



<http://bit.ly/smartrice2019>

Registration Package:

A registration fee of RM100 (RM 50 for students) entitles delegates to the following:

- 1) A full attendance of 1-day workshop
- 2) Certificate and workshop materials
- 3) Lunches and refreshments

Registration and Payment Deadline:

01 August 2019

Smart Farming Technology Research Center

Department of Biological and Agricultural Engineering,
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<http://research.upm.edu.my/SMART>

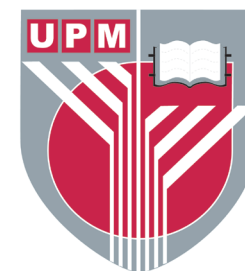
XIII SMART Farming Workshop: Crop Cultivation and Postharvest Technology

Postharvest Technology
Crop Cultivation and

29th August 2019

Dewan Seminar, Faculty of Engineering
Universiti Putra Malaysia

<http://conference.upm.edu.my/smartrice>



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BERILMU BERBAKTI



Introduction

The Department of Biological and Agricultural Engineering, Universiti Putra Malaysia (UPM) in partnership with the Smart Farming Technology Research Center (SFTRC) and the Malaysian Society of Agricultural Engineers (MSAE) will be hosting the SMART Farming Workshop for the thirteenth time. This year the workshop is focusing on smart technology in cultivation and postharvest.

A special session will include international speakers from Germany to share on advances in postharvest technology. Speakers from ATB, University of Potsdam and FrigorTec will share their research and experience in postharvest technologies during the workshop.

Smart Farming is a farming management concept using modern technology to increase the quantity and quality of agricultural products. The workshop addresses a wide spectrum of topics in recent agricultural engineering and technological development including issues, challenges, sustainable growth environment, appropriate mechanisation, smart cultivation practices, green and zero waste technology, GPS/GIS, soil scanning, data management, and Internet of Things technologies. By precisely measuring variations within a field and adapting the strategy accordingly, farmers can greatly increase the effectiveness of pesticides and fertilizers and use them more selectively. Smart technologies and analytics are transforming farming operations, making the industry more insight driven and efficient to feed the growing population.

The workshop is a platform for open dialogue and intense discussion between researchers, academics, engineers and growers. It is aimed to disseminate latest R&D findings by the Department of Biological & Agricultural Engineering in the paddy industry to the organization/person that has strong relationship in this field.



“Smart technologies and analytics are transforming farming operations, making the industry more insight driven and efficient”

Tentative Program

29 th Aug, Thursday	Topic and Speaker
08.00 –08.30	Registration
08.30 – 09.00	Opening Remarks: Siti Khairuniza Bejo, Head of Department, Biological and Agricultural Engineering, Universiti Putra Malaysia
09.00 –09.30	Remote Sensing in Paddy Cultivation Abdul Rashid Mohamed Shariff, Universiti Putra Malaysia
09.30 –10.00	Digitization in horticulture: Examples on how to implement sensors in the production process Manuela Zude-Sasse, ATB, Germany
10.00 –10.30	Coffee Break
10.30 –11.00	Technological development for System of Rice Intensification (SRI) in Malaysia Aimrun Wayayok, Universiti Putra Malaysia
11.00 –11.30	Sensors, technical innovations and modelling to improve storage conditions of perishables. Pramod Mahajan, ATB, Germany
11.30 –12.00	Mechanical Leaf Injury and its Effect on Quality and Shelf Life of Ready-to-Eat (RTE) Leafy Vegetables Siti Hajar Ariffin, Universiti Putra Malaysia
12.00 –12.30	Innovations in packaging technologies applied to fresh produce: An Engineering perspective. Graziele Grossi Bovi, ATB, Germany
12.30 –14.00	Lunch Break
14.00 –14.30	Nano-material and ultraviolet radiation-based photo-catalytic/photolytic system to remove ethylene in storage and transport of fresh produce. Namrata Pathak, ATB, Germany
14.30 –15.00	Optical technologies and its commercial application in agronomy. Roland Hass, University Potsdam, Germany
15.00 –15.30	Effect of the leaf/fruit ratio on fruit quality of sweet cherry. Martin Penzel, ATB, Germany
15.30 – 16.00	CA-technology and recent developments in ripening technology for fresh bananas and other fruits. Roland Wirth, FrigorTec, Germany
16.00-16.30	Technology transfer & networking in the field of postharvest supply chain of fresh produce. Christiane von Haselberg, ATB, Germany
17.00	Closing