

IChemE in Malaysia

Introduction to POPSIG















The patron of IChemE Malaysia



Her Royal Highness Queen of Perak Darul Ridzuan, Tuanku Zara Salim





Advancing chemical engineering worldwide

- More than 37,000 members based in 100 countries
- offices in Australia, New Zealand, Singapore,
 Malaysia and the UK
- leading accrediting body for university courses and company training
- publisher of The Chemical Engineer
- international events and training provider
- Award Chartered Chemical Engineer status
- Award Professional Process Safety Engineer status





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Palm Oil Processing Special Interest Group





Our sponsors



Excellence in Oleochemicals















Palm Oil Processing Special Interest Group (POPSIG)

- POPSIG was formed on 3rd
 August 2015 in Kuala Lumpur,
 Malaysia to provide a forum for
 the exchange of ideas, the
 sharing of experiences and
 encouraging innovation in the
 palm oil processing industry.
- Volunteers passionate about the palm oil industry & process engineering
- Not limited to chemical engineers









POPSIG objectives & activities

Objectives

- share and promote best practices
- encourage innovation in processing oil palm products
- promote professional aspects of the palm oil industry
- act as a focal point for all those interested in the process aspects of oil palm processing.

Activities

- technical seminars, workshops, site visits, webinars and physical evening talks
- quarterly newsletter
- yearly forum
- support for the annual IChemE Malaysia Palm Oil Industry Award







IChemE Palm Oil Industry Award

Year 2015 (Sponsored by KLK Oleo):



Palm oil olein yield improvement project'

Mr. Toh Seong Hin - Asst VP, Plantation Advisory - Refinery from Sime Darby Plantation Sdn Bhd. receiving the 1st Palm Oil Industry Award from Mr. Siew Fook Ming, Project Director of KLK Oleo.

Year 2016 (Sponsored by POPSIG):



Re-engineering current palm oil degumming process'

Muhammad Saiful Nidzam Ismail of Sime Darby Research Sdn Bhd - Senior chemical engineer in Oils & Fats Refinery Technical Advisory Services Units receiving the Palm Oil Industry Award from Hong Wai Onn, Chair of POPSIG.

Year 2017 (Sponsored by Sime Darby):



Novel integrated process for the extraction of phytonutrients and production of biodiesel from crude palm oil'

Chin Hui Ling and Lim Ching Yee from Excel-Vite Sdn. Bhd. receiving the Palm Oil Industry Award from Tuan Syed Said Syed Saggaf - Head of Sime Darby Biodiesel Sdn Bhd, Head of Sime Darby Kernel Crushing Plant, Head of Health & Wellness Business.

2018



'The Young Industrialist Award' Her Royal Highness Queen of Perak Darul Ridzuan, Tuanku Zara Salim, Royal Patron of IChemE in Malaysia presenting the award to Chew Chien Lye of Sime Darby Plantations. Looking on is Ir Dr Christina Phang.



The IChemE Palm Oil Industry Award 2018 sponsored for the second time by KLK Oleo. 'Heat Recovery Using Vent Economisers' Mr Siew Fook Ming, Project Director at KLK Oleo presented the certificate and trophy to Chong Tze Haw & Hassan Abas, IOI Edible Oils.







IChemE Palm Oil Industry Award 2019







Evening talks cum webinars



'Introduction to oleochemicals' by Ir K S Qua of AOMG. Participants included 30 auditors from Certifying Bodies of RSPO from 14 countries



'Revolution X.0 in the Palm Oil Industry' by Ir K S Qua of POPSIG at UMS in Kota Kinabalu, Sabah.





Evening talks cum webinars



'Oil Deodorising: New Technologies and Solutions to Improve Final Edible Oil Quality' by Mr Chia Ing Chuk of Desmet Ballestra (M) Sdn. Bhd.



'Extending Oleochemistry – Glycerin to Propylene Glycol and how Industry 4.0 enters Oleochemical Industry' by Mr. Fredrik Pomrehn, JJ-Lurgi Engineering Sdn. Bhd.





Regional Palm Oil Processing Seminar



2017: 100 Years Palm Oil Industry Seminar – "Can Malaysia continue to be the global technology leader in processing its Golden Crop?"





Speakers and committee members

2018: 2nd RPOPS – "Value addition in the Downstream Palm Oil sector."







Outreach

















Field visits



Jomalina Refinery



Emery Oleochemicals

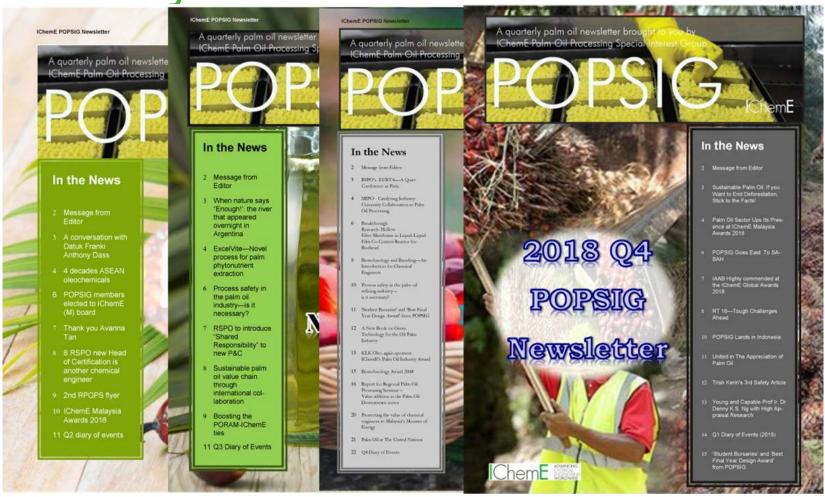


Ulu Kanchong Palm Oil Mill





Quarterly Newsletters







Best Final Year Design Award

- Each year, POPSIG awards Best Final Year Design Award to a group of final year students, whose final year project design revolves around palm oil processing
- The main objective of this award is to encourage the universities to introduce palm oil processing design for their final year students.
- The selection of Best Final Year Design Award is based upon a palm oil processing design which reflects on efficiency, values inherent safety and mitigates environmental impacts, and demonstrates project viability to the palm oil industry.
- The annual award is RM2000



2019 Best Final Year Design Award Malaysia - Japan International Institute of Technology (MJIIT), Universiti Teknologi Malaysia (UTM) "Biodiesel Production using Subcritical Water and Supercritical Methanol Treatment"





Student Bursaries

- Financial assistance in a form of student bursaries to undergraduate and postgraduate students to attend scientific conferences, workshops or forums which are related to palm oil processing
- The main objectives of such assistance are to spur the students' motivation and support their research in palm oil processing
- The student bursaries contribute towards the registration, travel and accommodation costs to help make the palm oil processing conferences or events more accessible to the students.
- Each bursary is worth RM1000



Zhang Hao is a third year chemical engineering undergraduate at Xiamen University Malaysia. Zhang Hao is from China. In 2018 China imported almost 2 million tonnes of palm oil making it the #3 country Malaysia exported to.

Zhang Hao is the first recipient of the POPSIG Student Bursary. He attended the Malaysian Oil Scientists' & Technologists' Association (MOSTA) practice workshop "Managing the Downstream Sector (including refining, quality control and eliminate undesired contaminants)" from 11-12th June 2019





Roadshow 2019/20

- 24 universities with chemical engineering
- Understanding palm oil



- Opportunities in the palm oil industry
- Involvement of Ministry of Primary Industries and palm oil industry employers





Roadshow 2019/20: 1st stop UTAR









Roadshow 2019/20: 2nd stop MUM

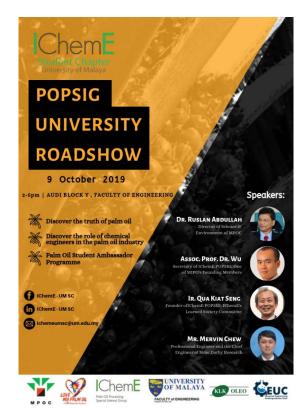








Roadshow 2019/20: 3rd stop UM

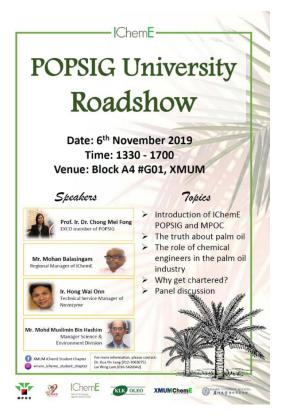








Roadshow 2019/20: 4th stop XMUM











Roadshow 2019/20: 5th stop UNM









Field visit during Roadshow 2019/20







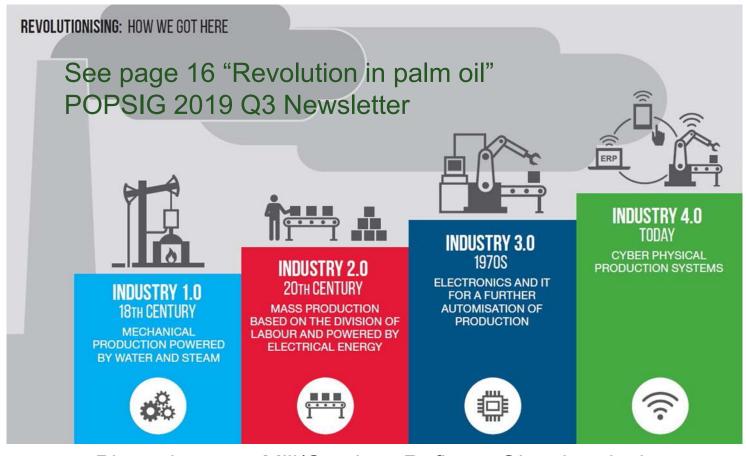
Roadshow schedule

Month	Date	University	
January	13th	UCSI	
February	19th	Universiti Kebangsaan Malaysia	
March		Heriot Watt University Malaysia	
April		Universiti Malaysia Pahang	
May		Taylor's University	





Industry 4.0 in the PO Industry





Mill/Crusher Refinery Oleochemicals







Thank you

www.icheme.org/membership/communities/special-interest-groups/palm-oil-processing-sig/

















