

# PestLink

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## PRESIDENT'S MESSAGE



Dear Beloved Members of PCAM,

Happy Afternoon!! Wishing all of you a Very Happy Brand New Year 2014! Together let us welcome 2014 with warm hearts filled with aspirations for a Bigger, Better and Brighter year ahead. I would also like to say Kong Xi Fat Choy to all Chinese member.

Firstly, I would like to say "Ribuan Ribuan Terima Kasih" to all of you for the support extended to me and all the Executive members of PCAM. I would like to put on record my sincere appreciation to all of you for your continual support to make the Association an organization that we all can be proud of. I promise to fulfill my commitments to developing and promoting PCAM as well as the pest management profession and industry in Malaysia.

In starting my presidency term for term 2013-2015, it is already 8 months and we have put numerous efforts together with the EXCO. Without the willing support and encouragement from our Members, we would not have achieved the many things we set out to do. Over the past 8 months, lots of activities and training have been carried out and conducted. Below is the summary of activities:

1. The PCAM 19th AGM - 30th April 2013
2. PCAM Annual Dinner - 18th May 2013
3. Biology & Identification of Termites Associated with Structure & Landscape
4. 1st Asian President Meeting - 19th July 2013
5. Bed Bug Seminar & Launching Pest Summit 2014 - 10th September 2013
6. Presentation Skills Coaching - 25th September 2013
7. PAL/APAL Training - 22nd & 23rd October 2013
8. Fumigation Course - 7th - 9th November 2013
9. Interview with BERNAMA - 4th December 2013
10. Kolokium Leptospirosis 2013
11. FAOPMA Convention 2013 - November 26-28, 2013 in Seoul, Korea
12. FAOPMA AGM - November 25, 2013 in Seoul, Korea
13. FAOPMA 26th Convention 2015 - Penang, Malaysia

In January 2014, we will kick start our preparation of our Pest Summit 2014 by having our 2nd Asean President Meeting to be held in Penang Evergreen Hotel on 8th January 2014. We will be launching our official web site of Pest Summit 2014.

As our VP of Communication En Faizal Mohd Yusof advises us, to close ranks and work hand in hand for the betterment of the Industries in his message on Pestlink Issue 31. Yes I totally agree with Faizal and I call upon All Exco and Beloved Members to forgive forget and move forward with the right and positive attitude of readiness to serve better and work as a "Team" for the glory of our Association, our Country, especially PCAM will be hosting the Pest Summit 2014 from 3rd to 5th September 2014.

We want to make this Pest Summit 2014, the best, the most brilliant and the biggest. We need and look forward for your excellent support in participating and also get involved in the summit. We are also celebrating PCAM's 20th Year Anniversary and we expect to bring in 1000 participants and 500 have to come from Malaysia.

We really look forward for your full support as well to the Pest Summit 2014. Please sign up for the EARLY BIRD Offer. Once again I sincerely thank all of you for your confidence in me and the Executive Committee Team to lead PCAM to the next level of success. Thank you for your continual support and we are ever more determined to improve ourselves to serve you better.

Once again Happy, Happy Brand New Year 2014!

Johnny J.L. Ooi  
President PCAM 2013-15

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## FROM THE EDITOR'S DESK

Assalamualaikum and salam satu Malaysia.  
Fellow members of PCAM,

Alhamdulillah, we have passed through the year 2013. I hope that the challenges in the year 2013 have given us enough experience and matured us in preparing our journey and future in the pest control industry for 2014. As for the PCAM, we have successfully organized many programs which benefited our members.

Many more to come for the year 2014, our beloved President, Mr Johnny Oii wishes to increase the number of membership and had planned several membership drive programs in order to promote our Association to the fraternity.

What is the significant of being a member of PCAM? Personally I am in the opinion that being a member of PCAM is an establishment to you or your company. An establishment to the authorities and to the society that we are serious people and organization ready to serve and to commit professionally on pest management services. Yes, professional is the key word. We need members with professional attitude towards the industry. It is not only about gaining big bucks but also being responsible to the society, to the environment and to the nation. Therefore, PCAM stands as the platform on providing trainings, information and championing all relevant issues pertaining to the industry. We are committed to work hand in hand with the relevant authorities on many issues and challenges related to the industry.

PCAM is ready for 2014 when we have planned many quality programs for the members. Please keep in your diary the PEST SUMMIT 2014 on the 3rd – 5th September 2014. To keep our Association and our nation proud, we need your support and participation from all parties, especially from members of PCAM. PCAM needs you and your support.

By the way, our Annual General Meeting is around the corner, we need your attendance for the Annual General Meeting as it is the best platform for members to share ideas for the benefit of our Association. On behalf of the Committee, I would like to wish "HAPPY 2014" AND "GONG XI FA CHAI" and may harmony and prosperity will always be on our side in the future.

FAIZAL MOHD YUSOF  
Vice President (Communications)



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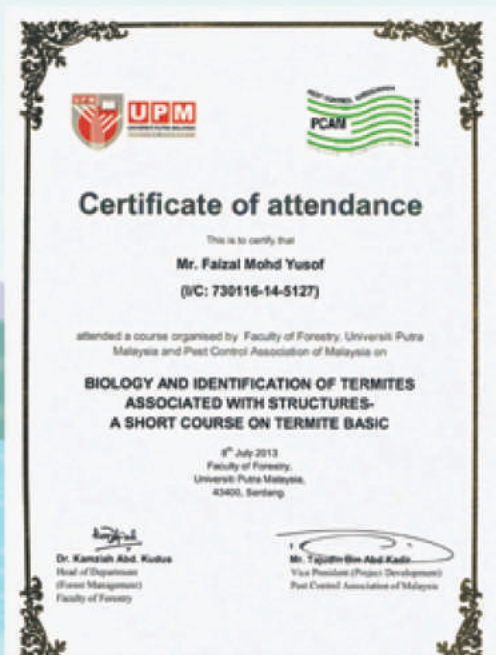
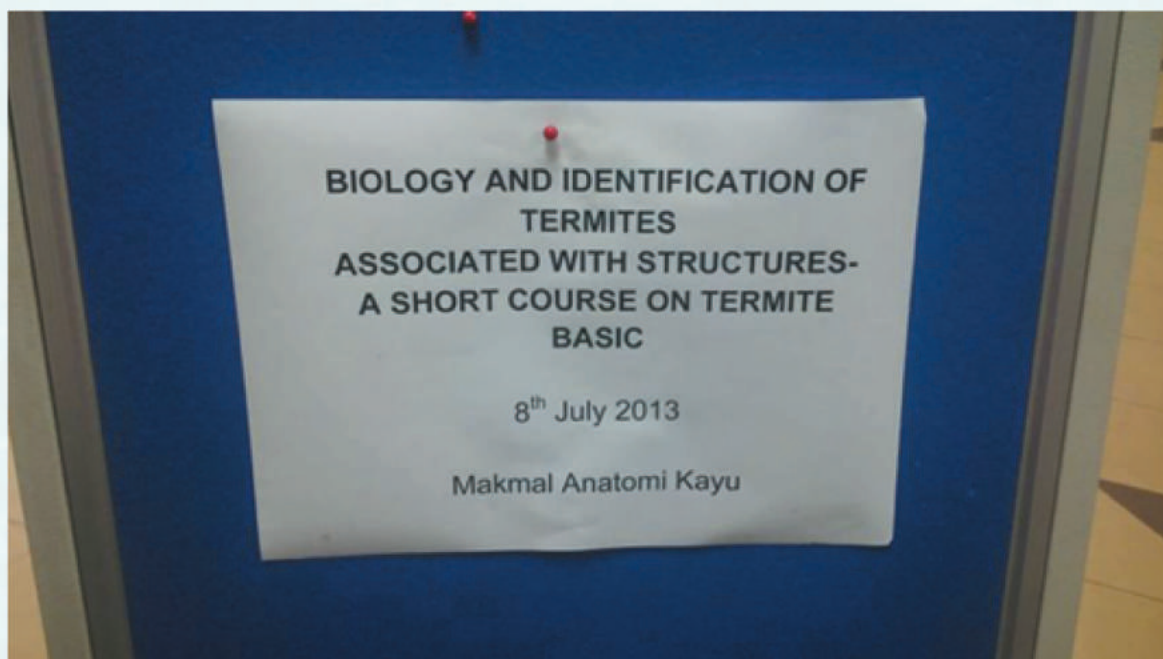
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**Biology & Identification Of Termites Associated With Structure And Landscape**  
**8 July 2013**





**Beg Bug Seminar/Launching Pest Summit 2014**  
**10 September 2013**





Presentation Skills Coaching  
25 September 2013



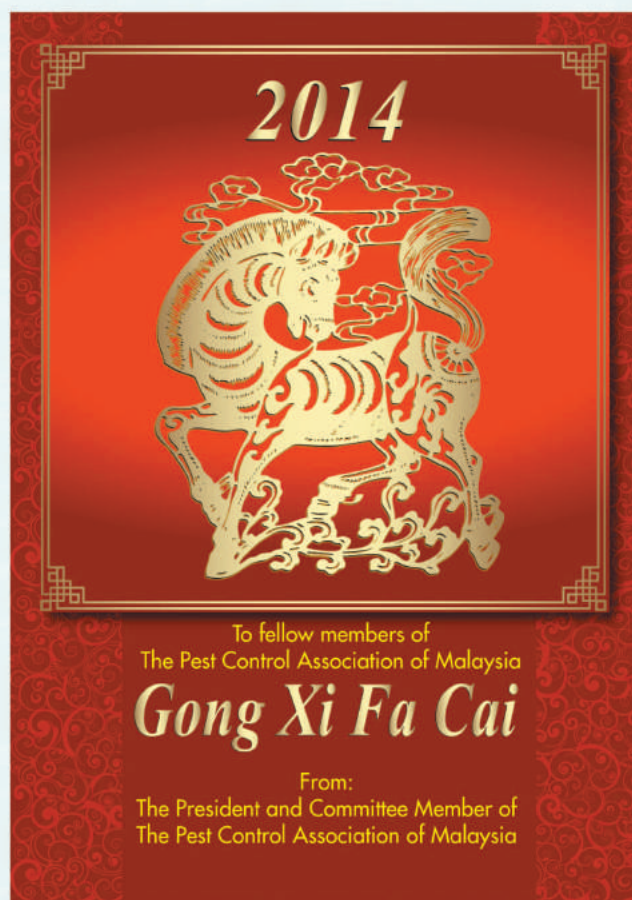
PAL/ APAL Training  
22 & 23 October 2013





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Interview With Bernama  
4 December 2013



Congratulations



Date: 26 November 2013  
Seoul, Korea

Congratulations to Mr. Raymond Lee for being elected as the Vice President of FAOPMA.  
PCAM wishes you all the best in your future undertaking.

Takziah

Tarikh: 4 Februari 2014

# AL-FATIHAH

Takziah kepada Naib Presiden PCAM - Bahagian Projek, En. Tajuddin Bin Abdul Kadir atas pemergian ke Rahmatullah Ibu beliau yang tercinta, Allahyarhamah Aisha Bibi Binti Mohd Meransah pada hari ini. Al-Fatihah, semoga rohnya ditempatkan bersama-sama para solihin.



## Bed Bugs, the Little Menace

by  
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Fig. 1: Direct force feed on fore arm



Fig. 2: Bed bugs having blood meal



Fig. 3: Fully engorged bed bug



Fig. 4: Bed bugs artificial feeding device



Photo: Copyright© of Dr. Abdul Hafiz Ab Majid

The return of bed bugs is a very serious problem for some of us. The sudden resurgence of bed bugs due to insecticide resistance. As we switched from one group of insecticide to another group, these bugs have developed resistance towards insecticides. For the past 20- 40 years ago, the bugs could be controlled at lower levels across the world using various classes of insecticides such as chlorinated hydrocarbons (DDT, Chlordane, Lindane), organophosphates (Malathion and Dischlorvos) and carbamates (Bendiocarb, Carbaryl) and synthetic pyrethroids (cyhalothrin, bifenthrin, deltamethrin, and permethrin) (Davies et al., 2012).

The first indicator sign may be bite marks on skin or rashes. Once the bed bugs population stabled and established, a faint musty sweetish odor will developed in the surrounding area. Faecal matter may be detected on the sheets as a dark brownish color spots. By lifting up the edges and seams of the mattress and run a thin piece of plastic through the joints of the colt and discovered tiny translucent white spots that are the eggs and or perhaps brownish mini crawlies. The infestation can be very serious.

Our research laboratory has collected a few bed bugs sample from several locations in Malaysia. Currently we have cultured and maintained bed bugs colonies. To maintain the bed bugs colonies in the laboratory are quite challenging, as they need a consistent blood supply to stay alive. One of the



Bed bug faecal stain on bed

## Bed Bugs, the Little Menace

Photo: Copyright© of Dr. Abdul Hafiz Ab Majid



Fig. 5: 2-3 hours after feeding



Fig. 6: 1 – 2 days after feeding



Fig. 7: 3 – 4 days after feeding

## USM Bed Bugs Research Team



From Left: Dr. Abdul Hafiz Ab Majid,  
Mr. Abd Hafis Abd Rahim, Ms. Zulaikha Zahran

easiest methods to maintain bed bugs colonies in the laboratory are direct feeding on the forearm (Fig. 1, 2 & 3). Second method, using artificial feeding device, took quite a while before the method can work properly. In this study we used expired human blood from the blood bank. The key point to use this method is to maintain the hot water bath at the right human body temperature around 37°C. We observed less success using this approach to maintain the colony survival (Fig.4).

Using direct feeding on the fore arm can cause some skin reaction. Depend on individual; some might have irritation skin reactions on the bite that can cause rash and not due to allergic reaction to something. The rash may be grouped in a line, which shows the pattern of the insect feeding. Bumps tend to be redder in the following day and might take several days before it fade away. To further understand the bed bug bitten reaction, we have recorded the time interval for the skin reaction to develop after force feed on the fore arm. From the observation, first few red bumps will appear 2-3 hours after force feed (Fig. 5). Tingling sensation will developed too on the skin. After 2 days, the rashes will appear clearly (Fig. 6). After 3 days, the rashes will get more severd (Fig. 7). Depend on individual; the rashes will eventually disappear after one week, if you can discipline yourself from scratching the rashes. Maintaining environment humidity and temperature is very important to maintain the colony survival. We maintain the temperature around 25-29°C, with relative humidity around 65-70%. Temperature above 30°C will lead to the bed bugs to die. We also observed, with high humidity above 75%, fungus will start to grow on their abdomen that can cause death. Currently our lab furthering our studies on the level of insecticide resistance on Malaysian bed bugs population.

### Reference

Davies, T.G.E., Field, L.M., Williamson. 2012. The re-emergence of the bed bug as a nuisance pest: implications of resistance to the pyrethroid insecticides. *Med Vet Entomol.* 26 (3) :241-254.

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10 December 2013



25th FAOPMA Convention & Exhibition 2013  
26 - 28 November 2013



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27 December 2013

Dear PCAM member,

Greetings from The Pest Control Association of Malaysia.

We are pleased to announce that The Pest Control Association of Malaysia (PCAM) is in the midst of organising the Pest Summit 2014 to be held from 3 ~ 5 Sep, 2014 at Sunway Resort Hotel & Spa. The theme is Sustainable Pest Management in a Borderless Globalized World.

To commemorate this occasion, we have produced Pest Summit 2014 t-shirt – long and short sleeves. These t-shirts in which depicted below are now ready for you to purchase at the given price:

Short Sleeve : RM 35.00 (Material – Lacoste)

Long Sleeve : RM 25.00 (Material – Jersey)

We really hope you could purchase them for your organization, customers or someone you'd like to give as a souvenir. This will help to promote the event. Your contribution means so much to the PCAM and our industry.

For further assistance, Please call us (Diana or Wani) at 03-92747288 or email us at info@pcam.com.my to inform the quantity and sizes you'd like to order.

Thank you.

Yours sincerely  
The Pest Control Association of Malaysia (PCAM)

(Mohd Anuar Bin Ahmad)  
Deputy President (2013/2015)  
Organizing Chairman Pest Summit 2014





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