



# The APMEN "Online Resource Exchange Network for Entomology"

<https://orene.org>

Leo Braack, Shobiechah Aldillah Wulandhari, and many others





## Just a quick recap about APMEN for context....

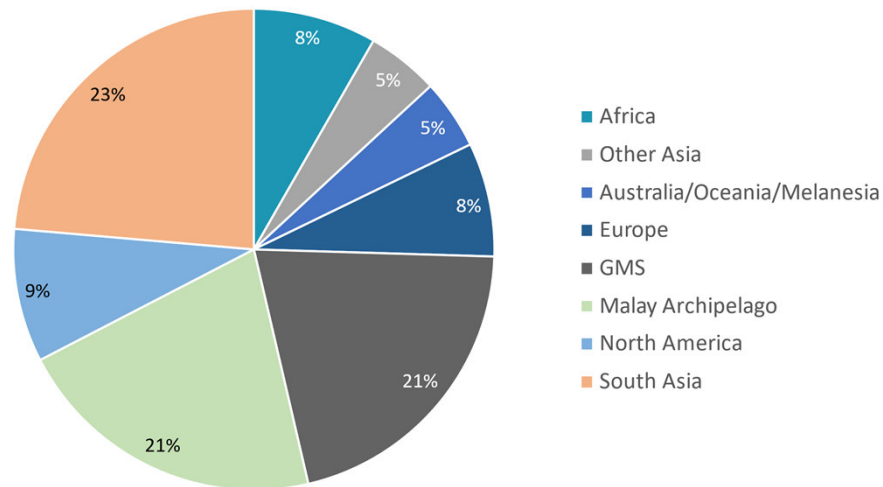
- APMEN established in 2009 to support Member States achieve Malaria Elimination objectives
- Currently 21 Member States across Asia-Pacific
- Now fully integrated with APLMA, HQ in Singapore
- Achieves its technical support mainly via its 3 WG's:
  - Surveillance & Response WG (MORU)
  - Vivax WG (MMV)
  - Vector Control WG (Malaria Consortium)
- APMEN Membership is anyone interested in malaria vector issues, but target clients are Asia-Pacific NMCP's and Partner Institutions such as Universities, Research Institutes etc
- APMEN VCWG core outputs include capacity building in vector surveillance & control, and information sharing.



## So...information-sharing

### APMEN TechTalk Webinars:

- One every 6-8 weeks
- Typically about 160 to >200 attendants per webinar, global audience



### ORENE.ORG:

- Developed to address an expressed need
- Launched 2019
- Primary target is Asia-Pacific, but equally relevant globally



<https://orene.org>

## ORENE- Online Resource Exchange Network for Entomology

UP Portal Google Maps Inbox (12) - leobraa... OpenStreetMap Inbox (10) - leobraa... NIKKEI ASIAN REVI... Capture Reference Netflix (40) Kruger Nationa... Other bookmarks

ORENE

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Online Resource Exchange Network for Entomology (ORENE)

A Community of Practice for Vector Biologists in the Asia Pacific Region

MORE DETAIL



Homepag  
e



Website appearance harmonized to have a similar look to [apmen.org](http://apmen.org) website



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## A Century of Vector Control in India

[READ MORE](#)



### What is APMEN?

The Asia Pacific Malaria Elimination Network (APMEN)



### Our Mission

To support and facilitate the elimination of malaria across the Asia Pacific by 2030.



### Our Impact

21 countries and more than 50 partner institutions join APMEN to eliminate malaria in Asia Pacific.

Click on a header and content options cascade down....



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- News
- Opportunities
- Reports
- Personality Of The Month

# Online Resource Exchange Network for Entomology (ORENE)

A Community of Practice for Vector Biologists in the Asia Pacific Region

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<https://orene.org/#>



Click on “Latest”... “Opportunities”



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**OPPORTUNITIES**

Scroll under “Opportunities” to find updates



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Career - 2022

Post-Doctoral Research Associate



Funding - 2022

TDR Postgraduate Scholarship in Implementation Research Universitas Gajah Mada Indonesia





Click on “Latest” ...”News” and scroll



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13 March 2022

## Updated WHO SOP's for Insecticide Resistance...

WHO has published its new Standard Operating Procedures (SOPs) for monitoring insecticide resistance in Anopheles, Aedes and Culex mosquito vectors:

<https://www.who.int/teams/global-malaria-programme/prevention/vector-control/insecticide-resistance>

The five SOPs describe:...

<https://orene.org/updated-who-sops-for-insecticide-resistance-testing/>

23 March 2022

## Invitation to APMEN TechTalks “Larval Source...

Webinar Description Malaria vector larval source management was implemented with great success in the early-20th century, amongst other impacts strongly contributing to enabling the construction of the Panama Canal. Then we moved to DDT, and finally we embraced bednets (an...

Also under “Latest” we have a “Personality of the Month”....



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PERSONALITY  
OF THE MONTH



Under “Resources” a good number of useful sites...



The screenshot shows the ORENE website homepage. The top navigation bar is dark blue with white text for "CONFERENCES", "LATEST", "RESOURCES", "FORUM", "TECH TALKS", "CONTACT US", and "MY DIRECTORY". A search icon is in the top right. The "RESOURCES" menu is open, showing a list of links: "Training", "Publications", "About Us", "Media", "Useful Links", "Case Study", and "Guidelines". The main content area features a large image of a woman in a white lab coat working at a laptop in a laboratory setting. To the right of the image, the text "Resource" and "Entomology (ORENE)" is displayed in large white font. Below this, it says "A Community of Practice for Vector Biologists in the Asia Pacific Region". A blue button labeled "MORE DETAIL" is at the bottom right. A URL bar at the bottom left shows "https://orene.org/#".

https://orene.org/#

Under “Forum” you can find opportunity to interact and discuss with colleagues....



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**FORUM**

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- COP Sign Ups
- Access To Membership List
- Discussion Forum

# Online Resource Exchange Network for Entomology (ORENE)

A Community of Practice for Vector Biologists in the Asia Pacific Region

MORE DETAIL



<https://orene.org/#>



orene.org/directory/?forums/



CONFERENCES LATEST F

## All forums

Forums

1. [Questions to fellow-entomologists for help](#)
2. [Outdoor Biting](#)
3. [Vector Surveillance Issues](#)
4. [Vector Control Issues](#)
5. [Communities, Social issues, and Partnerships](#)
6. [Funding, Finance, Jobs](#)
7. [Training, Resources, Information](#)
8. [General Issues](#)



Click on “TechTalks” all the various APMEN VCWG webinars are available, fully recorded

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# APMEN TechTalks

## Tech Talks

**f**  
**t**

**Sampling methods for adult malaria vectors**

Forest-goers and residual malaria:  
Addressing the challenge

Welcome to APMEN TechTalks. Series of Webinars design to facilitate information sharing and co-learning around vector control topics.

### Sampling methods for adult malaria vectors

The Asia Pacific Malaria Elimination Network (APMEN) Vector Control Working Group is hosting a series of vector-related webinars to keep the elimination momentum. Vector Control remains the single most

Just click on the one of interest and you can listen in to the whole webinar

The screenshot shows the ORENE website interface. On the left is a vertical list of webinar topics. On the right is a detailed view of the selected webinar, including its title, speaker information, moderator, and registration details. A video player interface is overlaid on the right side of the detailed view.

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**APMEN VCWG Journal Club #1**

**APMEN VCWG Journal Club #2**

**Homing in on Residual Malaria**

**Non-biological threats to Insecticide Treated Nets Effectiveness**

**Appropriate surveillance: Better local understanding for reduced vector exposure**

**More discussions on mosquito repellents and attractants**

**Larval Source Management: Historical successes, current challenges, and future potential**

**Comparing malaria vector captures from cow- and human- baited traps** by **Dr Amelie Vantaux**, Contractual researcher, Malaria Molecular Epidemiology Unit, Institute Pasteur of Cambodia

Moderated by **Dr Leo Braack**, Technical Lead (APMEN Vector Control Working Group), Senior Vector Control Specialist, Malaria Consortium, Bangkok, Thailand

**APMEN TechTalks**

Sampling methods for adult malaria vectors | APMEN TechTalks

Topic: **Sampling Methods for Adult Malaria Vectors**

The efficiency of cow-baited net traps in sampling malaria vector diversity and abundance

Comparative efficiency of Double Net Trap and Human Decoy Trap relative to Human Landing Catches

Comparing malaria vector captures from cow- and human-baited traps

Dr. Brandy St. Laurent  
Staff Scientist, Wellcome Sanger Institute Cambridge, UK

Prof. Leo Braack  
Senior Lecturer, Malaria Consortium, Bangkok, Thailand

Dr. Amelie Vantaux  
Contractual researcher, Malaria Molecular Epidemiology Unit, Institute Pasteur of Cambodia

Moderated by Dr. Leo Braack, Technical Lead for APMEN Vector Control Working Group and Vector Control Specialist for Malaria Consortium

The webinar will be recorded and shared on the Online Resource Exchange Network for Entomologists website ([orene.org](http://orene.org))

Date: 28 April 2020  
Time: 4:00 PM Singapore time  
To register: <https://tinyurl.com/apmenwebinarseries>

Watch Later Share



orene.admin@apmen.org

04-01/02 Helios 11 Biopolis Way,  
Singapore 138667

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### Forum

- COP sign ups
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### Tech Talks

#### Contact us

Windows taskbar showing icons for File Explorer, Mail, Lync, Outlook, Excel, Skype, Word, PowerPoint, and system tray with battery (96%), network, volume, and date/time (2:06 PM Thursday 4/28/2022).



Under “Resources” ...”Training”, already uploaded some Tutorials, but within weeks we will be uploading a 27-Tutorial course on Vector Surveillance, will be real highlight for us.


orene.org/training\_group/vector-control/

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Training / Vector Control

# Vector Control



VCWG

Mode of Actions of Insecticides

- Module on IRS – Dr Rajendra Bhatt
- Basic Mathematical Application in Vector-borne Disease Control Programme
- Tools and Technology for VC

Mode of action of insecticides

**DDT is Organochlorine compound**  
Persistent Organic Pollutant  
**C<sub>14</sub>H<sub>9</sub>Cl<sub>5</sub>**  
2-15 years in soil half-life  
150 year in aquatic half- life

**& kills by acting as nerve poison**

- DDT works by
  - increasing flow of sodium ions through the cell membranes of neurons in insects
  - By opening up the channels through which these signaling ions flow, the neurons are made to fire artificially
  - Nervous system is overloaded if done on a large scale
  - Sends uncontrolled messages around the body and **causes death**

Watch on YouTube

## Evolution...

- The idea identified during 2017 annual APMEN VCWG meeting in Bangkok
- Initially intended as a platform to better understand and document noted gaps within VC across each control programme, and then seek and “match” technical assistance available within the wider VCWG network...soon realized would require substantial dedicated human resources and time
- Eventually evolved more into a knowledge-sharing resource centre
- Hands-on development mostly Nov 2018 to April 2019, pilot version launched soon thereafter.
- The heavy-lifting was done mostly by Tiff Damash and Michael Macdonald, supported by Jeffrey Hii, Allison Tatarsky, Pradeep Srivastava, and other good people.

*(thanks to Tiff Damash for historical details)*





Thank you for listening!

Also, many thanks....



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Malaria Elimination  
Initiative



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University of California  
San Francisco

