



SOVE Newsletter

President's Message



Bülent Alten

Dear respectable members of SOVE,

I have lived through a part of the most extraordinary and interesting century in human history and I have had a chance to live in and observe many different countries. Perhaps I may not have left a noticeable mark on the world in the course of this relatively short life, but I feel that I have left a mark on paper due to my interest of listening and watching others at the age of twenty, when I decided to dedicate my life to science. As you may know, the intellectual sense of science prevailing at the beginning of the twentieth-century has been replaced with the new world pragmatism in the present century. For me, it is an unwellcome situation and science now only serves as a tool of having a career in this pragmatic world. When writing this message, I finally recognized two points in my life: first, I have spent most of my time struggling with this unwellcome situation of science; second, I have always needed to have intellectual people, scientists, friends and communities who give importance to the same values with me. I deeply believe that SOVE is one of the organizations that cherish these values.

Since my joining the SOVE in 1989, I have found that SOVE is not only a scientific organization that entails vector ecology and vector-borne diseases, but it also has intellectual scientists who are dedicated to distributing to the world a well-refined knowledge based on sophisticated scientific research. I believe that SOVE members have demonstrably stayed away from "the scientific pragmatism" and I feel proud to be a member of this respectful SOVE family.

Vector-borne diseases and their control are our common problems in the world in spite of the differences between

climatic and ecological conditions, economic and political situations, and scientific levels. At this point, the presence of international well-developed and well-coordinated organizations are quite important to establish a strong bridge between scientists, to organize scientific meetings, to distribute the information obtained from collaborative studies, to provide new group formations among the countries according to new priorities, and to be able to influence politicians. Since its inception in 1968, the Society has been working to achieve these aims with a commitment to solving complex problems encountered in the field of vector biology and control. Apart from other achievements, two aspects of the SOVE that I am especially proud of are: the Journal of Vector Ecology, and the SOVE's support of students. I deeply appreciate the dedication and commitment of past presidents, board members, editors of the journal, editors of SOVE Newsletter, office staff, and the general membership who contributed to the success of these two stories and the Society thus far.

Finally, it is a great honor and privilege that you have bestowed upon me by electing me as the SOVE President for 2014-2015. I respectfully cherish this opportunity to faithfully fulfill the responsibilities of this office. I am sure that your collegiality and cordial support will help me tremendously to serve as your President. Before closing my message, I would especially like to thank past-president Douglas Norris for his outstanding service to the SOVE. I also want to thank the membership, the SOVE executive board, and office staff in advance for all the support I will receive during my tenure as President. I wish you healthy, prosperous and happy years and I look forward to seeing you in upcoming events!

Best regards,

Bulent

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Regional Reports



The Northwest weather pattern this year had the spring wet and cold, summer cool and dry, and fall turned cold and wet in November and December. Washington and Oregon were hit by major storms from the Pacific Ocean and is occurring as I write this report, major snow in the mountains and rain in the valleys. During the last few weeks, major flooding has occurred in parts of Oregon, Washington and Montana. Moisture level in Montana is well above normal.

Human West Nile cases in 2014 were down 37% from 2013. This was due to the overall temperature which was lower and moisture which in much of the Northwest was below normal. Montana for example had a cool summer with normal moisture in most areas. Late in the summer there were a number of storms which produced a large number of mosquitoes, well after the normal mosquito season, but little disease was noted.

West Nile virus cases in 2013 compared to 2014.

	Total	CO	ID	MT	OR	UT	WA	WY
2013	447	316	40	38	2	7	1	41
2014	163	113	18	5	8	2	12	5

The Northwest Mosquito & Vector Control Association (NWMVCA) is holding its Spring Training Workshop in West Richland, Washington on April 3rd and 4th. Information is available on the NWMVCA website/events.

Montana

Winter started in Montana early in late October with rain/snow storms hitting western and southwestern parts of the state. Snow levels in western Montana range from 110% to 140% of average with temperature well below zero in many areas with ice jams on many rivers. Last week there were

NORTHWESTERN USA

David G. Sullivan, regional director

temperatures below -10 F. and today (Dec 12) the temperature is expected to reach the mid 50's

Oregon

Michael Morstad, Manager of the Klamath Falls Mosquito District retired in October and Lyndsey Pearce Assistant Manager is now acting Manager while the District searches for Michael's replacement.

Washington

Angela Beehler, Manager, Benton County MAD, is seeking information from Mosquito Districts. **This is the request by the US EPA:**

We would be very interested in obtaining geospatial data that depict specific areas where mosquitocides are typically applied, even if only as simple as mapping specific mosquito control districts. This information is necessary for us to create an Action Area map, which is basically a footprint of the pesticide use site area. Without this information, we would conservatively assume that mosquitocide products can be applied anywhere in the country (unless the label specifically prohibits use in certain geographic regions).

We (Benton County and 3 surrounding districts) have been going through the consultation process for our program and the effects on salmonids, bull trout, and few others and the Biological Assessment that will be sent to the Services. It includes adulticides and the recommendation from the Corps is that the Services agree with a Not Likely To Adversely Affect determination. Fingers crossed. I will keep you posted.

Oregon had some concerns over a sensitive species plan written by the Oregon Dept. of Fish and Wildlife. The plan includes some language taken directly from the **rescinded** 2005 US guidance for mosquito control on refuges that loosely defines a health threat as arbovirus detected in mosquitoes, etc. If this language is removed the districts would have more flexibility to define a health threat based on abundance.

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Regional Correspondent's Report — Asian SOVE

Mutsuo Kobayashi

Department of Medical Entomology, National Institute of Infectious Diseases, Tokyo

Unexpected outbreak of dengue by *Aedes albopictus* in midsummer in Tokyo, 2014

Dengue outbreaks occurred in Japan during World War II, at which time *Aedes albopictus* was the vector mosquito.¹ Notably, *Ae. albopictus* was reported to be the main vector of the dengue outbreaks in Hawaii in 2001 and Reunion in 2012.² Climatological analysis using the Geographic Information System, showed that the current distribution of *Ae. albopictus* in Japan strongly correlated with areas in which the annual mean temperature is higher than 11°C.³ Similarly, in Europe and the United States, the annual mean temperature is higher than 11°C in more than 98% of the *Ae. albopictus* infested areas. Tokyo is located in the central part of Japan and annual mean temperature is above 16°C. Since 2010, there has been a marked increase in the number of imported dengue cases reported in Japan; with 249 cases reported in 2013.⁴ The number of travelers from abroad including those from dengue endemic countries, has also increased, and has reached 10 million in 2013.

In late August 2013, a German traveler developed dengue fever after returning to Germany from Japan by a non-stop flight. There were no reported cases of autochthonous dengue virus infection in Japan between the years 1944 to 2013. The patient visited 5 urban areas, including Hiroshima, Kyoto, Fufuki, Ueda and Tokyo, during her 2 weeks of travel in Japan. Retrospective search revealed that the population density of *Ae. albopictus* has been shown to be high in the 5 areas that the traveler had visited⁵

In the late August, 2014 the Ministry of Health, Labour and Welfare of Japan received on 3 dengue cases from the local government. Simultaneously 19 cases of febrile diseases consulted on the National Center for Global Health and Medicine in Tokyo were confirmed autochthonous dengue fever and as dengue virus 1 infection during August 26-September 22, 2014. Phylogenetic analysis of the envelope protein genome sequence from 3 patients revealed 100% identity with the strain from the first patient (2014) in Japan⁶. Epidemiological surveillance showed that all 3 patients have visited an area in Tokyo, prior to developing dengue. Up to mid-October 2014, a total of 160 person contracted dengue. The dengue patients shared a common characteristic; most have previously visited Yoyogi Park, a park located near central Tokyo. The park was frequented by many festivals held in or around the park during summer.

Several people also contracted dengue in other parks located 2-8 km away from Yoyogi Park. Although data on the flight range of *Ae. albopictus* in the vicinity of park is limited, there remains a possibility that human movement was involved in disease dissemination. Because approximately 20 homeless people live in Yoyogi Park, it is also plausible that the virus was spread by human that traveled between Yoyogi Park and several distant parks during the incubation period or after disease onset. Unfortunately, we do not have any data on dengue specific IgM or IgG seroprevalence of homeless people that lived in Yoyogi Park.

To evaluate the population density of *Ae. albopictus* in several parks in Tokyo, we used human bait collection (HBC), a method of catching mosquitoes by sweeping for 8 minutes with an insect net, before the mosquitoes land on the exposed surface of collectors (Fig. 1, page 6). The average numbers of mosquitoes collected by the HBC method in Yoyogi Park was more than 10, and at some points of collection, more than 30 mosquitoes were collected within 8 minutes (unpublished data). Recently, the population density of *Ae. albopictus* was relatively high in urban areas of central Honshu, Shikoku, Kyushu Islands of Japan, particularly in parks, temples, shrines and backyard of detached houses with abundant of vegetation. Main larval habitats were catch basins found scattered in parks, public roads and civilian lands. During the peak of the dengue outbreak adult mosquito control measures were carried out using various pyrethroids in several parks. At the same time, to prevent further dengue transmission by mosquitoes, Yoyogi Park was closed to visitor from September 4 to October 31, for 57 days. The outbreak ceased in late October, 2014.

Hotta S. 1998. Dengue vector mosquitoes in Japan: the role of *Aedes albopictus* and *Aedes aegypti* in the 1942-1944 dengue epidemics of Japan main islands. *Med Entomol Zool* 1998;49:267-74. (in Japanese with English abstract).

Effler PV, Pang L, Kitsutani P, Vorndam V, Makata M, Ayers T, et al. Dengue fever, Hawaii, 2001-2002. *Emer Infect Dis* 2005;11:742-9.

Kobayashi M, Nihei N, Kurihara T. Analysis of northern distribution of *Aedes albopictus* (Diptera: Culicidae) in Japan by geographical information system. *J Med Entomol* 2002;39:4-11.

Takasaki T. Imported dengue fever/dengue hemorrhagic fever cases in Japan. *Trop Med Health* 2011;39:13-5.

Kobayashi M, Komagata O, Yonejima M, Maekawa Y, Hirabayashi K, Hayashi T, Nihei N, Yoshida M, Tsuda Y, Sawabe K. Retrospective search for dengue vector mosquito *Aedes albopictus* in areas visited by a German traveler who contracted dengue in Japan *Int J Infect Dis* 2014, 26:135-137.

Kutsuna S, Kato Y, Moi ML, Kotaki A, Ota M, Shinohara K, Kobayashi T, Yamamoto K, Fuiya Y, Mawatari M, Sato T, Kunimatsu J, Takeshita N, Hayakawa K, Kanagawa S, Takasaki T, Ohmagari N. Autochthonous dengue fever, Tokyo, Japan, 2014. *Emer Infect Dis*. 2014, 21(no.3) ISSN:1080-6059.

Minutes of the Annual Meeting of Board of Directors

Society for Vector Ecology

Room – Renaissance, Menger Hotel

San Antonio, Texas

September 28, 2014, 4:00 – 5:30 pm

Call to Order: President Douglas Norris called the meeting to order at 4:03 PM.

Roll Call: The roll call indicated members present: D. Norris, B. Alten, D. Kline, W. Walton, S. Mulligan, D. Sullivan, W. Foster, R-D. Xue, S. Presley, E. Veronesi (ESOVE) and M. Dhillon.

Members absent: Pimenta and Zhao

Other present were: L. Mian, M. Mulla, W. Vandyke and Charlie Smith

Additions to Agenda: Secretary/Treasurer M. Dhillon added ESOVE report by Veronesi.

Approval of Minutes: *A motion made by Mulligan, seconded by Presley to approve the Minutes of September 28, 2013 meeting held in La Quinta, CA, was passed unanimously.*

5. Committee Reports.

A. Publications.

1. Publication:

Journal of Vector Ecology

In absence of Editor Klowden, Secretary/treasurer presented the written report from Marc Klowden to the Board members. Editor Klowden was not available in person; however, the idea to charge a fixed amount per article rather than per page charge was discussed. Dhillon also distributed written report submitted by Editor Klowden. Due to difficulty in getting money for page charges from some authors, Norris suggested that we should get the money first before the paper is published. Alten suggested if we could increase the number of issues of JVE to possibly three. Raising the number will definitely increase the workload of the editor and his staff. It was agreed to direct Walton to work with Secretary-Treasurer and Editor to come up with some proposal on these issues.

No change was recommended for ad charges, or website display.

Newsletter:

Editor Lal Mian thanked all Board members/regional directors for their contributions to the Newsletter. The Board commended Mian for his outstanding service and in improving the quality of newsletter.

At the request of some Board members, it was agreed that the SOVE office will send lists of memberships as well as areas (states) by region to all regional directors. This will help them in preparing their regional reports for the Newsletter.

B. Membership:

1. Update. Dhillon reported that our membership numbers have remained the same as last year's, about 425.

2. Membership Dues. Dues remain unchanged for all categories.

3. Institutional Membership. The idea of creating institutional members at \$500.00 to cover 5 – 10 memberships per institution was discussed. *A motion to offer institutional membership of \$500/year to include up to 10 memberships per institution was moved by Walton and seconded by Kline; after some discussion the motion was carried unanimously*

C. Awards:

Kline reported that Graham White has been selected for the Distinguished Achievement Award and Min-Lee Cheng for the Distinguished Service Award. Board accepted the nominations with unanimous consensus.

6. Financial Report.

A. Financial Statement 2013. Secretary/Treasurer Dhillon distributed a copy of the 2013 financial statement to all Board members present. He discussed the finances of SOVE, stating that SOVE was in a very good financial health. *Motion by Norris, seconded by Presley to approve the financial report, was carried unanimously.*cont' on page 5

B. CD Investments. As CD investments were discussed under Financial Report, no further discussion was necessary.

C. Authorize William Walton as signatory on SOVE account. *A motion to authorize William Walton to be a signatory on the SOVE bank accounts made by Presley and seconded by Norris passed unanimously.*

7. **7th International Congress.** The Board solicited proposals to host the 7th International Congress of SOVE in 2017 from possible sites in China, Thailand, Europe, or Brazil, Proposal due December 1, 2014.
8. **Annual SOVE Conference site.** Several sites including Hawaii and Maryland were suggested for the 2015 conference and Alaska for the 2016 conference. Dhillon and Norris will look into various sites and bring back recommendations to the Board.
9. **Approve and ratify actions passed by electronic vote of Board members.**
 Authorize Secretary-Treasurer to:
 1. Contract with Menger Hotel for 2014 SOVE annual conference---passed unanimously.
 2. Open a bank account in Germany under Euro Sove name to conduct Euro Sove business---passed unanimously.
 Action to be taken: SOVE account for Euro SOVE at Citizens Business Bank.
 3. Send 1000.00 Euros to Makedonia Palace Hotel as a deposit to host the Euro SOVE conference at the hotel; and to
 4. Send up to 2000.00 Euros to assist any future Euro SOVE conference in case it has been requested by the Euro SOVE Director---passed unanimously.
 5. Convert both CDs into a Business Money Maximizer Plus Account with California Bank and Trust at a currently acceptable interest rate; and to
 6. Make future decisions to maximize investment rate of return as needed. Secretary-Treasurer shall inform the Board when investment accounts are modified in any manner and shall report the investment returns at the annual Board meeting---passed unanimously.
 7. Request that all surplus Journal of Vector Ecology be disposed of except 6 copies of each---passed unanimously.
 8. Approval of payment to Joe Wiegand, a Teddy Roosevelt impersonator as Keynote Speaker at the 45th Annual Conference.
 9. Nominate Dr. Major S. Dhillon for CDC membership and send his name for nomination to the CDC Advisory Committee---passed unanimously.*A motion made by Norris and seconded by Mulligan to ratify all the above items 1 – 9 already electronically approved by the Board, was passed unanimously.*
10. **Secretary/Treasurer recommendations:**
 - a) **Renewal of Valerie Montigny's contract of \$12,000.00/year.** After some discussion, *a motion by Norris, seconded by Kline, to approve Valerie Montigny's contract for an amount of \$12,000.00/year, passed unanimously.*
 - b) **Honorarium of \$700 for Marian Shannon.** *A motion by Presley and seconded by Norris to give an honorarium of \$700 as recommended by Secretary-Treasurer, was carried unanimously.*
11. **Budget 2013:** After some review and discussion, *a motion moved by Walton, seconded by Kline, to approve the budget as presented, was passed unanimously.*
12. **New Items to Agenda.** Euro SOVE report by Eva Veronesi. The ESOVE meeting in Greece is expected to have 170 participants. She also said that a 2-day training workshop by ESOVE will be held in Thessaloniki, Greece and we expect to have some 58 vector control professionals. Also, she will set up an ESOVE account in Zurich to conduct Euro-Sove business. The account will be administered by her. She will work with Secretary/Treasurer to set up the account. The Board agreed to setting up the account as it is difficult to conduct Euro Sove business from America.

..... cont'd on page 6

Budget continued from page 5

13. New Officers Announcement: Kline announced that Michael Kaufman (Michigan State Univ.) was elected Vice-President of SOVE. The other candidate, Steven Presley has been notified of the results.

14. Adjournment: After no further business, the meeting was adjourned at 5:38 PM by President Norris.

I certify that the above minutes substantially reflect the action taken by the Board of Directors at the meeting held on September 28, 2014.

Major S. Dhillon

Major S. Dhillon, Ph.D.
Secretary/Treasurer

Euro SOVE Annual Conference

The Euro SOVE annual conference was held in Thessaloniki, Greece on Oct. 13-17th, 2014. There were 160 attendees. Before the annual conference, for the first time, the EuroSOVE held a training workshop which was attended by 60 people involved in vector control. The next Euro SOVE will be held in September 2016. More to come in the next Newsletter. We highly encourage you to participate in the Euro SOVE conferences.
Major Dhillon



From text on page 3:

Fig. 1 Human bait collection for evaluation of population density of *Aedes albopictus*. Female and male mosquitoes tend to fly under the knee of collector

Society for Vector Ecology - Annual Financial Statement - January - December, 2013**BANK BALANCES- DEC 31, 2012:****\$289,010.41**

Funds invested in Certificates of Deposit, May 2006:
 Interest Earned on Certificates of Deposit thru 2012
 Interest Earned Jan-Dec 2013
 Certificates of Deposit December 31, 2013

**Certificates of
 Deposit**
 \$100,000.00
 \$11,778.89
 \$69.70
\$111,848.59

	<u>INCOME</u>	<u>EXPENSES</u>
Dues/Membership	\$31,160.00	
Donation	\$60.00	
Page Charges	\$31,787.40	
Interest	\$10.58	
Other Income	\$15,840.17	
Other Income-Gates Foundation	\$122,600.00	
Total Income Jan -Dec 2013	\$201,468.15	

General:	Visa/MC Merchant Fees	\$3,611.10
	Bank Service Charges	\$1,151.38
	Bank Finance Charge	\$0.00
	PayPal Charges	\$804.45
	Business Lunches	\$803.13
	2013 Congress Meeting	\$0.00
	Supplies	\$749.80
	Telephone	\$0.00
	Misc.	\$1,529.28
	Total General Expenses:	\$8,649.14

Computer	Software	\$95.53
	Network Solutions Webhosting	\$256.47
		\$352.00

20136th International Congress Palm Springs, CA

2013 Congress Registration	\$94,780.00
2013 Congress Sponsorship	\$5,000.00

Hotel	\$130,785.08
Excursion	\$7,879.46
Student Stipend	\$1,910.00
Petty Cash	\$353.00
Travel	\$53,113.25
Programs	\$604.80
Awards	\$559.66
Supplies	\$7,641.65
Honorarium	\$4,700.00
Hospitality/Dinner	\$0.00
	\$99,780.00
	\$207,546.90

Taxes:	2013 FTB Filing Fee	\$10.00
	2013 Tax Prep	\$350.00
	Total Taxes Expenses:	\$360.00

Printing:	Postcards	\$0.00
	Total Printing Expenses:	\$0.00

Postage:	Misc. Postage	\$414.51
	Total Postage:	\$414.51

Services:	Mark Klowden-Editor	\$3,000.00
	Anne Klowden	\$8,185.00
	Valerie Montigny-Secretarial Services	\$9,166.60
	Webmaster	\$2,250.00
	Total Service Expenses:	\$22,601.60

TOTALS FOR Jan -Dec 2013	\$301,238.15	\$239,924.15
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FUND RECONCILIATION

BofA Bank - 1523 Bal. Fwd 12/31/12	\$166,767.30
CBB Bank - 5207 Bal. Fwd 12/31/12	\$462.00
CBB Bank - 3688 Bal. Fwd 12/31/12	\$10,002.22
Paypal - Bal Fwd 12/31/12	\$4,196.99
Deposit in Transit - Bal. Fwd 12/31/12	\$0.00
Income	\$301,238.15
Expenditures	\$239,924.15
Bank Balance 12/31/13	\$242,742.51
Certificate of Deposit	\$111,848.59
TOTAL FUNDS	\$354,591.10

Ending Bal from Bank Statements	December, 2013
BofA - 1523	\$99,770.33
CBB - 5207	\$132,315.11
CBB - 3688 (Savings)	\$109,783.13
Paypal	\$644.27
Deposit in Transit BofA to CBB	-\$99,770.33
	\$242,742.51

Variance \$0.00

For Your Calendar

5th International Forum for Sustainable Management of Disease Vectors to be held November 2-6, 2014 in Qingdao, Shandong, China. Visit www.chinavbc.cn/forum/

12th Annual Arbovirus Surveillance and Mosquito Control Workshop to be held in Anastasia Mosquito Control District (AMCD), St. Augustine, FL, March 24-26, 2015. Visit www.amcdsjc.org.

The 4th International Forum for Surveillance and Control of Mosquitoes and Mosquito-borne Diseases Organized by Entomological Society of China, Asian Society of Vector Ecology and Mosquito Control, Beijing Institute of Microbiology and Epidemiology will be held May 25 – 28, 2015, in Guangzhou, China. Contact: xueamcd@gmail.com

The 81st Annual Meeting of the American Mosquito Control Association will be held in New Orleans, LA, March 29—April 2, 2015. Visit www.mosquito.org.

The International Symposium on Ectoparasites of Pets, the Livestock Insect Workers Conference, and the American Association of Veterinary Parasitologists (AAVP) will hold a joint conference in Boston, July 11-14, 2015. Visit AAVP.org for deadlines and other information, or e-mail NHinkle@uga.edu.

Jobs

Vector Biology. The Department of Entomology, University of California at Riverside invites applications for a tenure-track **Assistant Professor/Assistant Entomologist** position, 9-month appointment, available July 1, 2015. The position has

25% Instruction and Research and 75% Organized Research in the Agricultural Experiment Station <http://cnas.ucr.edu/about/anr/>. Applicants must hold a Ph.D. in Entomology or a related discipline; post-doctoral experience is preferred. The focus of this position will be on studying the behavior, ecology, evolution, genetics, molecular biology and/or physiology of insect vectors that transmit pathogens to animals, humans, and/or plants. Areas of research emphasis may include, but are not limited to, the ecology, epidemiology, evolutionary and comparative genomics, or innate immunity of vectors. Evaluation of applications will begin November 15, 2014, but the position will remain open until filled. For more information, go to <http://www.entomology.ucr.edu>.

Resources

FREE Resources for Investigators are available!

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](#).

[Adriana Costero, PhD](#)

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Near Bozeman, MT by D. Sullivan, 11-29-2014



Society for Vector Ecology

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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 September/October.

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