

# National Workshop for Entomological Capacity Building/Strengthening

Sponsors: Society For Vector Ecology (SOVE Indian Region) & ICMR-Vector Control Research Centre Puducherry  
Co-Sponsors: National Vector Borne Diseases Control Programme & National Academy of Vector Borne Diseases (Western India Chapter)

**9<sup>th</sup> - 13<sup>th</sup> March 2020**

## Programme Schedule

Day 1: 09 March (Monday)			
Venue: Dr. P. K. Rajagopalan Hall, ICMR-Vector Control Research Centre, Puducherry			
Time (Hrs)	Session	Activities	
8.30-9.00	<b>Registration</b>		
9.00 -10.00	<b>Welcome, Inauguration &amp; Inaugural Address</b>	<b>Chief Guest: Dr P.K. Das, Former Director, VCRC, Puducherry</b>	
10.00 -10.40	Workshop Key Note Address	Environment and Vector Borne Diseases: A Challenge	<b>Dr P. K Das</b>
10.40 -11.15	<b>HIGH TEA</b>		
11.15-11.45	<b>Pre-Test</b>		
<b>TECHNICAL SESSIONS - Venue: T. Ramachandra Rao Auditorium</b>			
<b>LYMPHATIC FILARIASIS</b>			<b>Resource Persons</b>
		<b>Chairperson : Dr. K. Krishnamoorthy : Rapporteur: Dr S Subramaniam</b>	
11.45-12.15	Lecture-1	Vector Borne Diseases: National scenario, challenges in entomological surveillance and vector control	Dr Kalpana Baruah
12.15-12.45	Lecture-2	Elimination of Brugian Filariasis: A case study from Kerala	Dr S. Sabesan
12.45-13.15	Lecture-3	LYMFASIM Model and its application in the Global LF Elimination strategy	Dr. S. Subramaniam
13.15-13.30	Wrap up/Discussion	Chairperson and Resource Persons	
13.30-14.00	<b>Lunch Break</b>		
		<b>Chairperson : Dr. Kalpana Baruah : Rapporteur: Dr S Subramaniam</b>	
14.00 -14.30	Lecture-4	Tackling Dengue & Chikungunya: Current status and challenges-Indian Perspective	Dr Kalpana Baruah
14.30 -15.00	Lecture-5	Opportunities to improve TAS performance in evaluating LF elimination programme and possible role of vector control	Dr. K. Krishnamoorthy
15.00 -15.30	Lecture-6	Treatment options for filarial lymphoedema patients & MMDP	Dr. L. J. De. Britto
15.30-15.45	Wrap Up/Discussion	Chairperson and Resource Persons	
15.45 -16.00	<b>Tea Break</b>		
16.00 -16.30	<b>Sponsor's Lecture and Demonstration:MGH Labs Pvt Ltd, IIT Madras Bio-incubation Company</b>		<b>Mr Hemachandra Bhovi</b>
16.30 -17.15	Practical - 1	Molecular Xenomonitoring	Dr. V. Vasuki & team
17.15 - 18.00	Practical - 2	Morbidity Management	Dr. L. J. De Britto & team
19.00-21.00	<b>Welcome Dinner</b>		
Day 2: 10 March (Tuesday)			
ARBO VIRAL DISEASES			
		<b>Chairperson: Dr K Gunasekaran: Rapporteur: Dr C Sadnanandane</b>	
9.00 -9.30	<b>Key Note Address-1</b>	Vector Management in California, USA	Dr. Steve Mulligan on behalf of Dr Major S. Dhillon
9.30 -10.00	Lecture-7	Sampling strategies for molecular xenomonitoring	Dr. S. Subramaniam
10.00 -10.30	Lecture-8	Alternate strategy/novel tools for dengue control	Dr. K. Gunasekaran
10.30-10.45	Wrap Up/Discussion	Chairperson and Resource Persons	
10.45-11.00	<b>TEA BREAK</b>		
		<b>Chairpersons: Dr Ashwani Kumar, Dr. Frederick Stephen Mulligan : Rapporteur: Dr C Sadnanandane</b>	
11.00 -11.30	Lecture-9	Dengue, Chikungunya & Zika: Knowledge gaps, research priorities and way forward	Dr. N. Pradeep Kumar
11.30 -12.00	Lecture-10	Recent developments in the diagnosis of emerging and re-emerging arbovirus infections in India: An Overview	Dr. R. Paramasivan
12.00 -12.30	Lecture-11	Microbial biopesticides for vector control	Dr. S. Poopathi
12.30-13.00	Wrap Up/Discussion	Chairperson and Resource Persons	
13.00 -14.00	<b>LUNCH BREAK</b>		
		<b>Chairperson: Dr K Gunasekaran: Rapporteur: Dr C Sadnanandane</b>	
14.00 -14.30	Key Note Address-2	Wolbachia based population suppression of <i>Aedes aegypti</i> in Fresno, California, USA	Dr. Frederick Stephen Mulligan
14.30-14.45	Lecture 12 (Skype/satellite channel)	Arbo-viruses: Burden, Surveillance & Control Strategy	Dr. Raman Velayudhan
14.45 -15.30	Practicals -3	Entomological Surveillance Techniques for Dengue & Chikungunya vectors	Dr. C Sadanandane & Team

15.30 -15.45				<b>TEA BREAK</b>			
15.45 -16.00		<b>Sponsor's Lecture and Demonstration: Goizper West Asia</b>				<b>Mr. Bhushan Phadtare</b>	
16.00 -17.00	Practicals -4	Adult mosquito Susceptibility Testing using WHO tube method			Dr K. Gunasekaran & Dr Sadanadane		
17.00 -18.00	Practicals -5	Antigen Capture ELISA for JE/Dengue in wild caught mosquitoes			Dr. R. Paramasivan, Dr V. Thenmozhi & T. Balaji		
<b>Day 3:</b>							
<b>11 March (Wednesday)</b>							
09.00 -09.30	<b>Key Note Address-3</b>	Impact of vector borne diseases in Europe during the last century			Dr. Volkar Fritz Adolf Storch		
09.30-		Field Ecology Tour					
<b>Day 4:</b>							
<b>12 March (Thursday)</b>							
<b>Scrub Typhus, KFD &amp; Visceral Leishmaniasis</b>							
				<b>Chairperson : Dr. S. Sabesan: Rapporteur: Dr Nisha Mathew &amp; Dr V. Vasuki</b>			
9.00 -9.45	<b>Key Note Address-4</b>	Vector Control options: Insecticides, formulations and dosages recommended under NVBDCP			Dr K Gunasekaran		
9.45 -10.30	Lecture-13	Status of LF in India: Lessons & challenges for achieving and sustaining elimination			Dr. P. K. Srivastava		
10.30-10.45	Wrap Up/Discussion	Chairperson and Resource Persons					
<b>10.30 -11.00</b>							
				<b>TEA BREAK</b>			
				<b>Chairpersons : Dr. Ashwani Kumar : Rapporteur: Dr Nisha Mathew &amp; Dr V. Vasuki</b>			
11.00 -11.30	Lecture-14	Re-emergence and expanding distribution of KFD in India			Dr. C. Sadanandane		
11.30-12.00	Lecture-15	Views on VL Elimination in India:Entomological perspective			Dr. S. Sabesan		
12.00 -12.30	Lecture-16	Vector Control Equipment: Usage and Maintenance			Dr. B. Dhanraj		
12.30 -12.45	Wrap Up/Discussion	Chairperson and Resource Persons					
<b>12.45 -13.30</b>							
				<b>LUNCH BREAK</b>			
13.30 -14.00	Lecture-17	Importance of tick and mite taxonomy			Mr.A. Elango		
14.00 -14.45	Practicals-6	Hands on training - Taxonomy of Ticks and Mites			Mr. A Elango		
<b>14.45 -15. 15</b>							
				<b>TEA BREAK</b>			
15.15 -15.45		<b>Sponsor's Lecture and Demonstration (M/s United Phosphorous Limited)</b>				<b>Mr. Sundaram Rajaraman</b>	
15.45 -16.15	Lecture -18	Identification of Trombiculid Mites			Dr. Phillip Samuel		
16.15 -17.00	Practicals-7	Hands on training - Taxonomy of Trombiculid mites			Dr. Phillip Samuel, R. Krishnamoorthy & R. Govindarajan		
<b>Day 5:</b>							
<b>13 March (Friday)</b>							
<b>MALARIA</b>							
				<b>Chairpersons : Dr P. Jambulingam &amp; Dr. P. K. Srivastava: Rapporteur: Dr S S Sahu</b>			
9.00-9.30	Lecture-19	Vectorinfo Database			Dr Jayakodi		
9.30-10.00	Lecture-20	Programme Guidelines on vector control for malaria in India			Dr R. S. Sharma		
<b>10.00 -10.15</b>							
				<b>TEA BREAK</b>			
				<b>Chairpersons : Dr Ashwani Kumar &amp; Dr. R.S. Sharma: Rapporteur: Dr S S Sahu</b>			
10.15-10.45	Lecture-21	Epidemiology of Tribal Malaria in India: Odisha experience			Dr S.S. Sahu		
10.45-11.15	Lecture-22	Insecticide Resistance and its management in the context of malaria elimination			Dr K. Gunasekaran		
11.15 -11.45		<b>Sponsor's Lecture and Demonstration: Vestergaard Frandsen</b>				<b>Mr. Satish Kumar Singh</b>	
11.45-12.00	Wrap up/Discussion	Chairperson and Resource Persons					
12.00 -13.00	Practicals-8	Vector Incrimination-conventional techniques			Dr R Natarajan, Mr. S. Gopalakrishnan		
<b>13.00 -13.45</b>							
				<b>LUNCH BREAK</b>			
13.45-14.15	Lecture-23 (Skype/satellite channel)	Integrated Mosquito management in Germany with special emphasis on microbial agents			Dr Norbert Becker		
14.15 -15.15	Practicals -9	Vector Incrimination-molecular techniques			Mr. N. Krishnamoorthy & Team		
15.15 -15.45	Lecture-27 (Skype/satellite channel)	Global Vector Control Response			Dr. Rajpal Yadav		
15.45-16.00	Practicals-10	Remote Sensing and GIS applications in VBDs			Dr KHK Raju		
16.00-16.30	Post-Test				Dr K Gunasekaran		
16.30-17.00	Concluding session	Workshop wrap up			Dr Ashwani Kumar		
17.00-17.45	Post Test Feedback				Dr K Gunasekaran		
17.45 Onwards	<b>Valedictory</b>	<b>Chief Guest: Prof. A. P. Dash, Vice Chancellor, Central University of Tamil Nadu</b>					
<b>High Tea</b>							
<i>We shall meet again!!!</i>							