

PESTCRAFT

Newsletter of the Singapore Pest Management Association

FAOPMA – Pest Summit 2017



This year saw the inaugural launch of FAOPMA–Pest Summit, a merger of the FAOPMA (Federation of Asian & Oceania Pest Managers Associations) Conference and the Pest Summit Series. This integrated event was held from 22 to 24 November 2017 in Chang Mai, Thailand. There were nearly 1500 participants from 35 countries, with 70 exhibitors showcasing the latest products and technology in the industry. Singapore had a strong presence with nearly 90 participants at this event.

The focus of FAOPMA – Pest Summit 2017 was on “New Perspectives in Urban and Public Health IPM” and experts in this field from all over the world, such as Professor Chow Yang Lee, Processor Faith Oi and Dr Bobby Corrigan) shared their insights on this topic. A number of speakers also focused on the important, yet often unseen role that pest control plays in public health, and protecting property.



Organizing Chairman, Mr Suchart Leelayouthytin.



Opening ceremony of FAOPMA – Pest Summit 2017.



SPMA council members together with representatives from NEA and SAF.



Nearly 1500 participants from 35 countries attended the event.



There were 70 exhibitors showcasing the latest products and technology in the industry.



Keynote Speaker Prof. Dr. Chow-Yang Lee from Universiti Sains Malaysia.

EMPOWERING BUSINESSES WITH SOLUTIONS FOR GROWTH

Career Guidance & Professional Development

e2i Master Classes

- Attend our master classes and seminars to gain knowledge from industry experts and be updated on latest developments

Industry Skills Upgrading Courses

- Receive funding on industry related courses to boost workers' efficiency at work.

Job Matching

Career Fairs & Professional Search

- Providing a platform to reach out to potential talents

Place-and-Train Programmes (PnT)

- Customised structured training programme to help you recruit skilled workers

Company Partnership

Grants

- Receive up to 50% funding for your productivity projects
- Receive up to \$300,000 when you create physically easier, safer and smarter jobs for local, mature workers aged 50 and above
- Receive up to \$20,000 when you adopt progressive age management practices

Customised Training Initiatives

- Work with us to customise training for your workers to increase their knowledge and strengthen their competencies.
- Retrenchment Support

Contact our e2i officers for more information!



6474 0606



www.e2i.com.sg

e2i west

Devan Nair Institute for
Employment and Employability
80 Jurong East St 21, Level 2
Singapore 609607

e2i central

HDB Hub Bizthree
490 Lorong 6 Toa Payoh, #07-11 (Lift Lobby 1)
Singapore 310490

Operating Hours

Monday to Friday
9:00 am - 5:00 pm

Saturday
9:00 am - 1:00 pm

Sunday & Public Holiday: Closed

Interesting Sharings from the Speakers at FAOPMA-Pest Summit 2017

(extracted from the articles presented by the speakers)



"There are numerous challenges and issues confronting pest management industry and vector control, especially in Asia. Essentially, the challenges can be divided into 5 aspects, namely business (M&A and high operating cost), technical aspects (training, licensing, IPM and new construction concept), pest dispersal and adaptation (insecticide resistance and the emergence of new disease) and human resources (millennial attitude)."



PROF. DR. CHOW-YANG LEE

In 'Present Challenges and Issues Confronting the Pest Management Industry and Vector Control in Asia.'

"The modern pest manager is an applied biologist, entomologist, ecologist, and chemist with business acumen and a bit of legal/regulatory knowledge rolled into one person. With all that is required to be successful, it is important to know why we do pest management."

By understanding what the world would look like without pest control and understanding the historical significance of pest management, the future of the industry can be assured through continued research, training and education."



PROF. DR. FAITH OI

In 'What the World Would Be like Without Pest Management.'

"In the future, the future of less toxic pesticides and so-called 'greener' approaches to pest control will continue to increase in popularity. It is the challenge of the industry, regulatory agencies and university to fund and develop effective and economical alternatives."

PROF. DR. MICHAEL RUST

In 'Principles of Urban IPM.'



"Since the late 1990s, chemical manufacturers have been producing bait formulations that are very effective for German cockroaches control. These bait formulations use a variety of novel active ingredients, so they are effective in locations where spray formulations no longer function."

PROF. DR. DINI MILLER

In 'German Cockroaches: Effective Management of Large Infestations.'

"NEA hopes to use *Wolbachia* technology to complement its existing vector control efforts. A successful *Wolbachia*-*Aedes* control technology would become an additional tool in the fight against not just dengue, but also other diseases transmitted by *Aedes aegypti* such as Zika, chikungunya and yellow fever."

DR. CHRISTINA LIEW

In 'Community Engagement for Wolbachia – a New Technology.'

"Dengue, Chikungunya and recently Zika have been an increasing threat to human health in the tropics and sub tropics. Despite progress and development, no commercially available multi-valent vaccine is available. Although, synthetic pyrethroids have been claimed as alternative and promising compounds for vector control program, a burden of dengue and Zika is still unpredictable. IPM through the use of various techniques i.e. mechanical, chemical and biological methods, including larval habitat through community participation seems to be the most potential means in reducing the transmission."

PROF. DR. THEERAPHAP CHAREONVIRIYAPHAP

In 'IPM Against Dengue and Zika Vectors in Thailand.'

"Over the last 20 years, the world has experienced an unprecedented (and unexpected) resurgence in bed bug infestations from both the Common (*Cimex lectularius* L.) and Tropical (*Cimex hemipterus* F.) species. In response to the resurgence, Australia implemented a three point strategy to combat the rise of this public health pest. This included the development of an industry standard that promote 'best practice' in bed bug control, education of stakeholders in 'best practice', and research to evolve 'best practice'."

DR. STEPHEN DOGGETT

In 'IPM and Bed Bug Control: the Importance of an Industry Standard.'

"Preventing and controlling mice and rats in food factories, warehouses and manufacturing plants can vary according to the location and the type of facility. Nevertheless, rodents are among the most significant of all pests in the food and warehousing factories. Factories and plants are subject to varying levels of "rodent pressure" depending on several factors. As a result, factories and plants must be unrelenting in their rodent control programs. These programs include: 1) rodent exclusion of all doors and penetrations through the walls, roofs and foundations; 2) sanitation programs with an emphasis on hard to reach cleaning areas and attention to unnecessary clutter and, 3) rodent prevention and elimination programs via a formal monitoring of the premises and surrounding grounds."

Dr Bobby Corrigan

In 'Rodent IPM in Factories, Manufacturing Plants and Warehouses.'





We create chemistry

An Innovative Solution for Rodent Control

Selontra[®] Rodenticide Bait, a new, highly effective, non-anticoagulant bait (non-AVK) based on a naturally occurring active ingredient that helps to achieve complete control of rodent infestations three times faster than conventional anticoagulant rodenticides.

www.basf.com



Success by the numbers.

3x	Controls infestations in as little as seven days — three times faster than most anticoagulant baits
100%	Controls 100% of rodents—even highly-resistant rats and mice species
30%	Stop-feed technology controls rodents using 30% less bait while reducing waste
4x	Selontra [®] rodenticide bait is four times more palatable than most rodenticides and 13.2 times more than maize silage
<	Lower acute toxicity to birds, resulting in a much lower risk of secondary, non-target poisoning
-18° C	Withstands bitterly cold climates as low as -18° Celsius
77° C	In extreme hot, humid environments, Selontra [®] rodenticide bait does not melt, seep or spoil like many other rodenticides
3	Suitable for three different applications: burrows, fence lines, and bait stations

Public Hygiene Council (PHC)

On 3rd October 2017, Honorary Secretary Ms Sharon Kee, Assistant Honorary Secretary Mr Noh Bin Mohd and Council Member Nicole Zycinski – Singh represented SPMA at the 'Keep Clean, Singapore!' Partners' Appreciation and Networking Reception which was hosted by the Public Hygiene Council (PHC).

SPMA were also recognised by the PHC for our participation in the 'Keep Clean, Singapore!' litter picking activity that was organised by the SPMA earlier in the year. Ms Kee, who is also a Council Member of the PHC has been a driving force in the partnership between PHC and SPMA and going forward we will continue doing our part in improving cleanliness and hygiene standards in Singapore.



SPMA Council members with Ms Wong Li Lin (centre), Executive Director of PHC.

Appreciation Movie Night for SPMA Members

On 2nd November 2017, SPMA organised an appreciation night for all our members by renting out a cinema at Golden Village Vivo City. Members each received 2 tickets to "Thor: Ragnarok" and were also treated to drinks and popcorn. Nearly 100 people joined us for this action-packed film that saw Thor and Loki join forces to stop their evil sister Hela from destroying Asgard.

This event was not only an opportunity for our members to mingle and network in an informal setting, but also gave SPMA the chance to express gratitude to our members, without whom we would not have such a thriving association.

We were also pleasantly surprised that some potential members also joined us to get to know the association! If you know of any company in the pest control industry or related services that would be interested in joining the SPMA, do let us know!



Let's take a picture before the movie start!



Great turnout at the movie night!

Visit from the National Taiwan University

SPMA was proud to welcome Professor Emeritus Hsu Err-Lieh from the Department of Entomology National Taiwan University who led a team of specialists from the Toxic and Chemical Substance Bureau, Environmental Protection Administration as well as their associates from the Environment Resource & Information Co. Ltd to Singapore on 6th November 2017.

SPMA was represented by several members at this meeting which was held at the office of Anticimex in Singapore. Our President, Mr Andrew Chan, together with our Honorary Treasurer, Ms Sheryl Ang briefed our delegates on the 'SPMA Story and Pest Management Industry in Singapore'. This was followed by the brief introduction of 'Smart - The Modern Solution for Rodent Control' by Dr Foo from Anticimex.

The meeting was an opportunity for an excellent exchange of ideas and information concerning legislation governing pest management in each country, as well as challenges faced by the industry. The meeting ended with a lunch hosted by SPMA.



It was a great sharing session with our visitors from Taiwan.



Introduction of some of the modern solution for rodent control.

Olyset Pro

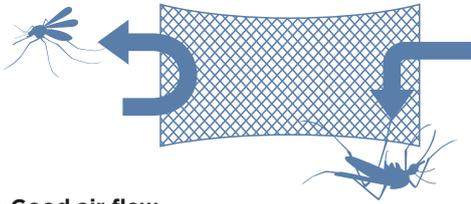
Japanese Long Lasting Solution



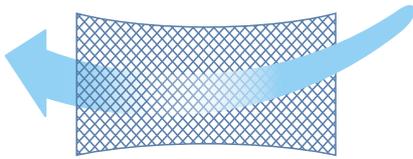
User Benefit

Prevention of insect contamination and invasion

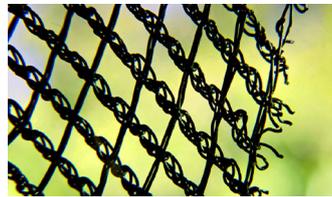
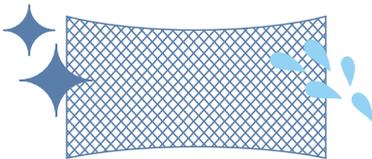
- Kills and repels various insects



- Good air flow



- Washable & No re-treatment



Product Features

Safety

Same material used in bed nets safely used by everyone even babies

Long lasting performance

Constantly replenishing the surface available active ingredient of insecticide from the internal reservoir

Product Specification

Category	
Active Ingredient	Permethrin 2% w/w (+/- 0.5% w/w)
Odour	Odourless
Colour	Black, grey and white
Application	Curtain, window and door screen, pallet cover, duct cover/filter
Packaging	Roll (1.5m X 25m)

Key facts

- Repel, kill and prevent mosquito from biting
- All round protection
- Controlled release technology
- Durable and long-lasting (Insecticidal activity up to three years)
- Prevention of insect contamination
- Washable
- Efficacy tested on other insects (Ants, Chironomid Midge, Diamond Back Moth, House Fly, Leafhopper, Moth Fly, Planthopper, Red Flour Beetle, Rice Weevil, Stink Bug, Termites, Webbing Clothes Moth)



News from Around the World

Welcome to the second edition of this column in Pestcraft. In this edition, we bring you stories from India, Madagascar and the US. Happy reading!



Plague in Madagascar

The east African island of Madagascar was battling a plague epidemic from 1 August through 22 November 2017. The Ministry of Health of Madagascar reported more than 2,300 cases of plague, with over 200 fatalities.

While Madagascar battles plague outbreaks every year, this year was more serious as it saw the predominate spread of the pneumonic plague, which is the most dangerous and contagious form of plague. Pneumonic plague is contagious and spread by coughing. When left untreated, a person will typically die within 24 hours of disease onset¹.

Besides spreading from human to human, pneumonic plague typically may also occur if a person with bubonic or septicemic plague is untreated and the bacteria spread to the lungs. The bubonic plague occurs when an infected flea bites a person. This type of plague is usually the most common form of plague in Madagascar².

Fortunately, the plague has been controlled by the Ministry of Health of Madagascar and the World Health Organisation. Amongst ways to control the spread of the plague, the control of rodents and other vectors that carry plague bacteria is very important.

A Mosquito Repellent Phone in India?

Technology in pest management is evolving very quickly and as the use of pesticides is scrutinised more closely, alternative sources of pest management need to be developed. South Korean phone manufacturer LG recently launched in India the LG K7i, which claims to be the world's first mosquito-repellent smartphone³.

This technology works by ultrasonic sound waves being emitted from a mesh grid on the back of the phone which can ward off mosquitoes and other pests, but are inaudible to humans. It is also not the first LG product to have mosquito repellent technology, as the company has previously introduced air conditioners and TVs with such technology⁴.

LG claims that tests show the phone managed to repel 72 per cent of mosquitoes on the average, but this has been challenged by scientists globally. Until such here is common consensus on the success of this technology, the usual precautions should be taken to control mosquito breeding by removing possible stagnant water sources and maintaining regular pest control.



Fire Ants in Texas

Summer through to autumn is usually hurricane season in the USA. This year was no different with Hurricane Harvey causing upheaval and disorder in Texas and Florida. Whilst pest infestations of rodents and cockroaches are common following the wake of natural disasters, South Texas experienced an unprecedented invasion of fire ants that appeared as rust coloured mounds.

Ants are communal creatures. When the water forced them from underground, they stuck together to survive, linking their claws and clinging to one another in massive balls that floated up⁵.

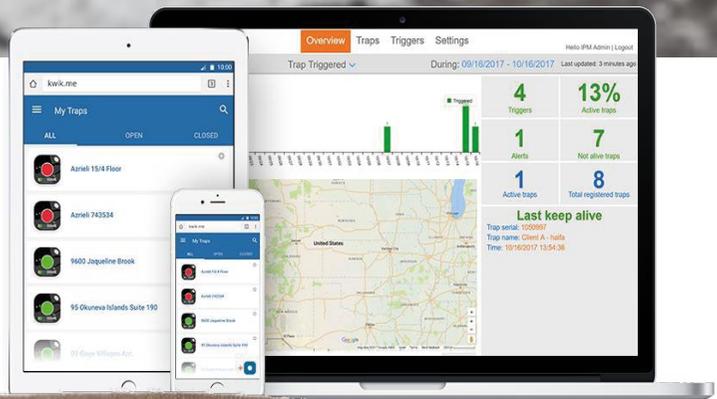
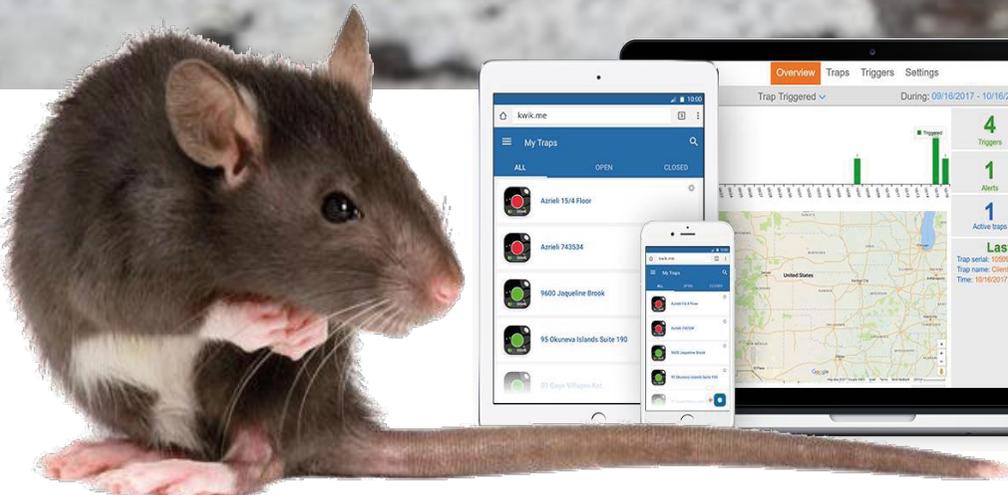
Fire ants are notorious because not only can they cause significant structural damage to pavements, buildings and electrics, but their venom is also harmful to humans. A human bitten by a fire ant can develop allergies to the venom and most victims experience intense burning and swelling which may then form into boils that stay for several days. However, some people may suffer from anaphylaxis, which can be fatal if left untreated. Common symptoms include dizziness, chest pain, nausea, severe sweating, low blood pressure, loss of breath, and slurred speech.

1 <https://www.vox.com/health-care/2017/11/17/16669932/madagascar-plague-epidemic>
 2 <https://emergency.cdc.gov/agent/plague/factsheet.asp>
 3 <http://www.asiaone.com/asia/lg-launches-worlds-first-mosquito-repellent-phone-india-does-it-work>

4 <http://money.cnn.com/2017/09/28/technology/smartphone-mosquito-lg-k7i/index.html>
 5 <https://www.nytimes.com/2017/08/30/us/fire-ants-harvey-hurricane-storm.html>



WHEN FUTURE MEETS RODENT PEST



Contact us
for more information

+65 6841 2986

sales@bentzjaz.com



SPMA New Members



PEST-PRO MANAGEMENT PTE LTD

Pest-Pro is honoured to be part of the SPMA family and look forward to gaining insight on the industries best practices. We are 9 years old and provide Pest Management across all sectors from Construction Sites to Food Manufacturing Plants.

PEST-PRO MANAGEMENT PTE.LTD.

No.31 WOODLANDS CLOSE #08-15
WOODLANDS HORIZON BUILDING
SINGAPORE 737855
T: 6300-8385 F:65696466 M: 91690055



Island Pest Management has almost 10 years presence in the local market, serving and providing a full range of quality pest control services to Residential Units, Management Corporation Strata Estates, Food and Beverages Businesses, Construction Sites, Government Related/Owned Buildings etc. We decided to become a part of the SPMA family in order to explore new ways of pest management and to gain invaluable knowledge by working closely with the association.

ISLAND PEST MANAGEMENT PTE LTD

7030 Ang Mo Kio Ave 5
#09-10 NorthStar @ AMK
Singapore 569880
T: (+65) 6542 2883 F: (+65) 6542 2402 M: (+65) 8127 5381



Absolve Pest Control (APC) was founded in 2015 and is supported by a group of highly devoted and customer oriented professional technicians. Within less than 2 years in the industry, we serve 100+ restaurant outlets, 30+ production plants, and numerous house owners. SPMA offer courses and seminars to keep their members up to date on the latest industry innovations, research and trends. Staying informed on our industry's trends will not only help us in the long run, but also maintain our technicians' knowledge and skills.

ABSOLVE PEST CONTROL PTE LTD

3 Soon Lee Street
#04-12, Pioneer Junction
Singapore 627606
T: 69011105 F: 65674061 M: 93364940



WEISHEN

Weishen Industrial Services Pte Ltd has been established since 1993 with a vision to provide solutions in the specialized field of Environmental Management. Weishen Pest Management Division was set up in 2001 to complete our range of environmental services. 16 years in pest control services. We provide Pest Management services to Commercial, Industrial, Residential, Schools and other Institutions, Town Council, domestic premises and F&B outlets. Our objective to join SPMA is to move forward together with SPMA in the same direction, at the same time to have the first hand info from the authority (NEA) or SPMA.

WEISHEN INDUSTRIAL SERVICES PTE LTD

31 Bukit Batok Crescent
#01-06, The Splendour,
Singapore 658070
T: 67332055 F: 76332655 M: 96889811

INC PEST MANAGEMENT PTE LTD

Your preferred partner in pest management

Inc Pest Management was set up in July 2015. We do all the pests for residential, commercial, F&B and Factories.

INC PEST MANAGEMENT PTE LTD

316 Tanglin Road
#02-01,
Singapore 247978
T: 61006266 M: 98791653



PESTOLOGY PTE LTD

116 Jurong East St 13
#19-394,
Singapore 600116
T: 68973353 M: 93832871

GOLDBELL ENGINEERING PTE LTD

18 Tuas Avenue 10
Singapore 639192
T: 64942974, 68640668

BOOKS SALE

S/N	Book Titles*	Original Price	Price after discount
1	Guide to Urban Pest Ants of Singapore (7 copies left)	\$15	\$12
2	Urban Pest Control (4 copies left)	\$20	\$16
3	Pest Cockroaches of Singapore (Soft cover with Prof. Dr. Lee Chow-Yang autograph)	NIL	\$25
4	Pest Cockroaches of Singapore (Hard Cover)	NIL	\$22.5
5	Pest Cockroaches of Singapore (Soft Cover)	\$25	\$20
6	Identification Key to Adult Pest Cockroaches of Singapore	\$5	FOC with purchase of Pest Cockroaches of Singapore
7	Do you have bed bugs?	\$10	\$8
8	Safe Practices for Pest Management (Video)	\$30	\$24
9	Termites of Singapore	\$40	\$32

To place order, please email contactus@spma.org.sg



For more information, please contact:

Singapore Pest Management Association

Jurong Point Post Office P.O. Box 115 Singapore 916404 • Tel: +65 9001 3190 Fax: +65 6565 8197 • Email: contactus@spma.org.sg