

AGRICULTURE, BIOTECHNOLOGY & SUSTAINABILITY (ABS) CONFERENCE

WEDNESDAY, 20 NOVEMBER 2019

8.30 am **Welcome Remarks** by Dr. Mohamad Arif Abd Manaf
Chairperson of Agriculture, Biotechnology and Sustainability Conference

8.40 - 9.10 am Lead Paper LP1 **SESSION 1 – AGRICULTURE**
Title: Revolutionising Upstream Sector of Oil Palm Industry
Speaker: Director-General, MPOB, Malaysia
Chairperson: Dr. Carl Traeholt, Copenhagen Zoo, Denmark

SESSION 1A: STRENGTHENING UPSTREAM MANAGEMENT PRACTICES **Chairperson:** Mr. R. Thayaparanathan, Sime Darby Plantation Berhad, Malaysia

9.10 - 9.30 am A1 **Title:** Sustainability Practices of Integrated Approach for Management of *Ganoderma* and Major Insect Pests to Increase Oil Palm Productivity
Speaker: Idris Abu Seman, MPOB, Malaysia

9.30 - 9.50 am A2 **Title:** Mechanisation Option: To Optimise Productivity and Soil Fertility
Speaker: Patrick Ng Hong Chuan, Applied Agricultural Resources Sdn. Bhd., Malaysia

9.50 - 10.10 am A3 **Title:** How to Reach 10 Tons of Oil Per Hectare Per Year: Induction of High Oleic Oil Production from Parthenocarpic Fruits in Oil Palm OxG Interspecific Hybrids
Speaker: Hernán Mauricio Romero, Cenipalma, Colombia

10.10 - 10.30 am Discussion

10.30 - 11.00 am Refreshments/ Exhibition/ Poster Viewing

SESSION 1B: ENHANCING CROP BIOSECURITY AND INTEGRATED PEST MANAGEMENT (IPM) **Chairperson:** Dr. Norman Kamarudin, International Society of Oil Palm Agronomists, Malaysia

11.00 - 11.20 am A4 **Title:** Biosecurity Risk Management and Emergency Response Plan for the Malaysian Oil Palm Industry
Speaker: Mohd Hefni Rusli, MPOB, Malaysia

11.20 - 11.40 am A5 **Title:** Weevil Stem Borer and Mesocarp-eating Beetle: New Threat to Oil Palm Plantations in Indonesia
Speaker: Hari Priwiratama, Indonesian Oil Palm Research Institute, Indonesia

11.40 - 12.00 pm A6 **Title:** Management of Oil Palm Bunch Moth (*Tirathaba mundella* Walker) in Young Mature Oil Palm Planted on Peat
Speaker: Su Chong Ming, Sarawak Oil Palm Berhad, Malaysia

12.00 - 12.30 pm Discussion

12.30 - 2.00 pm Lunch

SESSION 1C: SYSTEMS AND TECHNOLOGICAL ADVANCEMENTS FOR PRODUCTIVITY **Chairperson:** Mr. Ho Shui Hing, United Plantations Berhad, Malaysia

2.00 - 2.20 pm A7 **Title:** Remote Sensing for Aerial Detection of *Ganoderma* Basal Stem Rot Disease and Bagworm Infestation in Oil Palm
Speaker: Mohamad Izzudin Anuar, MPOB, Malaysia

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2.20 - 2.40 pm	A8	Title: Precision Farming for Sustainable Agriculture Speaker: Siva Kumar Balasundram, Universiti Putra Malaysia, Malaysia
2.40 - 3.00 pm	A9	Title: Digital Image Recognition for Palm Counting Speaker: Mohd Firdaus Asari, Sime Darby Plantation Berhad, Malaysia
3.00 - 3.20 pm	Discussion	
3.20 - 3.50 pm	Refreshments/ Exhibition/ Poster Viewing	
3.50 - 4.20 pm	Lead Paper LP2	SESSION 2 – BIOTECHNOLOGY Title: Disruptive Technologies: Impact on Crop Improvement Speaker: Yang Chang-Hsien, National Chung Hsing University, Taiwan Chairperson: Dr. Ruslan Abdullah, Malaysian Palm Oil Council, Malaysia

SESSION 2A: SYNERGISING RESOURCES AND TECHNOLOGY FOR IMPROVED PRODUCTIVITY

Chairperson: Dr. Ruslan Abdullah, Malaysian Palm Oil Council, Malaysia

4.20 - 4.40 pm	A10	Title: Harnessing Data for Oil Palm Improvement Speaker: Zulkifli Yaakub, MPOB, Malaysia
4.40 - 5.00 pm	A11	Title: Advances in Oil Palm Genomic Selection Speaker: David Cros, CIRAD, France
5.00 - 5.20 pm	A12	Title: Nanotechnology Application in Detection of Oil Palm Diseases: DNA-Nanoparticle Conjugates as Convenient, Portable and Affordable <i>Ganoderma</i> Diagnostics Speaker: Wong Lu Shin, The University of Manchester, United Kingdom
5.20 - 5.40 pm	Discussion	

THURSDAY, 21 NOVEMBER 2019

SESSION 2B: ADVANCING SCIENCE, SHIFTING PARADIGMS

Chairperson: Dr. Rajinder Singh, MPOB, Malaysia

8.30 - 8.50 am	A13	Title: Challenges in the Application of SureSawit™ Shell Speaker: Leslie Ooi Cheng-Li, MPOB, Malaysia
8.50 - 9.10 am	A14	Title: Traceability-Blockchain Technology Speaker: Bridie Ohlsson, Geora Ltd., Australia
9.10 - 9.30 am	A15	Title: Designing and Executing Optimise Breeding Programme Speaker: Steven Tanksley, Cornell University, USA
9.30 - 9.50 am	Discussion	
9.50 - 10.20 am	Lead Paper LP3	SESSION 3 – SUSTAINABILITY Title: The Sustainability Pledge: Realising the Potential Speaker: Carl Traeholt, Copenhagen Zoo, Denmark Chairperson: Assoc. Prof. Dr. Khairuddin Idris, Universiti Putra Malaysia, Malaysia
10.20 - 10.50 am	Refreshments/ Exhibition/ Poster Viewing	
10.50 - 11.10 am	Prize Giving Session for Poster Presenters	

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SESSION 3A: ENSURING SUSTAINABLE PRACTICES IN OIL PALM MANAGEMENT

Chairperson: Assoc. Prof. Dr. Khairuddin Idris, Universiti Putra Malaysia, Malaysia

- 11.10 - 11.30 am A16 **Title:** The Role of Social Capital to Increase Productivity among Oil Palm Planters
Speaker: Abdul Razak Abdul Rahman, Universiti Putra Malaysia, Malaysia
- 11.30 - 11.50 am A17 **Title:** How Does MSP0 Benefit Wildlife Conservation
Speaker: Norfariza Mohd Khalid, PERHILITAN, Malaysia
- 11.50 - 12.10 pm A18 **Title:** Development of Sustainable Management of Leaf-eating Pests of South-East Asian Oil Palms - A Historical Perspective in Relation to Outbreak Causation
Speaker: Brian J Wood, Independent Consultant in Tropical Agricultural Research, United Kingdom
- 12.10 - 12.30 pm Discussion
- 12.30 - 2.00 pm Lunch

SESSION 3B: ENHANCING BIODIVERSITY AND GHG ISSUES IN OIL PALM

Chairperson: Assoc. Prof. Dr. Abdul Rahman Abdul Rahim, Universiti Teknologi MARA, Malaysia

- 2.00 - 2.20 pm A19 **Title:** Impact on Intergration of Cattle in Improving Bird Biodiversity
Speaker: Kamil Azmi Tohiran, MPOB, Malaysia
- 2.20 - 2.40 pm A20 **Title:** Responsible Management of Tropical Peatland
Speaker: Sim Siong Fong, Universiti Malaysia Sarawak, Malaysia
- 2.40 - 3.00 pm A21 **Title:** Microbial Biodiversity in Peatland for Ecosystem Functioning
Speaker: Kim Yrjälä, University of Helsinki, Finland
- 3.00 - 3.20 pm Discussion
- 3.20 - 3.50 pm Refreshments/ Exhibition/ Poster Viewing

SESSION 4 – ABS FORUM: Data and Technology Driving Change in the Oil Palm Industry

Moderator: Dr. Ruslan Abdullah (Malaysian Palm Oil Council, Malaysia)

- 3.50 - 5.20 pm **Scope:**
1. Addressing stagnant yields
 2. Technology adoption
- Panel Discussion:**
1. Mr. Teoh Cheng Hai (International Finance Corporation, Malaysia)
 2. Mr. Azizi Meor Ngah (Foodchain, Malaysia)
 3. TBC
- Forum Coordinator:** Dr. Meilina Ong Abdullah, MPOB, Malaysia
- 5.20 - 5.30 pm **Closing Remarks** by Dr. Mohamad Arif Abd Manaf
Chairperson of Agriculture, Biotechnology and Sustainability Conference

THE END