

1st Announcement



OFIC™ 2016

OILS AND FATS INTERNATIONAL CONGRESS 2016

AND

ISF 2016

INTERNATIONAL SOCIETY FOR FAT RESEARCH 2016

GLOBAL TRENDS IN OILS & FATS: PATHWAYS TO 2025

19-21 OCTOBER 2016

HOTEL ISTANA, KUALA LUMPUR
MALAYSIA

Organised By:



MOSTA

Malaysian Oil Scientists' and
Technologists' Association
www.mosta.org.my

In Collaboration with:



International Society for
Fat Research 2016



Malaysian Palm Oil Board
www.mpob.gov.my

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POMA

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Euro Fed Lipid



An Invitation

I am pleased to invite you to take part in the Oils and Fats International Congress 2016 (OFIC 2016). This is a very special event which includes ISF Oils and Fats Lecture Series, thus emphasising the wide scope of 17 Oils and Fats. The theme of the Congress has been selected as : **“Global Trends of Oils and Fats – Pathways to 2025”**. The five modules will cover all the 17 Oils and Fats under the following issues / aspects : Economics and Price Outlook, Global Trade Policies and Politics, Technology (Processing, Mechanisation & Robotics), Nutrition and Sustainability. The following speakers will be delivering the ISF Lectures Series:-

- Kaufmann Award Memorial Lecture by Prof Yang YueXin
- 16th Tan Sri Dato Seri B. Bek-Nielsen Foundation Lecture by Dato’ Carl Bek-Nielsen
- 4th Raja Alias Foundation Lecture by Dr Robert A. Martienssen
- 3rd Tun Dr Lim Keng Yaik Foundation Lecture by Mr Dorab Mistry

I hope you will agree with me that several important developments have emerged including palm oil being ranked first in term of production and export, role of phytonutrients in health and biomedical science, the structure of oils and fats and their nutritional attributes, genomic research on oil palms, life cycle analysis (LCA) of oils and fats, the potential of algae for food and energy. These are some of the developments which will have socio-economic impacts.

We anticipate that experts from various national associations of Oils and Fats (members of ISF) and members of AOCS will gather at OFIC 2016 to share their knowledge and expertise for a better world

Best Regards

Academician Emeritus Prof Tan Sri Datuk Dr Augustine S H Ong
President, MOSTA
Chairman, OFIC 2016 Organising Committee

About OFIC 2016



Oils and Fats international Congress series was launched by MOSTA in 1994 concurrently with an exhibition of latest available technology for the oils and fats industry. These events will focus on the major challenges faced by the oils and fats industry for possible solutions. The coverage of these issues is reflected in the synopses of the five modules.



Module 1 : Economics & Price Outlook

Chairperson : Mr. MR Chandran

In a globalised world, in which many economies are increasingly linked as a result of the removal of barriers to trade, investment and finance, problems in one country will inevitably affect others. The impact of the global crisis depends on the degree to which the countries are integrated into the global economy. So it is important to assess how exactly the shockwaves from the current crisis have travelled and what this means to the producers of oils and fats in the near and long term.

The current lower prices for crude oil and other strategic agricultural commodities like grains and oil seeds have intensified the slowdown in developing and emerging economies, many of which depend heavily on commodity export.

Population growth, rising incomes and globalisation of trade seem to provide ample opportunities for the oils and fats industry, but unfortunately challenges remain to destine palm oil as a low-price third world product.

Most of the challenges, though not new, are seemingly intractable:

- What is the future outlook for the oils and fats sector, now that commodities are experiencing the downturn of the cycle?
- As primary commodities only provide basic value, why has it been difficult to achieve real value-addition in downstream activities in palm oil? Should merger and acquisitions of traditional manufacturing concerns or new enterprises be emphasized for the future?
- The playing field for oils and fats has never been level as palm oil remains at a sizeable discount to soft oils. Can producing countries cooperate to institute their export tax regime and other policies so as to ascertain optimal prices for their commodities?
- With petroleum prices falling, the disturbing competition has been revived for synthetic oleochemicals. What would be the best strategies for natural oleochemical producers?
- Labour issues and the challenges confronting mechanisation have remained; therefore do these portend a supply constraint and higher prices in the future?
- It is always the traders with their algorithms and big computers that benefit from commodities including oils and fats. How can artificial intelligence and big data help the producers?

This module will assess the current state and future direction of the global oils and fats industry in the light of the present volatile markets and the environmental and social sustainability concerns.

Module 2 : Global Trade Policy and Politics

Chairperson : Ms Khor Yu Leng



While most food policy is initiated domestically, there are broad international ramifications. Globally, protectionist trade policies, international trade agreements, political flux and development aid are key influences on food policy. While there have been positive for palm oil demand including anti-transfats and the rise of biofuels there are ever shifting winds of change with food labelling concerns and voluntary policies for strong carbon thresholds (to counter deforestation) and against peat land replanting. There are political aspects to the production, inspection, regulation, distribution and consumption of palm oil; which may also be influenced by cultural, ethical, health and environmental disputes concerning appropriate farming, agricultural, processing and retailing methods and regulations. The last few decades have seen the growing power of transnational corporations. Broadly, food manufacturing and processing has become a heavily concentrated industry – a small number of players are responsible for a large percentage of the supply chain. More recently, the palm oil sector has become strongly engaged with the rapid rise of the transnational NGO movement led by WWF and Greenpeace.

Module 3 : Technology

Chairpersons : Dr. Harikrishnan and Dr. Goh Swee Hock



The palm oil industry contributes significantly to employment and revenues of Malaysia and Indonesia and palm oils compete globally with other oil crops, many of which are cultivated with government subsidies. The recent economic downturn has put pressure on prices of all oil commodities and additionally greater attention is needed to address sustainability and environmental issues. These will be covered in this module emphasizing on advances made in various



sectors – genomics, epigenomics, oil palm breeding, drones/sensors in plantation management, mechanization, processing advances for improved oil and phytonutrient recovery/quality, and the accompanying advances in analytical and detection techniques. These will ensure future oil palm productivity and sustainability, increasingly demanded by the growing global population and affluence.

Low prices will provide the incentive to replant old trees with better breeding materials which can double yields or additionally provide useful traits for plantations of tomorrow. With the publication of the oil palm genome sequence in 2013, the industry has a reference to conduct genetic diversity and discovery projects on their breeding populations. Plant breeding exploits variation in populations that are related to yield traits. Simple markers related to fruit form have been identified and pave the way to reduce costs associated with breeding trials. Genetic analysis such as linkage mapping and genome wide association analysis (GWAS) can be deployed on breeding populations in conjunction with phenotypic data to identify markers that are associated with more complex yield traits. New genetic selection technology such as genomic selection can be applied to make relevant crosses and predict their yield improvement. There is potential by utilizing such approaches to identify yield gaps to palm performance and to breed towards an ideal ideotypic palm. To fully utilize these genomic tools, rapid and efficient phenotyping is required. Current phenotyping methodologies are laborious and time consuming while the utilization of new camera based systems provide the means to identify potentially surrogate phenotypes for selection. These potentially can be linked to drone technology to provide an estate-wide analysis of phenotypes that have utility in estate management as well. With the recent breakthrough in identifying *KARMA* as the causal gene for mantling in tissue cultures by MPOB, early culling of defective plantlets will ensure success of large-scale clonal palms in future plantations. These new epigenetic tools in conjunction with genomic analysis could also be deployed to understand the impact of biotic and abiotic stresses on palms and facilitate closing of the gap between genetic potential and field performance. The readiness and utility of these technology platforms will be discussed

The application of drones combined with sensors and automated computing devices have simplified the management of large estates. Greater sophistication in the state of the art and science will be exhorted by the experts.

Upstream problems of harvesting and fruit transportation continue to receive attention as new innovations are being introduced. The interplay of the utilization of machines and tools versus man will come to an economic balance depending on the state of the present available technology.

Advances in processing technology come from various facets – in milling improvements in oil extraction and oil quality, in refining improvement of quality with lower side products and innovations to more downstream derivative products. With the recent FDA action against trans fats, palm oil has come into favour and processing and product formulations will need new innovations and with these come more and better value addition. The technology of hydrocarbon biofuels and aviation biofuels is of interest even as low petroleum prices has had a negative impact and the state of bioenergy will be reviewed.

Module 4 : Nutrition

Chairperson : Prof Tony Ng and Dr Kanga Rani Selvaduray



Without dietary fats, life would certainly be dull and tasteless. Yes, these major food components with a glycerol backbone and 3 fatty acid sidechains impart organoleptic properties and texture to foods which make every meal an enjoyable experience. Since these organic molecules play such an important part of our lives, it is important that we have updated and correct information about their effects on human health.



This Nutrition Module brings together both great and bright minds from around the globe to focus on the latest concerns and developments in the area of dietary fats and human health. Recent research findings shall be presented and reviewed, which would make this Nutrition Module a great learning and sharing experience. Traditional perceptions on the health impact of fat types shall be reexamined in the face of new evidence and misperceptions necessarily corrected.

This is a must attend nutrition session for academics, researchers, ministry of health policy makers and developers of national dietary guidelines, the food industry, and postgraduate students.

Module 5 : Sustainability

Chairperson : Dr. Yew Foong Kheong



More and more human activities are embracing sustainable practices. In fact, sustainability has become a buzzword. It is commonly taken to mean the ability to continue a defined behaviour indefinitely. Today, the word is used so often and sometimes, so loosely, in almost every sphere of human activity such that its meaning has broadened and become more diffused.

There is a continuous insatiable demand for food and energy in the world. In this respect, oils and fats play vital roles to meet these demands. Among the seventeen oils and fats in the world, palm oil, soya, rapeseed and sunflower are the four principal sources. They are used for many food and non-food applications. Of late they have also become important feedstocks for biofuels and renewable energy.

Ensuring environmental sustainability is needed in order to maintain sustainable production of oils and fats. The palm oil and soya industries are embracing sustainability. The palm oil industry has come up with several sustainability schemes such as Roundtable on Sustainable Palm Oil (RSPO), International Sustainability and Carbon Certification (ISCC), Malaysian Sustainable Palm Oil (MSPO) and Indonesian Sustainable Palm Oil (ISPO). The soya industry uses the Roundtable for Responsible Soy (RTRS). The other sources of oils and fats have yet to catch up.

The module will show how palm oil and soya industries, in particular, are managing sustainability and the challenges encountered. The module will also show where the newer concerns are with regard to sustainability in the production of oils and fats.

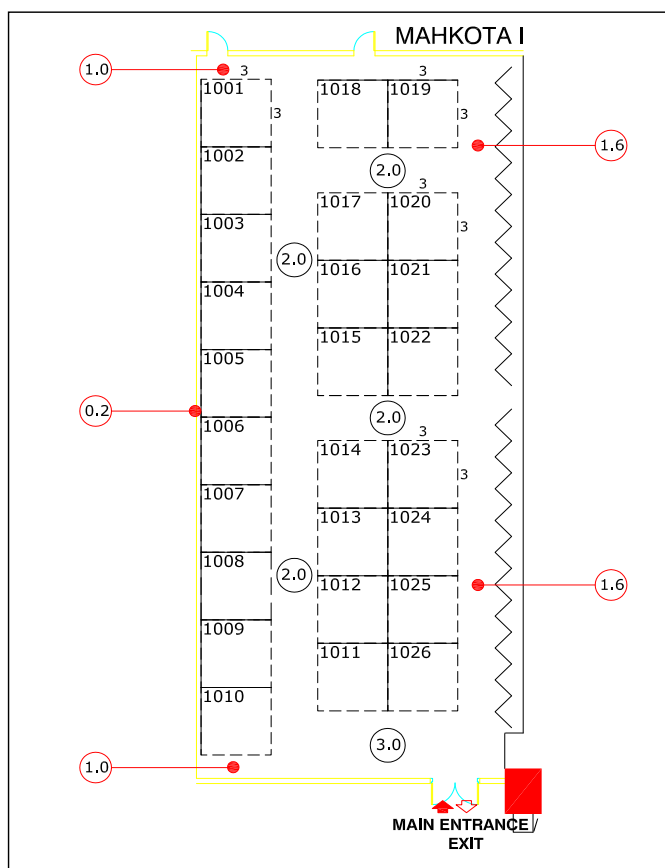
WHO SHOULD ATTEND OFIC 2016?

OFIC 2016 is designed for those involved in the oils and fats industry including the following :

- Industry Captains and CEOs
- Planters and Mill Engineers
- Refiners and Processors of Consumer Goods
- Biofuel Producers
- Quality Assurance Personnel and Process Engineers
- Academics and R & D Personnel
- Scientists and Technologists
- Traders, Analysts, Investors and Financiers
- Economists and Policy Makers
- Environmental and Social NGOs
- Government Agencies

MOSTA EXHIBITION & Conference 2016

19-21 October 2016
Mahkota I, Istana Hotel



Rates :

System Shell Scheme Booth of
3M x 3M (Mahkota 1)
only RM 10,000.00

System Shell Scheme Booth of
3M x 3M (Corner site)
only RM 12,000.00

*Special rate apply for MOSTA
members.*

Shell Scheme Price includes :
Space with fittings including side
and rear panels, lighting, power
point, name board, table and two
chairs.

**For further information, please
contact :**

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Website: <http://www.mosta.org.my>

CALL FOR POSTER PAPERS

Important date

- Abstract submission deadline : **31 May 2016**
- Acceptance notification : **31 July 2016**
- Poster setting up : **18 October 2016**

The **2016 Oils and Fats International Congress (OFIC)** will include a poster session to provide a platform for sharing of the latest research findings related to oils and fats in line with the theme of **Global Trends in Oils & Fats - Pathways to 2025**

The poster session enables presenters to share their research findings and innovations in order to obtain feedback through interaction with international audience.

The Organising Committee invites scientists, researchers, undergraduate and post graduate students to submit their abstract in English of not less than 400 words with the following format:

- Title of paper
- Author(s), Affiliation(s), Address, Country
- Email address and contact information of corresponding author
- Extended Abstract
- References

Abstract of the posters submitted to mosta.secretariat@gmail.com and chchuah@um.edu.my will be reviewed by the Organising Committee and notification of acceptance will be sent to corresponding author. Template of the abstract and poster can be obtained from the OFIC 2016 webpage at <http://www.mosta.org.my>.

Best Poster Award

A best poster award will be given to poster paper that shows high scientific quality and bring forward new ideas, concepts and innovations in addressing issues and challenges in the oils and fats industry.

GUIDELINES FOR POSTER PAPERS

1. The poster should be of A0 (84.1 cm x 118.9 cm) in size.
2. The poster should be clearly read at distance around 1 meter.
3. At the top of the poster, indicate the title and names of authors and organisations.
4. Include the following items on our display; introduction, objectives or goals of the study, methods, key results, discussion and conclusion, any acknowledgement of financial support for your research.
5. Graphic illustration such as figures, concise tables and photographs considered essential by the authors could be included.
6. Use tack-and-stick reusable adhesive, mounting tabs, or tape to attach your materials to the board.
7. Authors are required to be present at their poster board during the scheduled times to respond to questions.
8. Each poster will be displayed for the whole three days of the program. Poster viewing and informal discussions will take place during morning and afternoon breaks, as well as the lunch break.

REGISTRATION FORM

Please complete in Block letters/attach Business Card. This form may be duplicated for additional delegates.

1. DELEGATE'S INFORMATION

Full Name : _____ MOSTA Membership No: _____
(Please underline last name) (If any)

Title : _____ Designation : _____
(Mr/Ms/Dr/Prof/others)

Organisation : _____

Address : _____

_____ Email : _____

Tel : _____ Fax : _____

Please tick if vegetarian diet is required

2. REGISTRATION FEES

	Before 30 June 2016		After 30 June 2016		Total Amount (RM/USD)
	Local	Overseas	Local	Overseas	
Members	RM2,200	USD630	RM2,500	USD720	
Non-Members	RM2,500	USD720	RM2,800	USD800	
Additional Congress Dinner Tickets	RM300 (USD90)				
Students with Posters Presentation	RM800 (USD230)				
Registration Fee for delegate covers the following: Attendance at all OFIC 2016 technical sessions and admission to 2016 exhibition:					

REGISTRATION AND CANCELLATION CONDITIONS

1. Use a separate form for each delegate. Photocopies of this Form can also be used. Payments can be combined for more than one delegate when forms are sent in together.
2. Registration is not official and complete until full payment is received by the OFIC 2016 Secretariat. Confirmation of registration will be issued upon receipt of full payment.
3. Cancellation received prior to 30 June 2016, will be refunded in full less the Secretariat expenses of USD100/- for overseas participant and RM100/- for local participant. Cancellation received between 1 July 2016 and 31 August 2016 will receive a 50% refund. Cancellation received after 31 August 2016 will not be refunded except in the event of force majeure decided upon at the discretion of the OFIC 2016 Organising Committee. All requests for refund must be submitted to the OFIC 2016 Secretariat in writing. No refund will be issued until after the congress.

- Lunches and refreshments during OFIC 2016
- OFIC 2016 Congress Dinner
- Public Forum
- OFIC 2016 materials and documents
- OFIC 2016 Welcome Reception
- Technical Visit

3. MODE OF PAYMENT Please tick (✓) :

- Cheque / Banker's Draft made payable to "MOSTA"
(Cheque No:)
- Payment by Telegraph Transfer to "MOSTA" Account
(Please attach the advice slip of the remittance if paid by telegraphic transfer)
- Payment and Registration online www.mosta.org.my

Name of Account : MOSTA
 Account No : 512530-155068
 Swift Code : MBBEMYKL
 Name of Bank : Malayan Banking Berhad
 Address of Bank : 50-52, Jalan Sultan
 46200 Petaling Jaya,
 Selangor, Malaysia

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 Website: <http://www.mosta.org.my>
 (Contact Person : Ms. Michelle Lim)

.....
 Date

.....
 Signature

For office use only :

Date _____ / _____ / _____
 Amount : _____
 OR No : _____
 Reg. No : _____