



Role of the APLMA/APMEN Vector Control Working Group in Asia-Pacific

General Background

- 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 VCWG core team:
 - Chairman (from A-P NMCP's: Dr Rose Nani Binti Mudin)
 - Co-Chair & Technical Lead (from host institution)
 - Programme Coordinator (previously Htin, now Poe Poe)
 - Now also Technical Officer (Wulan)
 - Funded by donors, APMEN & MC
- 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

Current mosquito-borne disease status in Asia-Pacific

Overall:

- Malaria burden declining in many countries, Elimination achievable by 2030
- Arboviruses on the rise, especially dengue, so vector specialists will continue to be needed, and ensure high-level vector surveillance/control skills

Vector-related challenges:

- High diversity of malaria vector species
- Many are outdoor-biting
- Many are zoophilic
- Much residual malaria sustained by Forest-Goers
- Shortfall in skills for Vector Surveillance



APMEN VCWG Support Interventions

1. Two-week intensive MVSE course with international participation
2. Online 27-Tutorial Vector Surveillance course nearly finalized
3. Periodic ad-hoc courses (GIS, Insecticide Susceptibility Monitoring)
4. High-expertise vector-related webinars for with high attendance
5. Annual APMEN VCWG conference for Asia-Pacific vector community
6. Online Resource Exchange Network for Entomology orene.org
7. Occasional research support
8. “Support Desk” to facilitate linking needs & support

3rd International Malaria Vector Surveillance Course (Udaipur, India)

Call for Applications: 3rd International Training Course on Malaria Vector Surveillance for Elimination (MVSE)
3 – 15 July 2022

Overview

Vector control is the single most effective intervention for achieving a reduction in malaria transmission. Such vector control must be underpinned by a thorough understanding of which vector species are present in a particular area, relative abundance of the various species, breeding site preference, feeding and resting behavior, insecticide susceptibility, data management, data interpretation, all of this then integrated into an effective vector control plan. Each of these elements requires knowledge and skills for effective data sourcing, processing and application, without which vector control programmes would be wasteful and misdirected, or even completely ineffective. APMEN adds value to reducing such capacity gaps which often occur in programmes, to achieve optimized levels of vector surveillance which is the foundation for effective vector control interventions.

Our focus

- Designing a vector surveillance programme
- Field sample collection
- Morphological identification
- Insecticide susceptibility assays
- Insectary Methods and colony management

MALARIA VECTOR SURVEILLANCE FOR ELIMINATION (MVSE) | APMEN VSWG

- Mohanlal Sukhadia University, Udaipur, India
- Two weeks, 20 students from South Asia
- Includes lectures, field training, Insectary training

Online Course on Vector Surveillance

- 27 Tutorials in 6 Modules
- Uploaded onto <https://orene.org>
- Self-help and moderated courses, latter with certification
- Contract with Kasetsart University
- Anticipate completion end-March 2022



Series of TechTalk Webinars

Series of 6 – 8 TechTalks

First webinar held on Wednesday 9th February, 3 speakers

The next one 30th March

APMEN TechTalks

More discussions on mosquito repellents and attractants

Skin bacterial volatiles:
propelling the future of
vector control



Dani Lucas Barbosa

Researcher
The University of Zurich
Switzerland

Semi-field evaluation of novel
chemical lures for *Aedes aegypti*,
Culex quinquefasciatus, & *Anopheles
minimus* (Diptera: Culicidae) in Thailand



Dae-Yun Kim

Postdoctoral research fellow
Kasetsart University
Thailand

New repellents against
mosquito vectors of disease



Thomas Putzer

Head
Base of the Pyramid Group
SC Johnson

Moderated by Dr. Leo Braack, Co-Chair of APMEN Vector Control Working Group, and Senior Vector Control Specialist from Malaria Consortium

**APMEN
TechTalks**

Repellent applications for reduced outdoor malaria transmission

Translating repellent research against malaria vectors in Vietnam

Field-based long-lasting insect repellent devices for reducing outdoor malaria transmission

Repellent impregnated materials against malaria vectors

A Review of repellents against mosquitoes

Community uptake of a culturally-appropriate repellent

Dr. Ian Mendenhall
Principal Research Scientist
Subi NW Medical School

Dr. Mthokozisi Sibanda
Chief Executive Officer
Africa Regional Council
(ARC)

Dr. Ouyango P. Sangoro
Subdirector Research Fellow
International Centre of
Insect Physiology and Ecology

Dr. Maria Maiz
Research Scientist
Malaria Programme
Tropical Diseases Programme

Dr. Emmanuel Mbuja
Research Scientist
Ghana Health Institute, Tanzania

Moderated by Dr. Leo Braack, Co-Chair/ Technical Lead for APMEN Vector Control Working Group and Senior Vector Control Specialist for Malaria Consortium

The webinar will be recorded and shared through the APMEN social media and Online Resource Exchange Network for Entomologists website (orene.org)

Date: 24 March 2021, Wednesday
Time: 2:00 PM Singapore time
To register: <http://tiny.cc/APMENTechTalksMar24>

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Please send your questions to
l.braack@malariaconsortium.org

**APMEN
TechTalks**

Vector Surveillance: Why it matters and the status and capacity of NMCPs to conduct such surveillance

PRESENTERS

Present status of vector surveillance capacity in selected countries in Africa

Vector surveillance and its relevance to vector control

Repellent use to reduce mosquito bites

Dr. Priscilla Odiit
Senior Research Officer
Kenya Centre for Parasitology, Entomology and Malaria Control, Training and Research, Kisumu, Kenya

Dr. Yvonne Rosati
Senior Research Officer
Kenya Centre for Parasitology, Entomology and Malaria Control, Training and Research, Kisumu, Kenya

Dr. Robert Farber
Senior Research Officer
Kenya Centre for Parasitology, Entomology and Malaria Control, Training and Research, Kisumu, Kenya

PANEL MEMBERS

Dr. Priscilla Odiit
Senior Research Officer
Kenya Centre for Parasitology, Entomology and Malaria Control, Training and Research, Kisumu, Kenya

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

The webinar will be recorded and shared through the APMEN social media and Online Resource Exchange Network for Entomologists website (orene.org)

Date: 28 January 2021, Thursday
Time: 2:00 PM Singapore time
To register: <https://tiny.cc/APMENTechTalksJan28>

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Please send your questions to
l.braack@malariaconsortium.org

Annual Conference (Virtual)

Three afternoons, each three hours;
Presentations and Break-out Group Discussions
Full Conference Proceedings circulated

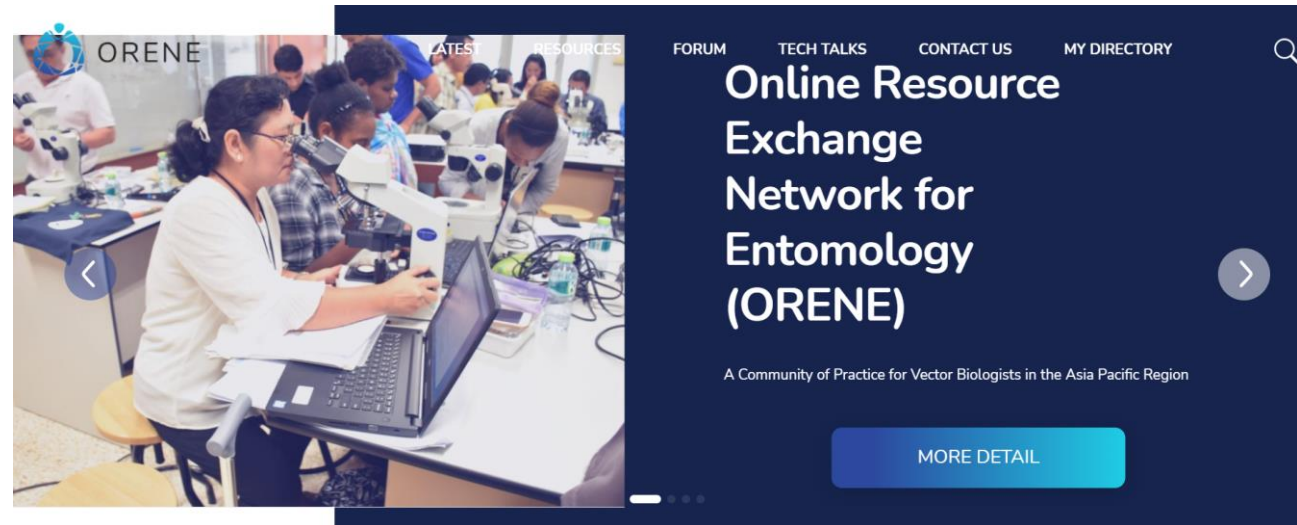
When
Around September




<https://orene.org>

ORENE- Online Resource Exchange Network for Entomology

- Platform for hosting Online Course now upgraded, with automated responses
- Improved interface for audience participation, e.g in “Forum” site
- Site regularly updated



All forums

Forums	Topics	Posts	Last Post
1. Questions to fellow-entomologists for help	1	1	 Wulan 1 day, 23 hours ago
2. Outdoor Biting	0	0	No Topics
3. Vector Surveillance Issues	0	0	No Topics
4. Vector Control Issues	0	0	No Topics
5. Communities, Social issues, and Partnerships	0	0	No Topics
6. Funding, Finance, Jobs	0	0	No Topics
7. Training, Resources, Information	0	0	No Topics
8. General Issues	0	0	No Topics

"Other"

1. Hands-on 2-week experiential courses on various topics such as Insecticide Susceptibility Monitoring, PCR assays on mosquito identity and also sporozoites
2. *Anopheles stephensi* Horn of Africa: Assessment visit by India experts on urban control of mosquito larvae
3. Best Practice short video case studies (community participation, Forest Goers, etc, to upload onto orene.org

Thank you for listening!

Also, many thanks....



Malaria Elimination
Initiative



University of California
San Francisco

