

Transforming Technology, Driving Innovation

Prof. Dr. Yuko Ikeda
*"Rubber Vulcanization:
NEXT CENTURY
INSIGHTS"*



**Prof. Datuk Dr.
Ahmad Fauzi Ismail**
*"Sustainable Water
Management for the
Rubber Industry"*



Mr. Denis Low
*"State of the
Rubber Glove
Industry"*



Dr. Wava Truscott
*"Rubber Gloves:
WEAPONS OF WAR
vs. Untreatable
Infections"*



Dr. Alan Muhr
*"Rubber-to-Metal Bond:
ATTRIBUTES/
CHALLENGES"*



**Free
entrance to
exhibition
halls**

IRC **INTERNATIONAL RUBBER CONFERENCE**

4 - 6 September 2018

www.irc2018.com

KUALA LUMPUR CONVENTION CENTER

Organised by:



IRC 
International Rubber
Conference Organisation

In conjunction with:

9th IRGCE
International Rubber Glove
Conference & Exhibition
www.IRGCE.com

CHAIRMAN'S WELCOME

Selamat Datang ,welcome to the bustling, vibrant and sunny Malaysia, a major producer of natural Rubber and a wide spectrum of manufactured rubber products.

It has been a decade since Malaysia last hosted the International Rubber Conference (IRC2008), which was successfully organized by the Malaysia Rubber Board. I like to take this opportunity expressing our grateful thanks once again for their excellent effort in hosting the previous event. The baton of being a member of International Rubber Conference Organization (IRCO) has now been handed over to The Plastics & Rubber Institute Malaysia. PRIM evolved from the former Institute of Rubber Industry (IRI) and later PRI which subsequently merged with other professional bodies forming the current IOM3 headquartered in London.



PRIM is privileged to organise the coming IRC 2018 under the auspices of the IRCO which is an organisation of rubber associations worldwide which plan the calendar for the main international rubber conferences. PRIM exists to promote and enhance the practice of polymer science and technology through educational and related programs to fulfill the professional needs of both individual and industrial members. For almost 60 years since inception, PRIM has supported the rise of the Malaysian rubber industry to international importance.

IRC 2018 will be held in conjunction with the 9th International Rubber Glove Conference & Exhibition 2018, which is a must visit bi-annual event for the medical care, oral dental, food handling, laboratories and other industrial handling users. "Transforming Technology; Driving Innovation" is the common theme for both events to be held at the renowned Kuala Lumpur Convention Centre.

The upcoming IRC 2018 along with the 9th IRGCE will provide an excellent platform for rubber scientists, technologists, academicians and industrialists to share knowledge while exchanging idea, technology and latest research findings. We expect at least 200 papers and posters to be presented covering keys topics including Novelty in rubbers; Science & Technology, Environmental/Green Technology & Sustainability; latex products, tyres, engineering & automotive products, etc.

We look forward to your participation at the IRC 2018 and 9th IRGCE 2018 which we anticipate to be the largest rubber show in Malaysia.

P. K. Chan
Organising Chairman, IRC 2018.

About International Rubber Conference Organisation (IRCO)

The International Rubber Conference Organisation (IRCO) is an association of rubber societies around the world which plan the calendar for the main international rubber conferences. By careful selection of conference proposals and monitoring of events, the IRCO ensures that all conferences run by its member societies meet the very demanding requirements dictated by the IRCO and thus provide delegates with first-class conferences.



A main IRCO conference is held annually. In 2009 the IRCO Committee decided to re-introduce the RubberCon series, starting in 2011. This series provides for smaller, more specialised events, but still adhering to the high IRCO standards.

PRIM is Malaysia's official representative to IRCO.

PLENARY LECTURES

Prof. Dr. Yuko Ikeda, DIRECTOR, CENTER FOR RUBBER SCIENCE AND TECHNOLOGY, KYOTO INSTITUTE OF TECHNOLOGY.

“Prospective insights into vulcanization and reinforcement of rubber: Looking forward to the next century”

The chemistry of sulfur cross-linking and the reinforcement by filler are the two most important issues governing the vulcanizate properties of rubber. Even though various and lots of studies have been carried out to gain better understanding of the two, the findings are yet to enlighten rubber industry practitioners as well as rubber researchers. This keynote address will provide them with a modern insight on the two, which is effective in this century.



Mr Denis Low Jau Foo, PRESIDENT, MALAYSIAN RUBBER GLOVE MANUFACTURERS ASSOCIATION (MARGMA)

“State of the Rubber Glove Industry”

Mr. Low will share his valuable and experienced insights on the state of the Rubber Glove Industry; from its humble past to present day and the ever-changing future. His talk will encompass “World trend and Malaysia’s position, past, present and future”, “The state of the manufacturing/production, past, present and the future”, “The products, past present and the future”; and “Governmental and regulatory policies World-wide”.



Prof. Datuk Dr. Ahmad Fauzi Ismail, DEPUTY VICE-CHANCELLOR (RESEARCH AND INNOVATION), UNIVERSITI TEKNOLOGI MALAYSIA.

“Sustainable Water Management for the Rubber Industry”

Escalation of operating cost in processing and products manufacturing in the NR industry contributed by increased water tariff and the frequently interrupted supply of processing water, are resolved via treated wastewater recycling. In this Keynote Address the successful formula is the utilization of membrane separation process as the tertiary polishing process, which enables recycling of the treated wastewater. Attaining sustainability in water management in the rubber industry is discussed. The highlight is the reduction of 30% in the operating cost shown in a recent case-study done in a latex products manufacturing factory utilizing this technology.



Dr. Alan Muhr, ENGINEERING RESEARCH & DESIGN, TUN ABDUL RAZAK RESEARCH CENTRE (TARRC)

“Rubber-to-metal bonded components: attributes and challenges”

Based on 35 years of research aimed towards the design principles of rubber engineering components, the talk will address the remarkable attributes of rubber-metal composites. But their success has not been without serious challenges in manufacture. Engineers exploit the attributes of rubber-metal composites in a wide variety of environments and mechanical load conditions, each of which poses a challenge to achieve a satisfactory service life. The presentation will analyse these challenges, illustrated with examples from the field and the results of research.



Dr. Wava Truscott, PRESIDENT OF TRUSCOTT MEDSCI ASSOCIATES

“Gloves as Weapons of War in the Fight against Untreatable Infections”

Over the last 8 decades, we have grown to accept antibiotics as “magic bullets” against infection as fundamental components of medical treatment. Unfortunately, that is not going to continue to be the case.

This lecture will focus the current state of antibiotic resistance, our vulnerable aging population, their impact on infection rates and severity, how this affects near-future glove demands and the urgent need for infection prevention solutions.



EVENTS

INTERNATIONAL RUBBER CONFERENCE 2018 (IRC 2018)

IRC 2018 “Transforming Technology, Driving Innovation” will be expecting 150 oral presentations and 50 posters to be presented on topics highly relevant to the rubber industry in general. There will be a high mixture of international and local speakers presenting.

IRC2018 will be conducted in English.

EXHIBITION

The exhibition is now one of the world’s largest exhibition of rubber related products with exhibition space of 10,000sq.m accommodating over 500 exhibition booths. The exhibition has expanded greatly to include exhibitors from the latex industry, dry rubber sector and their supporting sectors. As at Feb 2018, 136 companies from 13 countries have confirmed their participation in the exhibition - taking up over 80% of the available booths. The exhibitors will be showcasing their latest product innovations and technologies. **Exhibition hall is open to all delegates and visitors.**

9th INTERNATIONAL RUBBER GLOVE CONFERENCE AND EXHIBITION 2018 (9th IRGCE 2018)

The Conference will review, analyze, and provide critical information on the latest trends and development of the rubber glove industry covering innovations, regulations and standards, productivity and competitiveness.

Leading R&D personnel, standards and regulatory experts, industry analysts and market players will present relevant technical / professional papers on the dynamic glove industry.

About 1000 participants and delegates are expected at this event, which will create an opportunity for all players and stakeholders in the glove and related industries to interact and to foster closer rapport.

MALAYSIAN RUBBER BOARD TECHNICAL WORKSHOPS (3 Sept 2018)

One-day MRB workshop for IRC 2018 is to create an interactive clinic discussion (A5 program platform) and presentation platform to discuss issue and challenges related to the midstream and downstream sector of rubber industries.

NATIONAL SYMPOSIUM OF POLYMERIC MATERIALS 2018 (NSPM2018)

The NSPM 2018 is the premier national symposium that brings together postgraduates students, academicians, and researchers to exchange the frontier research results in the new technologies in the topics of Advanced Polymer Processing, Polymers Characterization, Engineering Materials research, Rubber and Latex Technologies and an opportunity to establish multilateral collaborations. The papers submitted to NSPM 2018 will be reviewed by technical committees of the conferences. All accepted and registered papers will be published in the Journal of Rubber Research (SCOPUS Indexed).

CAREER TALKS

Rubber industry practitioners will talk about career opportunities to invited student for universities and institutes of higher learning.

SOCIAL PROGRAM

Social programs are planned. Detailed will be announced on our website.

Visit **www.irc2018.com** for more information and registration for each event

SCHEDULE AT A GLANCE

	Mon, 3 Sept 2018	Tue, 4 Sept 2018	Wed, 5 Sept 2018	Thu, 6 Sept 2018
AM	REGISTRATION & MRB TECHNICAL WORKSHOP	REGISTRATION	TECHNICAL SESSIONS Exhibition Student Posters Career Talks	TECHNICAL SESSIONS NSPM 2018 Exhibition Student Posters Career Talks
		Opening Ceremony VIP Tour of Exhibition Hall		
After Lunch		PLENARY LECTURES & Exhibition		
EVENING		CONFERENCE DINNER	IRCO COMMITTEE MEETING (TENTATIVE)	

CONFERENCE TOPICS

- i. Rubber Biotechnology & Upstream
- ii. Materials Science for Rubber Application
- iii. New Polymer Synthesis
- iv. Modern Rubber Processing Technology
- v. Novelty in Rubber
- vi. Rubber Applications
- vii. Rubber Products
- viii. Rubber Engineering
- ix. Test Method and Standards Development
- x. Standards, Specification and Quality Control
- xi. Rubber Techno-economics
- xii. Rubber Marketing and Pricing
- xiii. Sustainability
- xiv. Environmental Management
- xv. Safety & Health.

CALL FOR PAPERS

Abstract Deadline:
Extended to April 15, 2018

Paper Acceptance Notice:
1 month from abstract date
submission

Full Papers Due:
May 31, 2018

Presentations Due:
August 20, 2018

IRC 2018 FEES FOR SPEAKERS AND ATTENDEES

Registration Option and Rates	Early Bird Extended To 31 July 2018	Advance Before 31 Aug 2018	Onsite
MALAYSIAN DELEGATES*			
Conference Only	RM1,800	RM2,000	RM2,200
Conference with Conference Dinner	RM2,000	RM2,200	RM2,400
FOREIGN DELEGATES			
Conference Only	USD 600	USD 650	USD 700
Conference with Conference Dinner	USD 650	USD 700	USD 750
MALAYSIAN STUDENTS* (proof of study at a recognised institute of higher learning required)			
Conference Only	RM1,000	RM1,200	RM1,400
Conference with Conference Dinner	RM1,200	RM1,400	RM1,600
FOREIGN STUDENTS (proof of study at a recognised institute of higher learning required)			
Conference Only	USD 250	USD 300	USD 350
Conference with Conference Dinner	USD 300	USD 350	USD 400

GST 6% WILL BE IMPOSED ON THE TOTAL FEE

*Malaysian refers to delegates with a Malaysian identity card or under employment of a Malaysian registered company.

Accompanying persons attending the conference will be required to register as a full delegate. The appropriate fees and taxes will be applicable.

DELEGATES FEE ENTITLEMENT

- Full access to IRC 2018
- Full access to exhibition
- Full access to 9th IRGCE 2018
- Full access to NSPM 2018
- Full access to Career Fair
- Conference lunch and tea
- Conference bag
- Conference program and proceedings



Registration for MRB Technical Workshop, NSPM and 9th IRGCE are separate. Please visit our website for more information.

PLEASE VISIT www.irc2018.com FOR REGISTRATION AND PAYMENT INFORMATION

GETTING HERE

By Air

Kuala Lumpur International Airport (KLIA) is a major hub serviced by a number of the most popular airlines.

From South East Asia: 1 - 3 hrs

From Greater Asia (China, Japan, Korea etc): 5 - 7 hrs

From Europe & N.America: 10 - 15 hrs



By Road

If you are in a taxi or a chauffeured car, approach the Centre along Jalan Pinang and turn left into the Main Entrance (second turn after the Mandarin Oriental Hotel) for drop off.

If you are driving, here are your parking options:

- Take the first left after the Mandarin Oriental Hotel from Jalan Pinang up the ramp to access the car park at the Centre's basement.

- Park at the KLCC Suria car park and exit to the Concourse level Centre Court. Make your way past Cold Storage to the Guardian Pharmacy where there is a covered walkway through to the Centre. Take the elevator to the Ground Floor where you will be directed to the Registration area.



Photo credit: <http://klccconventioncentre.com>

By Train

Take the Light Rail Transit (LRT), **Kelana Jaya Line to the KLCC Station**. Turn left after exiting the turnstiles and walk through the Suria KLCC shopping centre Concourse level to the Centre Court. Turn left and make your way past Cold Storage to the Guardian Pharmacy where there is a covered walkway through to the Centre. Take the elevator to the Ground Floor where you will be directed to the Registration area.

On Foot

From the Suria KLCC shopping centre's Concourse Level Centre Court, make your way past Cold Storage to the Guardian Pharmacy where there is a covered walkway through to the Centre. Take the elevator to the Ground Level of the Centre where you will be directed to the Registration area.

The Centre is also accessible for delegates and visitors via the air-conditioned Bukit Bintang-KLCC Link Bridge. The link bridge features entrance/exit at the Pavilion Mall (Bukit Bintang), Wisma Cosway, Jalan Perak and the Impiana KLCC Hotel with convenient exit escalators and staircases) located at the main entrance to the Centre. This air-conditioned link allows delegates and visitors to travel conveniently, comfortably and safely on foot.

MAPS AND FURTHER INFORMATION AVAILABLE ON OUR WEBSITE
www.irc2018.com



IRC2018 Kuala Lumpur

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Visit our conference website regularly for the latest program updates and more detailed information.

In collaboration with:

