku</i> <i>Untuk Negeri Kita</i> Doa Recitation by Dr. Nik Mohd Izham Mohamed Nor
0910	Opening Remarks by Master of Ceremonies Cultural Performance
0920	Welcoming Address Dr. Mohd As'wad Abdul Wahab <i>Chairman of 13th ICPPT 2026</i>
0925	Officiating Address YB Goh Choon Aik on behalf of YAB Chow Kon Yeow, Chief Minister of Penang Officiating Gimmick Presentation of Token of Appreciation to YB Goh Choon Aik Multimedia Presentation
0935	Booth Visit by YB Goh Choon Aik
0945 - 1015	Refreshment

13th ICPPT 2026 GALA DINNER & MAPPS GOLDEN JUBILEE CELEBRATION

THURSDAY (24th September 2026)

1940	Arrival of Guests
1955	Arrival of VIPs and VVIP Guest of Honour YB Dato' Seri Sundarajoo A/L Somu <i>EXCO for Housing and Environment Penang</i>
2010	<i>Negaraku</i> <i>Untuk Negeri Kita</i>
2015	Opening Remarks by Master of Ceremonies Doa recitation by Assoc. Prof. Dr. Syari Jamian
2025	Presidential Address Assoc. Prof. Dr. Muhammad Saiful Ahmad Hamdani <i>President of MAPPS (2024-2026)</i>
2035	Official Opening of the Gala Dinner and MAPPS Golden Jubilee Celebration Golden Jubilee Commemorative Cake Cutting
2050	Gala Dinner Begins Cultural Performance
2105	Recognition of Former and Present MAPPS Presidents - Presentation of Appreciation Tokens
2120	Presentation of Tokens of Appreciation to Industrial Partners
2130	Presentation of ETF Community Grant Awards
2135	Award Presentation Ceremony: - Best Poster Awards - MAPPS-Corteva Travel Grant Awards
2145	Closing Remarks by the President of MAPPS (2026-2028)
2155	Group Photograph
2200	End of Gala Dinner



13th International Conference on Plant Protection in the Tropics 2026 (13th ICPPT 2026)

SCIENTIFIC PROGRAM

TUESDAY (22 SEPTEMBER 2026)	
2000 - 2200	Pre-registration
WEDNESDAY (23 SEPTEMBER 2026)	
0730 - 0900	Registration / Poster Set Up
0900 - 0945	Opening Ceremony (Venue: Wembley Ballroom 2)
0945 - 1015	Tea Break
1015 - 1100	KEYNOTE I (Venue: Wembley Ballroom 2) <i>From Pest Management to Crop Resilience: Integrating Innovations for Sustainable Plant Protection in the Tropics</i> Prof. Dr. Barbara L. Caoili Director, National Crop Protection Center, College of Agriculture and Food Science, University of the Philippines Los Baños Chairperson: Assoc. Prof. Dr Muhammad Saiful Ahmad Hamdani
1100 - 1110	DIAMOND SPONSOR SESSION
1110 - 1155	KEYNOTE II (Venue: Wembley Ballroom 2) <i>The Future Direction of the Agrochemical Industry Towards Sustainable Solutions</i> Dr. Courtney A. Gallup Asia Pacific Integrated Field Sciences Leader, Crop Health Research & Development, Corteva Agriscience LLC Chairperson: Dr. Mohd As'wad Abdul Wahab
1200 - 1400	Lunch Break
1400 - 1430	PLENARY I (Venue: Wembley Ballroom 2) <i>Insights of Drone Application Technology Adoption and Performance in Oil Palm and Coconut Cultivation: SD Guthrie's Experiences</i> Mr. Meor Badli Shah Ahmad Rafie Head of Crop Protection Section, SD Guthrie Research Sdn. Bhd. Chairperson: Mr. Aiman Hanis Jasmi

	CONCURRENT SESSION 1		
	SESSION 1A PEST MANAGEMENT (WEMBLEY BALLROOM 2) Chairperson: Dr. Marina Roseli	SESSION 1B PLANT DISEASE (WEMBLEY 7) Chairperson: Assoc. Prof. Dr. Masratul Hawa Mohd	SESSION 1C WEED SCIENCE (WEMBLEY 8) Chairperson: Ts. Dr. Anis Syahirah Mokhtar
1440-1455	1A1 Biopesticides and Sustainable Agriculture in the Malaysian Horticultural Sector - The Need for a Policy Framework for Action Sivapragasam Annamalai (CAB International)	1B1 Imaging Techniques for Studying Plant-Pathogen Interactions: A Case Study on Tomato Fruits from the Biological Garden of Sokoto State University, Nigeria Adamu Abdullahi (Sokoto State University)	1C1 Effects of Burial Depth and Duration on Weedy Rice Seed Viability Muhamad Shakirin Mispan (Universiti Malaya)
1455-1510	1A2 Evaluation of <i>Metahizium anisopliae</i> (Metsch.) Sorokin as an Integral Component for the Control of the Coconut Rhinoceros Beetle, <i>Oryctes rhinoceros</i> L. in Papua New Guinea Luania Bob (PNG Biosecurity Authority)	1B2 Anthracnose Management in Malaysia: Field Evaluation of 100 g/L Florylpicoxamid (Adavelt™ active) for Cucurbit Crops Phoebe Chong Sok Leng (Corteva Agriscience Malaysia)	1C2 Optimising Post-Emergence Weed Control in High Rainfall Environments: Rainfastness Improvement of Glyphosate–Metsulfuron-Methyl via Sodium Chlorate Inclusion Abd Jabbar Bacho (SD Guthrie Research Sdn Bhd)
1510-1525	1A3 Sex-Specific Larval Stage Structure of <i>Tirathaba mundella</i> on Oil-Palm Inflorescences Elvintiran Balan Jalong (Universiti Sains Malaysia)	1B3 Temperature Stress Effect on Chlamydospore Germination Dynamics and Germ Tube Elongation of <i>Fusarium oxysporum</i> f. sp. <i>cubense</i> Tropical Race 4 Bello Sulaiman (Universiti Sains Malaysia)	1C3 Distribution and Dose Response of <i>Monochoria vaginalis</i> to Florypyrauxifen-benzyl (Loyant) in MADA Rice Fields, Malaysia Noor Atiqah Zulkifli (Universiti Putra Malaysia)

1525-1540	1A4 Establishing Local Barn Owl Population in Smallholder Plantations to Control Rat Pest Populations Mohamad Afif Farhan Adnan (Universiti Sains Malaysia)	1B4 Anti-oomycete Activity of Zinc Oxide Nanoparticles Against <i>Phytophthora capsici</i> and Associated Phytotoxicity in <i>Piper nigrum</i> Edward Khor Jun Yong (Universiti Malaysia Sarawak)	1C4 Assessment of Residual and Contact Herbicide Combinations for Legume Cover Crop Establishment in Immature Oil Palm Norhazela Shahbudin (SD Guthrie Research Sdn Bhd)
1540-1555	1A5 Distribution of Rice Stem Borer Species in Selected Rice Growing Areas Siti Wan Rasidah Abdullah (Universiti Putra Malaysia)	1B5 Identification of Endophytic <i>Fusarium</i> Species and Their Pathogenic Potential Causing Fruit Rot of Mango Fatin Fadhillah Mohd Kamaruddin (Universiti Sains Malaysia)	1C5 Pathogenic Ability of <i>Fusarium parceramosum</i> and <i>Colletotrichum</i> Species Isolated from Lawn Grass (<i>Axonopus compressus</i>) Nurul Farizah Azuddin (Universiti Sains Malaysia)
1555-1610	1A6 Effect of Foliar Application of Silicon against Rice Stem Borer and Leaf Folder Incidence in Rice Maisarah Mohamad Saad (Universiti Malaysia Terengganu)	1B6 Pathogenicity of <i>Fusarium</i> spp. Isolated from Soil and Mosses of Maritime Island, Antarctica and Penang Island, Malaysia on Rice Germination (<i>Oryza sativa</i>) Nik Mohd Izham Mohamed Nor (Universiti Sains Malaysia)	1C6 Development and Characterization of a New Tank-Mix Bioherbicide for Sustainable Weed Management Hasib Saif (Universiti Putra Malaysia)
1615-1645	Refreshment		
1645 -1800	MAPPS Annual General Meeting (For MAPPS members only) (Venue: Wembley Ballroom 2)		

THURSDAY (24 SEPTEMBER 2026)			
0830 - 0900	PLENARY II (Venue: Wembley Ballroom 2) <i>From Diagnosis to Impact: Advancing Plant Disease Research under Climate Change in Tropical Agriculture</i> Assoc. Prof. Dr. Buncha Chinnasri, Faculty of Agriculture, Kasetsart University, Thailand Chairperson: Assoc. Prof. Dr. Muhamad Shakirin Mispan		
0900 - 0910	PLATINUM SPONSOR SESSION		
0910 - 1030	FORUM SESSION (Venue: Wembley Ballroom 2) <i>Pesticide Regulatory Across Southeast Asian Countries: Shall We Standardised?</i> Panelists 1. Ts. Mohammad Nazrul Fahmi Abdul Rahim Deputy Director, Pesticide Control and Fertilizer Division, DOA, Malaysia 2. Ms. Siti Aminah Sudin R&D Manager, Hextar R&D International Sdn. Bhd. 3. Ms. Mayang Sari Marchainy SEA & Pakistan Regulatory & Stewardship Leader, Corteva Agriscience Indonesia Moderator: Assoc. Prof. Ts. Dr. Nur Azura Adam		
1030 - 1045	Tea Break		
	CONCURRENT SESSION 2		
	SESSION 2A PEST MANAGEMENT (WEMBLEY BALLROOM 2) Chairperson: Dr. Nur Athiqah Md Yusof	SESSION 2B PLANT DISEASE (WEMBLEY 7) Chairperson: Prof. Dr. Latiffah Zakaria	SESSION 2C BIOTECHNOLOGY AND CROP IMPROVEMENT (WEMBLEY 8) Chairperson: Dr. Sumaiyah Abdullah
1050-1105	2A1 Field Evaluation of Hexaflumuron 0.5% Termite Bait Dosage for <i>Coptotermes curvignathus</i>	2B1 Establishing a Robust DNA Extraction Workflow for Reliable ITS-Based Fungal Community Profiling of	2C1 From Molecular Validation to Transgenic Application: Leveraging RNAi Machinery for

	Management in Mature Oil Palm Plantation Muhammad Raiyan Akif Mohd Naspi (Corteva Agriscience Malaysia)	Circular Leaf Spot Disease in Rubber Nor Afiqah Maiden (Malaysian Rubber Board)	Enhancing Oil Palm Resistance Against <i>Ganoderma boninense</i> Lim Fook Hwa (Malaysian Palm Oil Board)
1105-1120	2A2 Comparative Transcriptomic and Co-expression Network Analyses Reveal Molecular Mechanisms of Insecticide Resistance in <i>Metisa plana</i> Nurhafizhoh Zainuddin (Malaysia Palm Oil Board)	2B2 <i>Endophytic Bacillus</i> spp. from <i>Hevea brasiliensis</i> as Potential Biocontrol Agents of Pestalotiopsis Leaf Fall Disease and Plant Growth Promoters Mohamad Malik Al-Adil Baharudin (Malaysian Rubber Board)	2C2 Effects of Light-emitting Diodes (LEDs) on Stomatal Ultrastructure, Leaf Morphology, and Genetic Stability in <i>Musa acuminata</i> cv. Red Banana Plants Bege Jonathan (Plateau State University)
1120-1135	2A3 Bioefficacy of <i>Mentha piperita</i> Essential Oil Against Neonate <i>Helicoverpa armigera</i> (Hübner) (Lepidoptera: Noctuidae) Larvae Deepika Chandila (University of Delhi)	2B3 Can Knowledge Exchange Enhance the Adoption of Silicon-Based Plant Disease Management? A KAP Assessment Siti Nordahliawate Mohamed Sidique (Universiti Malaysia Terengganu)	2C3 Rhamnolipid as an Antifungal Agent Against Rice Blast Fungus <i>Pyricularia oryzae</i> Izah Adlina Mohamad Shukri (Universiti Sains Malaysia)
1135-1150	2A4 Diversity, Temporal Abundance and Trophic Interactions of Insect Pests and Natural Enemies in Rice Ecosystems in Selangor, Malaysia Tapon Kumar Roy (Universiti Putra Malaysia)	2B4 Virome Analysis of Chili (<i>Capsicum</i> spp.) in Peninsular Malaysia Uncovers a Diverse Plant Virus Population Spanning 15 Genera Mohammed Magaji Tukur (Universiti Putra Malaysia)	2C4 Humic and Fulvic acid Biostimulants Mitigate Severe Drought Stress in Bok Choy (<i>Brassica rapa</i> subsp. <i>chinensis</i> (L.) Hanelt) Nik Nur Izzah Atirah Nek Ramlan (Universiti Putra Malaysia)

1150-1205	2A5 Nanoemulsion Formulation based on Geranium, <i>Pelargonium graveolens</i>, Essential Oil: Development and Bioefficacy Against <i>Spodoptera frugiperda</i> (Smith) (Lepidoptera: Noctuidae) Rupom Pathori (University of Delhi)	2B5 The Emergence of <i>Pantoea deleyi</i>: A New Pathogen of Bacterial Leaf Blight (BLB) Disease in Malaysia Nur Allya Muhamad Rizal (Universiti Teknologi MARA)	2C5 Fungal Diversity and Lignocellulose-Degrading Potential of Fungi Isolated from <i>Pleurotus pulmonarius</i> Spent Mushroom Substrate Siti Hamidah Radiyah Shiekh Mahmud (Universiti Putra Malaysia)
1205-1220	2A6 Ovicidal and Feeding Deterrent Activity of Citronellal, Citronellol, and Geraniol from <i>Cymbopogon winterianus</i> Essential Oil Against the Diamondback Moth, <i>Plutella xylostella</i> Nida (University of Delhi)	2B6 Biocontrol Potential of Actinomycetes Isolated from Wild Banana Rhizosphere in West Sumatra Against <i>Fusarium oxysporum</i> f. sp. <i>cubense</i> TR4 Vicilia Hellwa Chabelita (IPB University)	
1220-1245	POSTER JUDGING SESSION		
1245 - 1430	Lunch Break		
	CONCURRENT SESSION 3		
	SESSION 3A MONITORING & DIAGNOSTIC ADVANCEMENT/ PESTICIDE SCIENCE & TECHNOLOGY (WEMBLEY BALLROOM 2) Chairperson: Dr. Mohd Fuat Salbi	SESSION 3B PLANT DISEASE (WEMBLEY 7) Chairperson: Assoc. Prof. Dr. Syari Jamian	SESSION 3C VERTEBRATE & INVERTEBRATE PESTS (WEMBLEY 8) Chairperson: Dr. Wan Mohd Hafezul Wan Abdul Ghani
1430-1445	3A1 Mitochondrial Introgression Causes	3B1 Integrating SNP Genotyping and	3C1 Commercial Application of Intensive Response Baiting

	Misidentification in Molecular Diagnostics of the Oriental Fruit Fly (<i>Bactrocera dorsalis</i>) Species Complex Manabu Kamimura (Okinawa Prefectural Plant Protection Center)	Phenotypic Characterisation to Elucidate Virulence Patterns of <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> in Malaysia Kogeethavani Ramachandran (Malaysian Agricultural Research and Development Institute)	by using Chlorophacinone for Rat Management in Oil Palm Plantation Ariff Ateed Mohd Noh (FGV R&D Sdn Bhd)
1445-1500	3A2 Molluscicidal Activity of Pink Guava (<i>Psidium guajava</i> L.) Leaf Extract Against the Apple Snail in Rice Field Erwan Shah Shari (Malaysian Agricultural Research and Development Institute)	3B2 Biofilm Formation and Anti-Pythium Metabolite Production by the Antagonistic Bacterium <i>Oceanobacillus iheyensis</i> TRB7 Isolated from the Tomato Rhizosphere in Oman Velazhahan Rethinasamy (Sultan Qaboos University)	3C2 Diphacinone: A New First-Generation Anticoagulant Rodenticide for Sustainable Rat Management in Oil Palm Meor Badli Shah Ahmad Rafie (SD Guthrie Research Sdn Bhd)
1500-1515	3A3 Determination of the Residue Levels of Diafenthiuron in Chili Ngan Chai Keong (Malaysian Agricultural Research and Development Institute)	3B3 Investigation of Dieback Disease of Durian Caused by <i>Fusarium</i> Species Complex in Malaysia Mohd As'wad Abdul Wahab (Universiti Putra Malaysia)	3C3 Understanding Host Selection in Oil Palm Basal Stem Weevil <i>Sparganobasis subcruciata</i>: Insights into Olfactory Preferences Theo Rizqy Gunawan (Indonesia Oil Palm Research Institute)
1515-1530	3A4 Efficacy of a Novel Pyridyl Complex as a Sustainable Fungicide Against Postharvest <i>Botrytis cinerea</i> in Tomatoes	3B4 New Insights into <i>Fusarium</i>-Associated Coffee Fruit Rot Disease in Malaysia	3C4 Technical Evaluation of Multi-Bait, Multiple-Round Rodenticide Placement for Suppressing Severe <i>Rattus tiomanicus</i> Infestation in Oil Palm Fields

	Nur Sabrina Ahmad Azmi (International Islamic University Malaysia)	Tang XiaoQing (Universiti Sains Malaysia)	Mohamad Zuhair Zainal Abidin (SD Guthrie Research Sdn Bhd)
1530-1545	3A5 Development of Classification AI of Small Mammal Bones Extracted from Owl Pellets using Machine Learning Lay Wai Kean (Universiti Sains Malaysia)	3B5 Identification and Pathogenicity of <i>Fusarium</i> Species Causing Fruit Rot of Strawberry Liwei Geng (Universiti Sains Malaysia)	3C5 First Record of <i>Hycleus</i> sp. (Coleoptera: Meloidae) Damaging Jack Bean (<i>Canavalia ensiformis</i> DC.) Flowers in Indonesia Rahmat Agung Munggaran (IPB University)
1545-1600	3A6 Optimization of Rapid Diagnostic Method for Early Detection of <i>Pantoea ananatis</i> Causing Bacterial Leaf Blight Disease in Rice using Colometric Loop-Mediated Isothermal Amplification (cLAMP) Nur Hazwani Khairuddin (Universiti Putra Malaysia)	3B6 Actinomycetes from Bromeliaceae as Biological Control Agents for Heart Rot Disease (<i>Phytophthora nicotianae</i>) of Pineapple Milatul Umi Sahilah (IPB University)	3C6 Recent Status of Rat Infestation at Different Environment in Malaysia and Control Strategy: A Review Wan Muhamad Syauqi Wan Jusoh (Universiti Putra Malaysia)
1600 - 1630	Refreshment		
1940 - 2200	Gala Dinner and MAPPS Golden Jubilee Celebration Venue: Wembley Ballroom 2		
FRIDAY (25 SEPTEMBER 2026)			
0900 - 1400	Penang Excursions to Tropical Spice Garden and Penang Batik Factory		