



SOVE Newsletter

President's Message



Dan Kline

Dear Colleagues,

This is just a reminder that the 47th Annual SOVE Conference will be held at the Sheraton Anchorage Hotel & Spa, Anchorage, Alaska, September 11-15, 2016. Our last conference that was held in Alaska was very well attended and well received. Register early and make your hotel reservations. Dr. Lal Mian is the Program Chairperson. He is in the process of putting together an excellent scientific program. As always at these annual conferences there will be an interesting field day.

The site for the 2017 International SOVE Congress has also been determined. Excellent proposals were received from China, Thailand and Spain. After careful deliberation, the SOVE Board of Directors voted to accept the proposal from Spain. The dates for the meeting will be October 1-6, 2017. The venue is the Hotel Palas Atenea, Island of Mallorca (Majorca), Spain. Dr. Miguel Miranda-Chueca worked very diligently on this proposal. Dr. Bulent Alten is the Program Chair for the Congress. He is already busy preparing the program so

if you have any suggestions/recommendations regarding symposia, please contact Dr. Alten (kaynas@hacettepe.edu.tr). More details will be provided in future newsletters and at the annual conference.

In the last Newsletter I mentioned that I was invited by the Entomological Society of America (ESA) to represent SOVE at the "Summit on *Aedes aegypti* Crisis in the Americas: Joining Together to Address a Grand Challenge" in Maceio, Brazil. This meeting was co-sponsored by the ESA and the Sociedade Entomologica do Brasil (SEB) to map out a plan for successfully managing *Aedes aegypti*, the vector of Zika virus, yellow fever, dengue, and chikungunya currently causing so much public health concern in the western hemisphere. In that Newsletter message, I asked the membership of SOVE to comment on what role you think that SOVE should and/or can play in this grand challenge. I got zero responses. There is a follow-up meeting planned for September 27-28, 2016, in Orlando, Florida, as part of International Congress of Entomology 2016.

In a previous Newsletter, I also mentioned that SOVE only has a few members from Africa. This continent is so important to the discipline of vector ecology that I think an effort should be made to rectify this deficiency. I asked for ideas on how this could be accomplished. I got only one response. Let me reiterate that due to the importance of Africa for vector ecology, I think we can and need to do better. Therefore, again I am seeking any ideas that you want to share regarding how we can increase membership in this region; please share them with me (dan.kline@ars.usda.gov).

Dan

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Regional Report



NORTHEASTERN USA

ISIK UNLU, regional director

One hundred eighty three travel related Zika virus cases have been reported in our region including New York (114), New Jersey (12), Pennsylvania (19), Massachusetts (11), Maryland (17), Rhode Island (3), New Hampshire (3), Vermont (10), and Delaware (3) based on the CDC website. Invitations to public outreach events have been on the rise due to growing concerns over the threat of Zika virus. We have already participated in news interviews, public events, senior center functions, and also recently presented an *Aedes albopictus* surveillance overview at an EEE meeting in New Haven, Ct. At first I was worried that I may not fit into an EEE meeting given the substance of my talk, however the talk received a lot of attention because of the growing interest in starting an *Ae. albopictus* surveillance program in the northeast. Our Asian tiger mosquito season has officially started following our first adult collected in a BGS trap on 20 May. The initiation of adult surveillance was based on a degree day model and larval sampling in Mercer County, NJ.

If you have any issues or concerns that you would like the Association Board of Directors to discuss, please contact me (iunlu@mercercounty.org).

Massachusetts experienced much less snow this winter than in 2015 (NMCA President, Priscilla Matton). Temperatures were above average in March and many of the mosquito control districts were preparing for larvicide applications beginning in early April. There were average to above average water levels in most of the larval habitats conducive to aerial applications. However, the weather changed quickly and temperatures dropped below average so applications were put on hold. Applications picked up shortly thereafter and many districts conducted aerial larvicide applications to many of their problem areas. Larvicide applications were conducted by hand as well, but water levels have dropped and are now below average in many areas. Many districts are finalizing water management projects for the season. Some are starting catch basin treatments and all are getting their traps ready for adult surveillance. Most districts will begin their adulticide programs

at the beginning of June.

This year marked the seventh year of this annual meeting (7th Annual EEE Meeting at the CT Agricultural and Experiment Station, New Haven, CT, May 7, 2016 [Charles B. Lubelczyk]), highlights research into many aspects of eastern equine encephalitis virus, with attendees representing the areas of entomology, clinical medicine, wildlife ecology, and veterinary science, among others. As in previous years, there were state summaries of EEE activity reported from northeast states, including Maine, New Hampshire, Vermont, New York, New Jersey, and Massachusetts. A small group of talks also focused on avian involvement in EEE cycles, and its molecular phylogeny. In addition, some presentations also focused on management plans for mosquito control in the face of an EEE outbreak and the preparation of some states for this, including the creation of GIS models to aid in surveillance. This year's talks, because of recent public health concerns, also included discussions on historical aspects of research on Zika virus and its emergence in South America in 2015.

Conference organizers Philip Armstrong (Ct Agr and Exp Station), John-Paul Mutebi (CDC), Rich Pollock (US Ticks Inc), and Charles Lubelczyk (Maine Medical Center) wish to thank the ~50 attendees and presenters who make this meeting an informative event each year.

Members from the Children's Health Institute, Robert Wood Johnson Health System and Rutgers University, including Dina Fonseca, met with Congressman Frank Pallone of New Jersey's 6th District (D) to discuss the current state of understanding about the epidemiology and ecology of the Zika virus. This fact-finding mission for the Congressman is in anticipation of hearings that Congress will be holding, including those of the House Energy and Commerce Committee that Congressman Pallone seats. Up for discussion in these congressional hearings are a proposed \$1.8 billion of emergency funding proposed by President Obama in the upcoming fiscal year.

Isik

continued on p. 7

Regional Report



NORTHWESTERN USA

David G. Sullivan, regional director

2015 CDC disease reports for the Northwest Region

State	Chikungunya (imp)	Dengue (imp)	West Nile	Zika (imp)
Colorado	6	6	101	2
Idaho	3	3	13	0
Montana	1	0	3	3
Oregon	3	3	1	6
Utah	3	3	8	2
Washington	0	260	24	2
Wyoming	0	0	8	0
Total	16	14	158	15

The Northwest Mosquito & Vector Control Association (NWMVCA) held its spring workshop on April 20-21, 2016. The workshop focused on mosquito identification. Other state organizations have or will have held their own spring workshops by the end of May.

The Northwest region was well represented at the AMCA Washington Day, May 9-11, 2016. There were 22 people from 6 States (Utah-8, Oregon 4, Montana 4, Idaho 3, Washington 1, and Colorado 1). We found our representatives open to our need to prepare for the Zika invasion and that vector control was necessary to protect people in the Northwest. Our representatives were also receptive to providing state funds via CDC to increase laboratory identification, virus testing, and field surveillance.

Our representatives seem to be keenly aware of the potential health risk to people in the 33+ states that have *Aedes aegypti* and *Ae. albopictus*, but they are concerned that other species found in the northern states may also transmit the Zika virus.

The weather as usual for the Northwest has varied wildly over the last few months. The late winter in most areas had normal moisture in April there was less moisture and unusual warm temperatures. In May there have been heavy rains (and snow) in much of the region. There is much flooding due to the rain and melting snow. What seemed to be an early mosquito season was halted in many areas.



Regional Report



EUROPEAN SOVE

EVA VERONESI, regional director

I would like to highlight several activities that are going to take place in Europe this year. First, the 20th European SOVE conference will be held October 3 - 7, 2016, in Lisbon, Portugal. The conference will open some interesting discussions on the importance of social science as integrated with vector-borne disease control in the general scheme of integrated vector management. While there will be international speakers sharing their experiences in vector biology and disease control, we will have keynote speakers shedding light on the impact of vector control on human health and communities especially in developing countries, tackling disease prevention and control from an historical and anthropological point of view. Registration is now open with a closing date for abstract submission as July 15, 2016. Moreover, student financial support (free registration and accommodation) will be offered to the best abstract submitted based on 1) the most innovative research and 2) impacting discovery.

Since the great success of our two-day training course on vector ecology and control in 2014 (E-SOVE Thessaloniki, Greece), the European Mosquito Control Association in collaboration with E-SOVE will conduct the 2nd two-day training course on vector ecology and control in Lisbon, Portugal this year, October 1-2, preceding the conference. Participants will have a choice to enrol in one of the vector groups: mosquitoes, *Culicoides*, ticks, sand flies and black flies. Course split in to laboratory and field will be offered by expert entomologists, with course size set at 20 enrollees per vector group. Course enrolment is on a first-come first-serve basis.

On another note, I would like to highlight the AM-SAR project (Arbovirus Monitoring, Surveillance and Research—capacity building on mosquitoes and biting midges) that has just started in the Balkans as part of a Scientific Cooperation between Eastern Europe and Swit-

zerland. Funded by the Swiss National Science Foundation and the Swiss Agency for Development and Cooperation, this project includes partners from Serbia (Faculty of Veterinary Medicine University of Belgrade; Scientific Veterinary Institute of Belgrade, University of Novi Sad), Romania (University of Agricultural Sciences and Veterinary Medicine of Iași), and Switzerland (University of Zurich). The aims of this project are: 1) strengthening of capacities in control of vector-borne diseases, 2) initiating a scientific network in the region, and 3) raising preparedness on the occurrence of vector-borne infections via education and vector surveillance. Two summer schools will be run in Serbia (Belgrade and Stara Planina) and Romania (Tulcea and Iasi) during July 2016, and a winter school in Iasi, Romania (February 2017). Morphological identification, surveillance techniques, and vector screening for pathogens including molecular tools, will be the main topic of the course. As part of the scientific collaboration, investigation on vector distribution and pathogen presence in both vectors and susceptible hosts (birds) will be carried out in the Danube Delta Biosphere Reserve, one of the most important European Gates for emerging diseases, in collaboration with Cantacuzino Institute in Bucharest, Romania. For more information please visit the scopesamsar.com.

Eva



Mark your calendar and get set for

The 47th Annual Conference
SOCIETY FOR VECTOR ECOLOGY
Sheraton Hotel
Anchorage, Alaska
September 11—15, 2016

Keep checking for updates at
www.sove.org



PROGRAM OUTLINE

47th ANNUAL CONFERENCE OF SOCIETY FOR VECTOR ECOLOGY Anchorage, Alaska September 11 – 15, 2016

SUNDAY – SEPTEMBER 11, 2016

2:00 – 6:00 REGISTRATION
4:00 – 5:30 BOARD MEETING

MONDAY – SEPTEMBER 12, 2016

8:00 – 10:00 PLENNARY SESSION
Welcome, awards, announcements, presidential address, keynote address, and SOVE overseas regional reports
10:30 – 12:30 SYMPOSIUM 1: MOSQUITO-BORNE ARBORVIRAL INFECTIOUS DISEASES
Moderator: Ken Linthicum
1:30 – 3:30 SYMPOSIUM 2: ECOLOGY OF ZONOTIC DISEASE VECTORS
Moderators: Ben Beard cbb0@cdc.gov
4:00 – 6:00 SYMPOSIUM 3: INNOVATIONS IN VECTOR CONTROL
Faculty Coordinator: William Walton william.walton@ucr.edu
Moderators: Kristen Hopperstad kahopper@ncsu.edu
Steve Peper steve.peper@ttu.edu
6:00 – 8:00 RECEPTION

TUESDAY – SEPTEMBER 13, 2016

8:00 – 8:00 FIELD ECOLOGY DAY

WEDNESDAY – SEPTEMBER 14, 2016

7:00 – 9:30 POSTER SESSION
9:30 – 10:00 KEYNOTE SPEAKER
10:20 – 12:20 SYMPOSIUM 4: VECTOR ECOLOGY ACROSS BORDERS
Moderator: Norbert Becker norbertbecker@web.de
1:20 – 3:20 SYMPOSIUM 5: THE PROSPECT OF GENETICALLY MODIFIED MOSQUITOES FOR VECTOR CONTROL
Moderators: Gregory Lanzaro gclanzaro@ucdavis.edu
Yoosook Lee yoosook.lee@gmail.com
3:50 – 5:50 SYMPOSIUM 6: DEVELOPMENT OF NOVEL INSECTICIDE USES AND RESISTANCE MECHANISMS
Moderator: Ulrich R. Bernier uli.bernier@ars.usda.gov
6:00 BUSINESS MEETING

THURSDAY – SEPTEMBER 15, 2016

8:00 – 10:00 SYMPOSIUM 7: ANTHROPOD VECTOR REPELLENTS
Moderators: Mustapha Dubboun mdebboun@hcuphes.org
Kamlesh R. Chauhan kamal.chauhan@ars.usda.gov
10:20 – 1:00 SYMPOSIUM 8: INTEGRATED VECTOR MANAGEMENT
Moderator: Robert Novak rnovak@health.usf.edu
1:00 END

OBITUARY

DAVID DUMAN CHADEE

1954—2016

Known by various titles, The Mosquito Man among others, Professor Dave Chadee, 62, died on June 21, 2016, wrote Akilah Stewart in the Trinidad and Tobago News Blog (see link at the bottom). Dave Chadee, was a Professor of Environmental Health at the University of the West Indies. His research interests included the biology, ecology, and control of insect vectors, particularly *Aedes* species that carry dengue fever, Chikungunya, and Zika viruses. He also conducted research on insecticide resistance mechanisms and management of vector populations. He more recently began conducting research on the health impacts of climate change. In recognition of his expertise, he served as a lead author on the human health chapter of the Intergovernmental Panel on Climate Change's 5th Assessment Report (published in 2014). He was a long-term member of the American Society of Tropical Medicine and Hygiene, of the Royal Society of Tropical Medicine and Hygiene, of the Royal Entomological Society of London, of the Society for Vector Ecology, and a life member of the American Mosquito Control Association. He received many well-deserved honors for his outstanding contributions to science, including being a laureate of the Anthony Sabga Caribbean Award for Excellence in 2013, in the field of Science and Technology, Most Outstanding Researcher in the Faculty of Science and Agriculture, UWI, St Augustine (2012), a Vice Chancellor's Award for Research Excellence (2010), and named one of UWI's "60 under 60" outstanding academics. At the time of his passing Dr. Chadee was also an Adjunct Associate Professor at the Department of Tropical Medicine, School of Public Health and Tropical Medicine, Tulane University, New Orleans, USA and an Adjunct Professor in the Department of Epidemiology and Public Health, University of Miami, Florida, USA. Dr. Chadee was the recipient of two fellowships, the Wellcome Trust Scholar (1985-1987) and Gorgas Memorial Institute Fellow (1998-1999) and was awarded a Doctor of Science degree in 1999 by University of Dundee in recognition of his research.

Dave also was dedicated to his students. Dave knew everything about mosquitoes, was always cheerful and ready to help, and loved cricket.

He is survived by his wife of close to thirty years, Joan Sutherland, his nephews Brian and Barry Samlalsingh, to whom he was very close, and his sister Jasmine Chadee.

A blog with further information is at <<<http://www.trinidadandtobagonews.com/blog/?p=9561>>>.

Kristie Ebi, Ph.D., MPH
 Professor, Department of Global Health
 School of Public Health
 University of Washington
 Seattle, WA 98105

Continued from p.2. Karl Maramorosch passed away on May 9 in Poland while visiting friends. An eminent virologist, entomologist and plant pathologist, Karl was a wealth of information, always willing to talk and often in many languages. His kindness and dedication were unparalleled. He was often the first to arrive in the Entomology Department despite being well into "retirement." This unique scholar will be sorely missed and our condolences to his friends and family. Isik Unlu

For Your Calendar

The *SOVE annual conference* will be held in Anchorage, Alaska at the Sheraton, September 11-15, 2016. The room rates are @\$110.00/night.

We hope to see you there.

The 20th *European SOVE conference* will be held October 3 - 7, 2016, in Lisbon, Portugal. For more information, contact Eva Veronesi (eva.veronesi@uzh.ch)

The *Brazilian SOVE Region* will be holding a conference in Recife, October 25-27, 2016. For more information, contact Paulo Pimenta (pimenta@cpqrr.fiocruz.br).

American Mosquito Control Association annual meeting will be held February 12-16, 2017 in San Diego, CA.

The 14th *Arbovirus Surveillance and Mosquito Control Workshop* will be held at Anastasia Mosquito Control District, St. Augustine, FL 32092, March 28-30, 2017. For more information, go to www.amcdsjc.org.

The 5th *International Forum for Surveillance and Control of Mosquitoes and Mosquito-borne Diseases* will be held in Nanjing, China, May 22-26, 2017. For more information, go to www.asiansvcmc.org or www.mosquitoforum.net

The 7th *International Congress of SOVE* will be held as follows:

Date: October 1—7, 2017

Place: Palma of Majorca, Balearic Islands, Spain

Hotel: Hotel Melià Palas Atenea

Stay tuned for more information at www.sove.org.

Jobs

No listing

Resources

For **FREE resources for Investigators**, please visit: <http://www.niaid.nih.gov/labsandresources/resources/dmid/Pages/default.aspx> to see the full range of available services that provide access to research tools and technologies and preclinical and clinical services to facilitate product development.

Visit [Vector Biology Resources for Studying Vectors](#) for a listing of available resources. Key among the resources for studying vectors is provision of LIVE vectors and reagents and genomic materials offered through the [BEI Resources Repository](#). (See Vector Resources in the [BEI online catalog](#).) These resources are available free of charge to registered users in domestic and foreign institutions and NIH grant funding is not required. For information on all resources for researchers provided by DMID, visit the [DMID Resources for Researchers website](#).

Below are two items that may be of interest to some of our membership, dealing with NIAID research interest and funding opportunities for Zika vector research:

<https://grants.nih.gov/grants/guide/notice-files/NOT-AI-16-026.html>

<http://grants.nih.gov/grants/guide/pa-files/PAR-16-106.html>

[Adriana Costero, PhD](#)

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We are on the Web!
www.sove.org

About SOVE

The Society for Vector Ecology is a professional organization formed in 1968 by a group of individuals involved in vector biology and control programs in California. The membership has since grown to represent an amalgamation of diverse research and operational and extension personnel from all over the world. The Society is committed to solving many complex problems encountered in the field of vector biology and control. Among these are the suppression of nuisance organisms and disease vectors through integration of control elements, such as environmental management, biological control, public education, and appropriate chemical control technology.

The Society publishes the biannual Journal of Vector Ecology that contains research and operational papers covering many phases of vector biology, ecology, and control. The Society also distributes a periodic newsletter and holds an annual conference in the months of

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