

# OLEO AND SPECIALTY CHEMICALS (OSC) CONFERENCE

**WEDNESDAY, 20 NOVEMBER 2019**

8.30 - 8.40 am **Welcome Remarks** by Dr. Zainab Idris  
Chairperson of Oleo and Specialty Chemicals Conference

## SESSION 1 TITLE: SUSTAINABLE OLEOCHEMICAL DEVELOPMENT Chairperson: Dr. Yeong Shoot Kian, MPOB, Malaysia

- 8.40 - 9.10 am LP1 **SESSION 1**  
**Title:** Managing Advances and Breakthroughs in Oleochemicals for Sustainable Supply Chain  
**Speaker:** Zainab Idris, MPOB, Malaysia
- 
- 9.10 - 9.30 am OS1 **Title:** Microbial Biosurfactants: Current Trend and Future Applications in Relation to the Palm Oil Industries  
**Speaker:** Ibrahim Banat, University of Ulster, United Kingdom
- 
- 9.30 - 9.50 am OS2 **Title:** Sustainable Microbial Degradation of Palm Oil in Natural Seawater and Identification of Bacterial Consortium  
**Speaker:** Kesaven Bhubalan, Universiti Malaysia Terengganu, Malaysia
- 
- 9.50 - 10.10 am OS3 **Title:** Vision for a Palm Oleochemical Biorefinery  
**Speaker:** Patrick Foley, P2 Science, USA
- 
- 10.10 - 10.30 am Discussion
- 
- 10.30 - 11.00 am Refreshments/ Exhibition/ Poster Viewing

## SESSION 2A TITLE: GREENER PROCESSES AND MATERIALS Chairperson: Prof. Ibrahim Banat, University of Ulster, United Kingdom

- 11.00 - 11.30 am LP2 **SESSION 2**  
**Title:** Bio-based Surfactants: An Expanding Product Sector Ripe for Opportunities for Oil Palm  
**Speaker:** Douglas G. Hayes, University of Tennessee, USA
- 
- 11.30 - 11.50 am OS4 **Title:** Enzymatic Synthesis of Sugar Alcohol Esters as Non-Ionic Bio-based Surfactant  
**Speaker:** Arniza Mohd Zan, MPOB, Malaysia
- 
- 11.50 - 12.10 pm OS5 **Title:** Glycerol-mediated Synthesis of TiO<sub>2</sub> Photocatalyst  
**Speaker:** Chong Fai Kait, Universiti Teknologi Petronas, Malaysia
- 
- 12.10 - 12.30 pm Discussion
- 
- 12.30 - 2.00 pm Lunch

## SESSION 2B TITLE: GREENER PROCESSES AND MATERIALS Chairperson: Prof. Ibrahim Banat, University of Ulster, United Kingdom

- 2.00 - 2.20 pm OS6 **Title:** Thermoplastic Urethanes: Odd-Even Effect of Diol Chain Length of Azelate Polyols  
**Speaker:** Tuan Noor Maznee Tuan Ismail, MPOB, Malaysia

## OLEO & SPECIALTY CHEMICALS (OSC) CONFERENCE

2.20 - 2.40 pm	OS7	<b>Title:</b> Enhanced Biosurfactant Production and Exploitation - A Platform Approach <b>Speaker:</b> James Winterburn, Holiferm, Manchester, United Kingdom
2.40 - 3.00 pm	OS8	<b>Title:</b> A Perspective on Catalytic Conversion of Glycerol to Value Added Chemicals <b>Speaker:</b> Zaki Yamani Zakaria, Universiti Teknologi Malaysia, Malaysia
3.00 - 3.20 pm	Discussion	
3.20 - 3.50 pm	Refreshments/ Exhibition/ Poster Viewing	

### SESSION 3

#### TITLE: OLEOCHEMICALS FOR SUSTAINABLE CONSUMER PRODUCTS

**Chairperson:** Prof. Douglas G. Hayes, University of Tennessee, USA

3.50 - 4.20 pm	LP3	<b>SESSION 3</b> <b>Title:</b> Transformative Lubricants and Energy Storage Materials from Vegetable Oils <b>Speaker:</b> Suresh Narine, Trent University, Canada
4.20 - 4.40 pm	OS9	<b>Title:</b> Palm-based Microemulsion for Consumer Products <b>Speaker:</b> Ismail Ab. Rahman, MPOB, Malaysia
4.40 - 5.00 pm	OS10	<b>Title:</b> Sustainable Use of Palm Oil-based Surfactants for Detergents <b>Speaker:</b> Fumiya Niikura, Lion Corporation, Japan
5.00 - 5.20 pm	OS11	<b>Title:</b> Clinical Dermatology: Topical Application of Palm Tocotrienol Enhances Cutaneous Wound Healing in Diabetes <b>Speaker:</b> Zaizuhana Shahrim, MPOB, Malaysia
5.20 - 5.40 pm	Discussion	

## THURSDAY, 21 NOVEMBER 2019

### SESSION 4A

#### TITLE: CUTTING EDGE TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT

**Chairperson:** Mr. Abu Talib Abd Rahman, Lekir Energy Sdn. Bhd., Malaysia

8.30 - 9.00 am	LP4	<b>SESSION 4</b> <b>Title:</b> Novel Technology for Sustainable Oleochemical Industry <b>Speaker:</b> Taku Mimura, Kao, Japan
9.00 - 9.20 am	OS12	<b>Title:</b> Innovation in Surfactant <b>Speaker:</b> Sunil Bhagwat, Institute of Chemical Technology, India
9.20 - 9.40 am	OS13	<b>Title:</b> Development of Radiation Induced Fibrous Catalyst for Oleochemical Applications <b>Speaker:</b> Nor Hasimah Mohamed, Malaysian Nuclear Agency, Malaysia
9.40 - 10.00 am	OS14	<b>Title:</b> Leveraging Modelling for Palm Oil Conversion Profitability and Sustainability <b>Speaker:</b> Ron Beck, AspenTech, USA
10.00 - 10.20 am	Discussion	
10.20 - 10.50 am	Refreshments/ Exhibition/ Poster Viewing	

## OLEO & SPECIALTY CHEMICALS (OSC) CONFERENCE

### SESSION 4B

#### TITLE: CUTTING EDGE TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT

**Chairperson:** Mr. Abu Talib Abd Rahman, Lekir Energy Sdn. Bhd., Malaysia

10.50 - 11.10 am	OS15	<b>Title:</b> Dividing Wall Column for Fatty Acids Fractionation <b>Speaker:</b> Yang Quan, Sulzer, Singapore
11.10 - 11.30 am	OS16	<b>Title:</b> Glycerine to Epichlorohydrin Technology <b>Speaker:</b> Marc Manyeres, TechnipFMC, France
11.30 - 11.50 am	OS17	<b>Title:</b> Enzymes for Esterification and Hydrolysis at Industrial Scale <b>Speaker:</b> Hans Christian Holm, Novozymes, Denmark
11.50 - 12.10 pm	Discussion	
12.10 - 12.30 pm	Prize Giving Session for Poster Presenters	
12.30 - 2.00 pm	Lunch	

### OSC FORUM

#### BALANCING SUSTAINABILITY PILLARS FOR PALM OLEOCHEMICALS

**Moderator:** Prof. Paul Anastas, Yale University, USA

2.00 - 5.00 pm	<b>Panel Discussion:</b> 1. Mr. Cheng Yin Tiong (Lipidchem, Malaysia) 2. Mr. Abu Talib Abd Rahman (Lekir Energy Sdn. Bhd., Malaysia) 3. Mr. Neil A Burns (P2 Science, USA)
5.00 - 5.30 pm	<b>Closing Remarks</b> by Dr. Zainab Idris Chairperson of Oleo and Specialty Chemical Conference

THE END