



## SOVE Newsletter

### Annual Conference 2012

#### In this issue

Annual Conference 2012	1
Presidential Messages	2,3
Minutes—Board Meeting	4,5
Announcements	3
Regional News, Calendar	6
Awards, Career Opportunity	7
About SOVE	8

#### Conference Sponsors

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- Culinex
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#### Sustaining Members

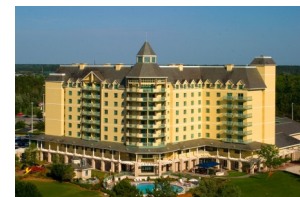
- Mir S. Mulla
- Robert Gay

The 44<sup>th</sup> Annual Conference of SOVE was held September 22-27, 2012 in St. Augustine, Florida. Except for the field day trip, all conference activities took place at the Renaissance Hotel at the World Golf Village. The conference attendees came from different parts of the world—from Africa, Asia, Australia and Europe to North and South America, all sharing the same purpose of vector ecology. The conference offered a variety of opportunities to learn and share new research findings on the ecology and control of disease vectors. The conference program had nine symposia (including two student symposia), a poster session, and an ecological field trip. The conference started with a plenary session which included a welcome by President Kenneth Linthicum, award presentation by Vice President Doug Norris, announce-

ments by Secretary/Treasurer Major Dhillon, Presidential Address by Kenneth Linthicum, and last but not least, before the break, a presentation—*Aedes aegypti* biocontrol with *Mesocyclops* and *Wolbachia* by the Keynote Speaker Brian Kay from Australia.

The conference symposia in the order presented were as follows:

- Symposium 1—Phlebotomine sand flies
- Symposium 2 and 3, all student presentations coordinated by Mir Mulla.
- Symposium 4—Resistance management in arthropods of medical and veterinary importance.
- Symposium 5—Nectars for vectors.
- Symposium 6—*Culicoides* biting midges as arbovirus vectors.
- Symposium 7—Military entomology research.
- Symposium 8—Application of GIS/GPS in



vector control. The last Symposium 9—Lesser-known emerging pathogens on native and invasive arboviruses and tick-borne rickettsiosis.

Besides the nine symposia all offered indoors, there was this full day of an ecological field trip arranged exclusively for the conference attendees. The field day activities started with a visit to the Guana State Park/Education Center that included trail walking and marsh view; a trip to the Alligator Farm on Anastasia Island; a visit to the >2 centuries old historical monument, Castillo de San Marcos; and finally a dinner and social activity at the Conch House before returning to the hotel.

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Ken Linthicum

## Kenneth Linthicum, Outgoing SOVE President

It has been a privilege to serve as President of the Society for Vector Ecology this past year, the 44th year of our organization. As I depart as President I would like to briefly summarize the status of the Society for Vector Ecology and some of the challenges we face in the future.

Your new President William Walton will preside over next year's meeting, the International Congress, in Palm Springs at the La Quinata Golf Resort with Doug Norris serving as President-Elect and Bulent Alten as Vice-President. Doug Norris, with Mir Mulla and Lal Mian, organized a superb scientific program for our Annual Conference in St. Augustine, Florida, February 23-27, 2012. We thank the Board members and staff of Anastasia Mosquito Control District, St. Augustine Florida and Northwest Mosquito and Vector Control District, Corona California for providing expert and much appreciated local and administrative support for the conference. The Conference was well attended; however, the membership of the Society has fallen in recent years and the Board is exploring ways to increase membership.

Major Dhillon, Secretary-Treasurer, reports that the fiscal health of the Society is sound and no adjustments to membership dues are recommended. The new Brazilian and Asian SOVE Regions are in place and active, joining ESOVE. Marc Klowden, editor of the Journal of Vector Ecology, reports that the journal continues to attract high quality papers from national and international authors with significant impact. The 5 year impact factor of the journal is 1.279 and the ranking of the journal among all entomology journals is close to the top one-third.

From a scientific, public health and agricultural perspective we continue to face significant challenges from emerging vector-borne diseases. Movement of arthropod vectors and the pathogens that they transmit

coupled with significant changes in global environmental conditions caused by many factors including climate change will continue to increase the threat of vector-borne diseases. These threats will require scientific and technological research to provide environmentally sound solutions for vector surveillance and control. In my Presidential Address at our Annual Conference in St. Augustine I explored various linkages between climate, ecosystems and elevated transmission of 4 vector-borne diseases: dengue, chikungunya, Rift Valley fever, and malaria.

Between 2010 and 2012 many examples of climate impact on agricultural and public health problems were observed and several are depicted on this map.

Climate extremes between 2010 and 2012 alone have provided many examples of increased threats to agriculture and public health (Figure 1). Drought and elevated temperatures in 2012 may have contributed to the largest dengue outbreak ever recorded in the Kenya and the largest number of West Nile virus human cases in the U.S. since 2003. Heavy rainfall resulted in a Rift Valley fever outbreak in 2010 in southern Africa, and outbreaks of Murray Valley encephalitis and Kunjin viruses in 2012 in eastern Australia. I am confident that the members of SOVE will continue to meet the challenges of emerging vector-borne disease by developing new tools to combat the impact to humans and animals.

This year has been particularly rewarding for me as President of SOVE and I very much enjoyed the experience to serve the society which has significantly contributed to reducing the threat of vector-borne disease throughout the world. Many people helped me during the last year but I would like to especially thank Major Dhillon and Ruth McDonald for their support and advice.

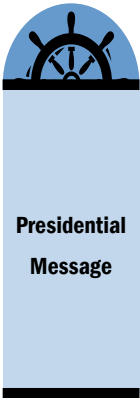
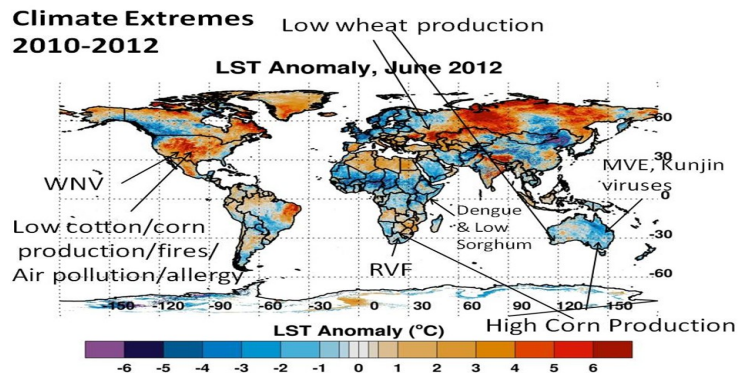
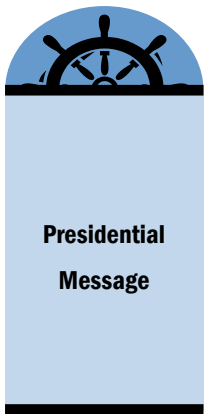


Figure 1. Global Land Surface temperature anomalies for June 2012 (kindly provided by A. Anyamba, GSFC, NASA). Increasing brown to red colors indicates temperatures 1-6 °C. above normal while blue colors indicate temperatures 1 – 6 °C below normal. Between 2010 and 2012 many examples of climate impact on agricultural and public health problems were observed and several are depicted on this map.





William Walton



## William Walton, Incoming SOVE President

It is an honor and a privilege to serve as President of the Society for Vector Ecology during 2013. I thank outgoing President Ken Linthicum for his dedicated service to SOVE. Ken has provided you an overview of the activities of our society during the last year or so. I will not reiterate the specifics. Suffice it to say that SOVE welcomed new branches in Asia and South America, and our membership continues working diligently to understand the biology and ecology of vectors and the pathogens that they transmit across all scales of study from the molecular level to the landscape level. Collectively, we strive to apply this knowledge to develop novel methods for the control of vectors and vector-borne diseases. Rapid climate change, an expanding human population, global commerce, changing land-use patterns, political instability resulting from socioeconomic factors and scarcity of natural resources are among the factors that will contribute to the challenges of emerging vector-borne diseases that vector ecologists and biologists will face. The collegiality and camaraderie of our membership makes it a pleasure to serve as your President.

One great aspect of SOVE is the highly

interactive meetings and congresses. The 6th International Congress will be held September 22-27, 2013 at the La Quinta Resort and Club near Palm Springs, California. The site is a beautiful venue at the base of the Santa Rosa Mountains in the Coachella Valley. It is appropriate that I pen this message just before the holidays. For those of you who are film history buffs or revel in the classic films of Hollywood during the holiday period, it is rumored that Frank Capra penned one of the most beloved holiday movies "It's a Wonderful Life" in one of the casitas at the La Quinta Hotel (which became La Quinta Resort and Club). The favorite suite, number 136 in the San Anselmo Casita, of Capra and his wife, Lucille, is still on site. Capra called the site his "Shangri-La" and confirmed in his autobiography that he wrote some of his other award-winning films at the site. While this resort also was a favorite of the likes of Clark Gable, Greta Garbo, and Errol Flynn, SOVE's stars Greg Lanzaro and the Organizing Committee are putting together a scientific program that should make for an exciting and informative meeting. I encourage you to make plans to attend the sixth International Congress.

I wish you happiness for the holiday season and health and prosperity in the New Year...and I look forward to seeing you in September!

## Announcements

- ◆ Ruth McDonald has officially retired as the SOVE office secretary. She will be missed for her years of dedicated service and loyalty to the SOVE. Congratulations and best wishes!
- ◆ Valerie Montigny has taken over as the new office secretary to run the SOVE office. Welcome aboard, Valerie! All future correspondence should be sent to her at: [valerie@sove.org](mailto:valerie@sove.org).
- ◆ Dr. Mir Mulla has retired as Editor of the SOVE Newsletter in September, 2012 The Society would like to thank him for his dedication and sustained commitment to the cause of vector ecology through the years. However, according to the SOVE Secretary/Treasurer, "he is not off the hook as yet...".
- ◆ Dr. Lal S. Mian has taken over as the newsletter editor, effective immediately.

**Society for Vector Ecology**

**Troon Room – Renaissance World Golf Village Resort**

**St. Augustine, Florida**

**September 23, 2012, 4:00—5:30 PM**

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**Call to Order:** President Kenneth Linthicum called the meeting to order at 4:00 PM.

**Roll Call:** The roll call indicated members present were: K. Linthicum, W. Walton, D. Norris, G. Lanzaro, S. Mulligan, D. Sullivan, W. Foster, D. Kline, M. Dhillon, L. Mian (proxy for R. Duhrkopf) and M. Mulla (proxy for A. Farajollahi). Members absent were: Bulent Alten (European region), P. Pimenta (Brazilian region) and Z. Kim (Asian region). Others present were: M. Klowden, R. Xue, G. Read and N. Hinkle.

**Additions to Agenda:** Secretary/Treasurer M. Dhillon added an item regarding Ruth McDonald's contract.

**Approval of Minutes:** *Motion made by Lanzaro, seconded by Walton to approve the Minutes of September 25<sup>th</sup>, 2011 meeting held in Flagstaff, Arizona, was passed unanimously.*

**5. Committee Reports.**

**A. Publications.**

**1. Publication:**

**Journal of Vector Ecology**

Editor Klowden reported that our impact factor of SOVE Journal had dropped due to the 3<sup>rd</sup> Publication of Sand Fly Monograph; however, the overall 5 year average was still high. He also discussed the role of authors.

No change in page charges was recommended. He stated that the average cost for an article was between \$400.00 and \$600.00. He will further discuss with Secretary/Treasurer if it would be possible to charge a fixed amount per article rather than per page charge. He also indicated that there was no information on website regarding page charges. Secretary/Treasurer will look into this matter and if necessary, he will ask the Webmaster to post the charges.

No change was recommended for ad charges, website display.

**Newsletter:**

Dr. Mulla stated that the Newsletter was dormant as we did not have any articles from members. We don't want to publish news articles from other association newsletters. We must assign each Board member to send articles on a rotational basis. He stated that the Board should look into replacing him. All Board members thanked Mulla for his great accomplishments. After discussion on several SOVE members, Dr. Lal Mian was chosen to replace Mulla. *Motion by Dhillon, seconded by Kline, to appoint Dr. Lal Mian of CSUSB as Editor of SOVE Newsletter, passed unanimously.*

**B. Membership:**

Dhillon reported that our membership numbers have declined to about 400. Mulla suggested formation of a Membership Committee. Klowden suggested a booth at Entomological Society of America. Mian suggested more outreach at public health meetings and booth at the National Environmental Health Association. Norris recommended booth at the American Society of Tropical Medicine and Hygiene. Mulligan suggested webinars, but Norris said the due to low participation in webinars they discontinued the webinar program.

Norris reported that Josef Schlein has been selected for the Distinguish Achievement Award and Rudy Xue for the Distinguish Service Award.

**Financial Report.** Secretary/Treasurer Dhillon distributed additional copies of the financial report to all present. He also gave an up-to-date copy of the financial report to all including Board members. He discussed the finances of SOVE in detail. He stated that SOVE was in a very good financial health. *Motion by Mulligan, seconded by Sullivan to approve the financial report, was passed unanimously.*

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

**B. Grants.** The Board inadvertently missed this item (Membership dues).

7. **Membership decline.** This item was discussed in 5B.

8. **6<sup>th</sup> International Congress.** Lanzaro stated that the Congress will be held September 22-27, 2012 in La Quinta (Palm Springs), California. He stated that exact titles of each symposium will be selected by the moderators. He further stated that each symposium will have two moderators—one from the US and one from overseas. Walton recommended that we should involve scientists from overseas. Walton also suggested that it will be nice to have 5 minutes talk on select posters. Norris recommended having vendors present posters.

9. **2014 Annual SOVE Conference site.** Several sites including Coeur de lane, Yellowstone, Whitefish, Texas and Montana were suggested for 2014 conference. Secretary/Treasurer stated that he will look into various sites and bring back his recommendations to the Board.

10. **Approve and ratify electronic actions taken between the last Board meeting and 2012 Board meeting.**

A. Vote on \$5,000.00 donation from Valent BioScience for first Brazilian SOVE Conference.

B. Vote on authorizing Secretary/Treasurer to sign contract with LaQuinta Inn for 6<sup>th</sup> International Congress.

C. Vote on authorizing Secretary/Treasurer to hire a webmaster.

*Motion by Mulligan, seconded by Walton to approve and ratify the previous actions as taken, passed unanimously.*

11. **Secretary/Treasurer recommended that Ruth McDonald's contract be increased to \$11,000.00 for the next year.** He stated that she served as an independent contractor pursuant to IRS rules. He also recommended that an additional \$1,000.00 should be granted to Ms. McDonald's contract for extra work due to 6<sup>th</sup> International Congress. *Motion by Walton, seconded by Mian, to approve Ruth McDonald's contract for an amount of \$11,000.00 for 2012-2013 and an additional \$1,000.00 for additional work due to 6<sup>th</sup> Congress, passed unanimously.*

12. **Budget 2013:** After review, the *motion made by Sullivan, seconded by Mian, to approve the budget as presented except adding \$1,000.00 to Ruth McDonald's contract, passed unanimously.*

13. **New Items to Agenda.** Already discussed under Item 11.

14. **New Officers Announcement:** Secretary/Treasurer announced that Bulent Alten (Turkey) is elected Vice-President of SOVE. He stated that the other candidate, Bart Knols from the Netherlands has been notified of the results. The vote was very close.

16. **Adjournment:** After no further business, the meeting was adjourned at 5:46 P.M. by President Linthicum.

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I certify that the above minutes substantially reflect the action taken by the Board of Directors at the meeting held on September 23, 2012.

*Major S. Dhillon*

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Major S. Dhillon, Ph.D.

Secretary/Treasurer

## *Regional News*

### **SOVE – Brazilian Region**

The Brazilian region of SOVE held its meeting in conjunction with Entomol 5 Society of Brazil in Recife, October 22-25, 2012. Over 80 people from several South American countries, including Europe and the USA, attended the meeting. The majority of the presentations focused the genetics of mosquitoes and sand flies. The Society would like to thank Drs. Paulo Pimenta, Sinval Filho, and Maria Helena for organizing the meeting. The organizing committee did an outstanding job in selection of the venue and program. We look forward to working with our Brazilian colleagues in promoting vector ecology.

Major Dhillon,  
Secretary/Treasurer

### *For Your Calendar*

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Mosquito and Vector Control of California  
2013 Annual Conference  
February 3 – 6, 2013  
Sacramento, CA  
For more information, visit [www.mvcaac.org](http://www.mvcaac.org).

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American Mosquito Control Association  
79th Annual Meeting  
February 24 – 28, 2013  
Atlantic City, NJ  
For further information, go to [www.mosquito.org](http://www.mosquito.org).

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3rd International Forum for Surveillance and  
Control of Mosquitoes and Mosquito-borne Diseases  
organizers: Entomological Society of China, Asian Society  
of Vector Ecology and Mosquito Control, Beijing Institute  
of Microbiology and epidemiology  
May 27 – 31, 2013  
Suzhou, China  
For more information, contact Rudy Xue, [xueamcd@gmail.com](mailto:xueamcd@gmail.com)

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The International Symposium on Ectoparasites of Pets  
April 7-9, 2013, Munich, Germany  
For further information, go to [www.isep2013.net/](http://www.isep2013.net/)  
[Courtesy: Nancy Hinkle]

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**SOVE - 6th International Congress**  
Sep. 22-27, 2013  
La Quinta Resort & Club  
La Quinta, California, USA  
For more information, visit [www.ove.org](http://www.ove.org)

## Awards

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DAVIS--Mosquito research received a welcome boost when three graduate students in the UC Davis Department of Entomology each received a **2012 William Hazeltine Memorial Research Fellowship Award**.

The awards went to Jenny Carlson, avian malaria research, and Sandra "Sandy" Olkowski and Kelly Liebman, dengue research. Hazeltine's three sons, Craig of Scottsdale, Ariz; Jeff of Los Angeles; and Lee of Woodland recently visited the UC Davis campus to congratulate the winners and learn more about their research.

Carlson studies avian malaria with UC Davis associate professor/medical entomologist Anthony "Anton" Cornel, headquartered at the Kearney Agricultural Research and Extension Center, Parlier. Olkowski studies dengue with major professor/medical entomologist Thomas Scott. Liebman, also a graduate student of Thomas Scott's, now has her doctorate in entomology and is working at the Centers for Disease Control and Prevention in Atlanta, Ga.

Carlson received \$2000; Olkowski, \$1000' and Liebman, \$580 .

Kathy Keatley Garvey  
UC Davis Department of Entomology

## Career Opportunity

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### Graduate Assistanship

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A PhD graduate student assistantship is available starting in Fall 2013 in the Department of Entomology, Texas A&M University. The project will involve spatial analysis and epidemiological modeling of West Nile virus to understand mechanisms of maintenance and amplification. A B.S. and M.S. in a closely-related field, strong quantitative background including statistical skills using Program R, and experience with GIS are preferred. Interested applicants should submit the following: letter of interest, CV, contact information for 3 references, unofficial transcripts, and GRE scores as a single document (PDF or word) to

Dr. Gabriel Hamer ([ghamer@tamu.edu](mailto:ghamer@tamu.edu)) with the subject line including PHD POSITION. Information about the Hamer Lab can be found at: <http://hamerlab.tamu.edu/>

In particular, I am recruiting outstanding candidates to nominate for the TAMU Merit and Diversity Fellowships: <http://ogs.tamu.edu/Funding-information/Fellowships/Faculty-nominated-Fellowships/>

Fellowship requirements:  
U.S. Citizen or permanent resident  
Preferred minimum GPA score of 3.5  
Preferred minimum quantitative and verbal GRE scores of 155

For the Diversity Fellowship (but not Merit Fellowship), applicant must be from an underrepresented background. Deadline to be considered for fellowships will be Dec. 21, 2012.

[Courtesy: Nancy Hinkle]

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## Society for Vector Ecology

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Lal S. Mian  
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**We are on the Web!**  
[www.sove.org](http://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.

## SOVE Board Members, Editors, Webmaster

### 2013 SOVE BOARD

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