



## SOVE Newsletter

### President's Message



Uli Bernier

Dear Colleagues,

I will start this column by thanking you, the membership of SOVE, for allowing me to serve as the 51st President of this Society. It has been a pleasure! Dr. Lyle Petersen will take over as President tomorrow (January 1, 2020). I would like to extend a warm welcome Dr. Petersen.

As I reflect on the past year of my presidency, I feel fortunate to have been able to attend the annual SOVE meeting in Puerto Rico (September) and SOVE regional meetings in China (May) and the inaugural Latin American SOVE which was held November 20-24, 2019 in Manaus, Brazil.

Several of the board members and I remained in Brazil after the meeting and spent a few days at a lodge in the Amazon forest. One of the fascinating sights in our voyage to the lodge was the "meeting of the waters" where the darker Rio Negro river containing plant matter and little or no sediment and the lighter colored Solimões river containing silt and sand meet. The rivers flow side by side as shown in the picture (p. 5) for almost 4 miles before converging to form the Lower Amazon River. The separation is maintained due physical reasons. The Rio Negro is less dense and flows more slowly (2 km/h) and at a higher temperature (28 °C) than the Solimões which is denser, flows more quickly (6 km/h) and is at a colder temperature (22 °C). What was fascinating to us was that the differences in these waters have a direct effect on malaria risk to humans. There are fewer mosquitoes and

lower disease risk to humans on lands adjacent to the Rio Negro. In addition to the water containing low levels of nutrients, it also has a higher pH which deters mosquitoes from developing. In contrast, the Solimões is mineral rich and promotes development of mosquito larvae.

Looking toward the future, I will still assist the Society wherever and whenever possible. The most important task that lies ahead of me is the preparations for the 8th International SOVE Congress, to be held in Charleston, SC, in the Fall of 2021. Executive Director Major Dhillon and I will be working on securing the venue in the next few months. We will provide further updates in 2020. Expect a call for symposia to be announced at the 50th Annual SOVE meeting in Honolulu, Hawaii (September 20-24, 2020).

SOVE originated in California in 1968 and in just over 50 years has grown to become a large family comprised of members from many countries all over the world, who participate in regional conferences hosted by branches, i.e., European, Asian, Latin American, and Indian regions. Information about the regional branches can be accessed through the main SOVE page, and meeting announcements can be found both on the SOVE website and on the websites for each of the branches. I look forward to visiting with you at these future meetings

Best regards,  
Uli

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**49th Annual Conference**  
**Society for Vector Ecology**  
**San Juan, Puerto Rico**  
 September 22—26, 2019  
 by  
*Lal Mian and Major Dhillon*

The 49th Annual SOVE Conference was held September 22-26, 2019 in San Juan, Puerto Rico, USA. The conference was attended by 179 participants from different countries i.e., Argentina, Brazil, Germany, Greece, and USA. The conference offered 10 symposia on different topics, including one exclusively arranged for and by students with a faculty coordinator. The symposia titles were distributed as follows:

Symposium 1. Surveillance and ecology of mosquitoes in Puerto Rico—old challenges and future directions (8 talks) ;

Symposium 2. Healthcare, Public Health and Vector Control; The Disconnect (8 talks);

Symposium 3. Unveiling the ecology of North American *Culicoides* vectors (7 talks);

Symposium 4. Use of repellents in mosquito control (6 talks);

Symposium 5. Irradiation and *Wolbachia* and genes, Oh my! (7 talks);

Symposium 6. Urban ecology of disease vectors (9 talks);

Symposium 7. Student Oral Presentations (8 talks);

Symposium 8. Advances in the detection and surveillance of mosquitoes (7 talks);

Symposium 9. Overcoming challenges of insecticide resistance (8 talks); and

Symposium 10. Romising trends in citizen science for vector control (4 talks).

There was one poster session, displaying 48 presentations on different topics.

Joined at the podium by Vice President Isik Unlu, the conference started with a welcome and award ceremony by SOVE President Uli Bernier, followed by announcements by Executive Director, Major Dhillon, In the award ceremony, Steve Presley received the SOVE Outstanding Achieve-

ment Award, Steve Mulligan the Outstanding Service Award and Lal Mian the Presidential Honor Award. After the Presidential Address by Bernier, Randy Gaugler gave the keynote address, which was next followed by regional reports by Rui-De Xue, Southeastern region, Alexandra Chaskopoulou, European region, and Paulo Pimenta, the Brazilian region.

The conference proceeded well as planned except for one major revision caused by mother nature—an inclement weather pattern that resulted in the cancellation of the SOVE Signature Event—Field Ecology Day due to a transportation halt across the island. As a result, the Thursday sessions were held on earlier on Tuesday. The poster session was held on Wednesday morning as scheduled. The conference was adjourned at 1:15 pm on Thursday (see pictures from the conference on pages 3-5).



**Pictures from the SOVE Conference 2019**





Pictures from the SOVE Conference cont'd.



*Pictures from the Conference cont'd.*



*President Message from p.1*



*Meeting of the Waters near Manaus, Brazil*



Uli Bernier  
(wearing Amazonian Headdress)



**Inaugural Conference**  
**Latin American Society for Vector ecology**  
**Manaus, Brazil**  
**November 20—24, 2019**  
 by  
*Paulo Pimenta and Lal Mian*

The Inaugural Meeting of the reformed Latin American Society for Vector Ecology (LA-SOVE; formerly Brazilian SOVE) was held November 20-24, 2019 in Manaus, Brazil. The conference was preceded by student workshops (lecture, lab and field) supervised by university faculty and other professionals over four days, November 16-19, 2019. There were 170 participants in the workshops, including students, instructors and coordinators from different Latin American countries, Europe and the United States. The conference offered 49 oral and 70 poster presentations; it was attended by 189 participants from different countries from Latin America, Europe and the U.S. The conference started with a plenary session with a platform party consisting of (left to right) Lal Mian (Past-President, SOVE), Uli Bernier (President, SOVE), Paulo Pimenta (Director, LA-SOVE), Marcus Guerra (President, FVD), Major Dhillon (Executive Director, SOVE), Sergio Luz (Director, ILMD), Wanderli Tadei (Coordinator Lab (INPA), Steve Mulligan (Vice President), and Norbert Becker (Past-President, SOVE), each giving a welcoming statement on behalf of the SOVE. This was followed by a keynote address by Marcus Lacerda who gave a global picture of the spread of vector-borne diseases with a focus on malaria and its mosquito vectors. The conference consisted of seven symposia spread over four days as follows:

Symposium 1: old challenges and future directions for vector control (5 talks),

Symposium 2: Advances in the detection and surveillance of mosquitoes (9 talks),

Symposium 3: Advances in the knowledge of transmission and vector control of neglected tropical diseases (13 talks),

Symposium 4: Education to prevent neglected tropical diseases (2 talks),

Symposium 5: Progress in the knowledge of vectors of arbovirus causative agents of neglected tropical diseases (6 talks),

Symposium 6: Latest improvements in the comprehension of new world mosquitoes as malaria vectors (5 talks), and

Symposium 7: Neglected tropical disease vectors: New perspectives of controlling old threats (6 talks).

The conference attendees also had a chance to go on a field ecology excursion to visit a field museum and a walk through a real-life tropical rainforest ecosystem on November 22. The poster session was held in the morning of Nov 23, followed by 8-min turbo talks on selected posters. The top three poster authors were also awarded later in the day. The conference was adjourned around noon by LA-SOVE Director, Paulo Pimenta, with announcements of the formation of a new LA-SOVE Board in their General Assembly meeting on Nov 23 and the next LA-SOVE meeting to be held in Argentina in 2021. See pictures from Brazil on pages 7-9.



## LA-SOVE Pictures



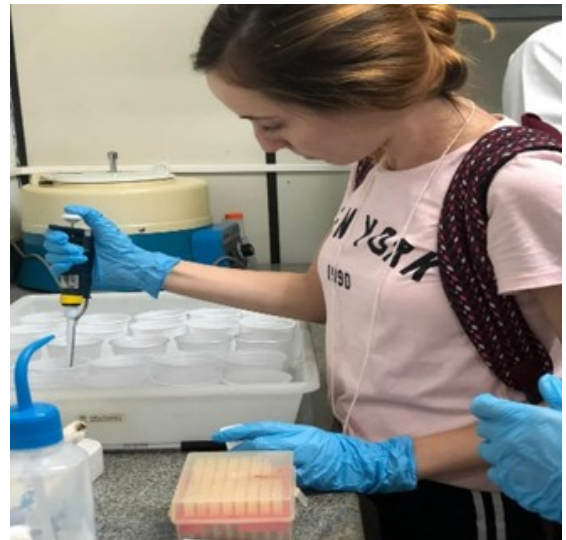


LA-SOVE pictures





LA-SOVE pictures



## *Regional Reports*



### **SOUTHEASTERN REGION**

**Rui-Di Xue**

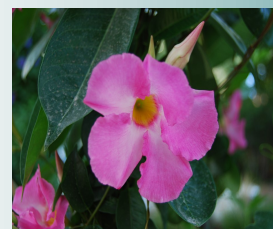
Regional Director

Greetings!

In Florida, as of December 12, 2019, in Florida, there were 2 human cases of West Nile virus (WNV), 8 travelled-related chikungunya fever, 374 travel-related dengue fever, 14 locally acquired dengue cases, 36 travel-related Zika cases, and 60 travel-related malaria cases reported. Additionally, there were 9 equine WNV, 28 eastern equine encephalitis virus (EEE); 734 sentinel chickens sero-positive for WNV, 110 for EEE, and 4 for St. Louis encephalitis virus (SLE). In other activities in the region, the 91st annual meeting of the Florida Mosquito Control Association (FMCA) was held November 17-20, 2019 in St., Augustine, Florida, with 280 participants in attendance. The FMCA will hold the annual Fly In Class in Lee County Mosquito Control District, January 14-16, 2020; Tallahassee legislation meeting on January 20-21, 2020; and Dodd short courses in Gainesville, Florida, Feb 3-7, 2020. Also, the Journal of the Florida Mosquito Control Association (JFMCA) published volume 66, 2019. It is a refereed journal and published once a year with no page charges. For more information about the FMCA and the JFMCA please visit [www.floridamosquito.org](http://www.floridamosquito.org)

In other news, Mark Latham, Director of Manatee Mosquito Control District will retire in May 2020, and will be succeeded by Chris Lesser. Andrea Rogers will replace Aaron Lloyd as Assistant Director of Pasco County Mosquito Control District; the latter takes as Assist Director, Lee County Mosquito Control District. Whitney Qualls, formerly Texas Department of Health Medical Entomolo-

gist, has joined Anastasia Mosquito Control District (AMCD) as Entomologist and Scientific Manager and Mohammad Farooq, formerly at the Navy Entomology Center of Excellence at Jacksonville, FL, has been hired as Field Biologist at the Anastasia MCD. Vinthya Aryaprema has been hired as the Biologist for the sterile insect technique (SIT) project and AMCD is searching for a Ph.D. molecular entomologist or arbovirologist to replace Caroline Efstathion who left for Volusia Mosquito Control District, Florida. The AMCD and the USDA Center for Medical, Agricultural and Veterinary Entomology will hold the 17th Arbovirus Surveillance and Mosquito Control Workshop March 30-April 1, 2020 at the AMCD Headquarters, St. Augustine, FL. The President of the SOVE Dr. Lyle Petersen will give the Keynote speech. For more information, visit [www.amcdsjc.org](http://www.amcdsjc.org)





## *Regional Reports*



### **SOUTHT-CENTRAL REGION**

**Steve Presley**

Regional Director

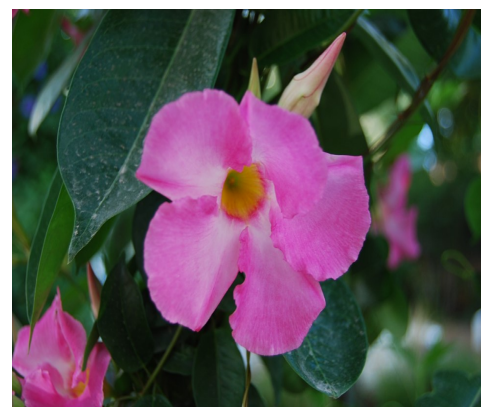
Greetings from the South-central Region!

It is an honor and pleasure to be serving as the regional director and I want to thank Melissa Nolan for her service to our society, and to congratulate her for her new position as Assistant Professor of Epidemiology, University of South Carolina.

As we once again transition from summer (i.e., mosquito and tick field work) to winter (i.e., equipment repair, data analysis and planning for next summer), it is a good time to reflect on our collective accomplishments and the vector-borne disease challenges we faced during the past year. When considering accomplishments within the South-central Region, even though there were several imported human cases of chikungunya (7 cases), dengue fever (44 cases), and Zika fever (1 case), there were no locally-acquired human cases of these diseases reported. Additionally, there were relatively low numbers of West Nile fever and West Nile neuroinvasive disease cases reported in the region, with a total of 22 and 47 respectively, and five West Nile virus-associated deaths. Perhaps the most concerning challenge we face, both from a research and an operational perspective, is the alarming increase in the number of murine (flea-borne) typhus reported from across the United States, but particularly from large metropolitan areas in Texas and Louisiana.

If you are a member of SOVE and live in the South-central United States (i.e., Arkansas, Kansas, Louisiana, Oklahoma, and Texas) please send me an email ([steve.presley@ttu.edu](mailto:steve.presley@ttu.edu)) with any news or information that you would like disseminated to the membership (e.g., awards and grants, promotions, relocations, vector ecology news, new vector control/surveillance equipment, methods, programmatic issues, conferences, meetings, job opportunities, etc.). PLEASE do not be bashful, send me any information you would like to share with your SOVE friends and colleagues.

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## *Regional Reports*



### **SOVE Indian Region**

**Ashwani Kumar**  
Regional Director

Dear Colleagues and friends,

Looking back some changes that have taken place during the past six months or so, first of all, I have moved from the National Institute of Malaria Research (NIMR) at Goa, India to become Director, Indian Council of Medical Research – Vector Control Research Centre (VCRC), at Pondicherry (Puducherry), an institute of national importance established in 1975. This institute has a mandate to research on several vector-borne diseases viz., malaria, lymphatic filariasis (both wuchererian and brugian), Japanese encephalitis, dengue, chikungunya, zika, Kyasanur forest disease, scrub typhus, and other rickettsial diseases. The institute with over 160 personnel has one of the finest scientific and technical officers who have played crucial role in shaping policies for the control and elimination of these diseases in India. The VCRC is WHO Collaborating Centre for control and elimination of lymphatic filariasis and integrated vector management. Besides, this institute runs an M.Sc. in Public Health Entomology, a unique program in the entire South East Asian Region. It is envisaged that close association between the SOVE and VCRC will be a win-win situation whereby several scientific meetings and training workshops could be jointly arranged for the region's public health entomologists. The process of this collaboration has already been set into motion. A national workshop under the aegis of SOVE Indian Region has been planned for March 2020 at Puducherry. We tried shifting of the SOVE office from NIMR Goa to the VCRC Puducherry with the permission of the parent SOVE; however, due to

practical hurdles facing the registration process, it had to be shelved. Therefore, SOVE Indian Region office will continue to function from its current location at NIMR, Goa, while all the activities shall be planned and organized from the VCRC Puducherry. The membership drive has also been started and it is hoped that new members will be enrolled in the coming months to achieve our target of 100 members in India alone. The next SOVE International Conference will be held in 2021 (where ??) as has been announced by the parent SOVE recently. A formal announcement from us will be released in early 2020. At present, the Indian Sub-continent faces acute shortage of well-qualified and skilled entomologists. Therefore, the SOVE Indian Region aims at entomological capacity building and strengthening in the Indian Sub-continent. In addition, through SOVE organized meetings and workshops, opportunities will be created for bilateral and multi-lateral research collaborations for basic, applied and operational research. Since artificial intelligence is proving as a game changer, this technology can be harnessed for developing smart vector surveillance and control tools. SOVE can be a platform for such technological development and evaluation at multi-country/continent level through the concerted efforts of the parent SOVE.

The WHO had engaged me through APW (?) to prepare two training manuals for tutors and participants on "Vector Surveillance and Control at Points of Entry" as mandated by International Health Regulations (2005). These are currently under review. The final versions are likely to be released by WHO for global use in 2020





## Student Page

### Kara Fikrig Student Representative

Hello all!

Before introducing myself as the newly elected student representative to the SOVE Board, I would like to begin by thanking all of the students who participated in the first democratic election for student representative, including all those who voted, nominated fellow students, and of course, to all those who decided to run. It is an honor to have been elected into this role and I will do my best to advocate for student interests as part of the SOVE Board. I would also like to thank those who made this student group a reality, including last year's representative, Bethany McGregor, who worked hard to make the student group and symposium more democratic and transparent by initiating the first election and implementing abstract applications for the student speakers. Former student representative Casey Parker was also pivotal in the formation of the group, as well as Dr. Michael Kaufman who helped to organize the inaugural student meeting at the 2018 annual conference. And of course, thank you to the SOVE Board for welcoming an official student voice to the Board – the student body greatly appreciates this demonstration of the value of our voice.

For those of you that I have not yet had the opportunity to meet, my name is Kara Fikrig and I am a 3rd year PhD candidate in entomology at Cornell University in Dr. Laura Harrington's lab. Before beginning my PhD at Cornell, I completed a Master of Public Health under the mentorship of Dr. Durland Fish at Yale University, at which point I began research on *Aedes aegypti*, first in Dominica and then in Australia with Dr. Scott Ritchie. I loved this field of study, so I decided to continue to focus on *Aedes* mosquitoes for my PhD research. My first chapter is about the feeding ecology of *Ae.*

*albopictus* in Long Island, NY, including its blood and sugar feeding patterns in the context of host availability and environmental parameters. I am preparing to begin my second chapter, which will investigate the movement of *Ae. aegypti* by boat along the Amazon and Ucayali Rivers in Peru, and the implications for insecticide resistance and fitness. I am incredibly excited to begin this next chapter and look forward to the lessons that I will learn through using new tools in a new place. I also hope that the information that I gather will be useful to the Peruvian vector control programs that regularly use insecticides to control dengue outbreaks in the remote towns where I will be sampling.

I would also like to introduce the student representative-elect, Kyndall Dye-Braumuller, who is a first year PhD student in epidemiology at the University of South Carolina. Her research will concentrate on vector-borne diseases, a field in which she already has a strong foundation. She has a Master's in medical entomology and has since worked for Harris County Public Health Mosquito and Vector Control in Texas, where she was involved in Chagas disease, kissing bug, tick, and tick-borne disease surveillance from 2016 to 2019. Now as a PhD student, Kyndall's research will focus on tick ecology and tick-borne diseases, specifically Rocky Mountain spotted fever. Kyndall will take the helm as student representative, beginning January 1, 2021. I am confident that she will be a great leader, as she has already demonstrated an aptitude for the position in her roles as student

.....Student Page cont'd on page 16.

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**SOVE BOARD OF DIRECTORS**  
**Minutes of the 2019 Annual Meeting**  
 San Felipe Room, Sheraton Hotel & Casino  
 San Juan, Puerto Rico  
 September 22, 2019 – 4:00 pm

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**Call to Order:** President Bernier called the meeting to order at 4:20 pm.

**Roll Call:** Bernier asked everyone to introduce themselves. Roll call indicated:

**Board members present:** Bernier, Petersen, Mian, Mulligan, Achee, Sullivan, Pimenta, Chaskopoulou, McGregor, Norris, Dhillon. Nolan participated via telephone.

**Board members absent:** Isik Unlu, Ashwani Kumar and Gunther Muller.

**SOVE Counsel present:** Amirt Dhillon.

**Others Present:** Steve Presley, Chris Stelzig (ESA), Norbert Becker, Bill Van Dyke, Jerry Hogsette.

**Additions to Agenda:** None. According to Executive Director, Major Dhillon, two items were missing in ratification of the minutes regarding purchasing CDs and other financial investments.

**Approval of Minutes of 2018 Annual Meeting:** A motion made by Mian and seconded by Mulligan to approve the minutes as presented, was *passed unanimously*. Bernier, with the Board consent, moved Item No. 8 as it needed more discussion.

## **8. Financial Report.**

**A. Financial and Administrative support to other Regions:** After a lengthy discussion on financial report and financial support to regions, the Board agreed that it is a good idea to support the other regions in the initial stages. A motion made by Petersen and seconded by Achee to approve the financial report and authorize Executive Director to provide a grant of up to \$5,000.00 to a SOVE region for each of the first two meetings with the contingency of getting full accounting for the grant amount, was *passed unanimously*.

**B. 1 & 2: Annual Meeting:** Executive Director discussed the expenses of annual conference and reported, "it is getting very difficult to provide meals, reception, student and field ecology day with the small registration fee of \$360.00. At this meeting, we will lose about \$16,000.00. This year it is not a problem but in future meetings if we keep losing money on conferences, it is not a good financial decision." Board discussed various options and agreed unanimously to keep the field ecology day in place as it is the signature event of the SOVE. Board members also agreed to keep supporting student attendees. Board authorized Executive Director to adjust the registration fee to meet expenses.

**C.** After some discussion, the Board agreed to provide an opportunity to poster presenters to give a three-minute talk, using a limited number of slides and also indicated that the number of slides. It was also agreed to give presenters the option whether they will give an oral presentation.

**D. Appointment:** A motion made by Achee and seconded by Xue to appoint Dr. Lal Mian and Dr. Steve Presley as the Southwestern and Southcentral Directors respectively, was *passed unanimously*.

**E. Women in Science:** After a lengthy discussion, the Board agreed to expand this event and further agreed to not only Women in Science but also other important issues. Achee will lead this event in collaboration with Melissa Nolan.

**F. Website:** Petersen and some other directors recommended that the website be improved. Van Dyke discussed some of the difficulties in improving the website. McGregor suggested that the website should reflect membership. Chris Stelzig stated that there is a database program to track membership. Pimenta suggested to recruit volunteers to improve some aspects of the website.

**G. Free Access to Journals:** Executive Director reported that the WHO website provides free access to journals.

.....*Minutes* cont'd on page 15.



*Minutes cont'd from page 14.*

## **Committee Reports**

### **A. Publications Reports:**

1. Dhillon gave an update on the report submitted by Editor Klowden. Board members were provided with a copy of the report. A lengthy discussion occurred on free access to the Journal and move to Bio one etc. Board appointed a Publication Committee consisting of Klowden, Achee, Mian, Presley and Dhillon to look into all editorial issues and make recommendations to the Board.

2. **Newsletter:** Editor Mian thanked all the regional directors for submitting their news and suggested that the regional directors should get more news from members in their regions.

**B. Membership Report:** Dhillon recommended that the Board should not increase the dues until the Publications committee report is finalized. He also reported the student director representation and bylaws have been approved by membership.

### **C. Regional Reports:**

**EuroSOVE:** Chaskopoulou stated that she was in the process of planning the ESOVE conference. She obtained proposals from the Netherlands and Bulgaria and was waiting for a response from ESOVE advisory committee to select the Country.

**Latin American SOVE:** Pimenta reported that the LA-SOVE meeting will be held in Manaus, Brazil on November 20 – 24 this year. He stated that due to economic situation in Brazil, it was very difficult to obtain grants to sponsor the conference. He thanked the Board for awarding a grant to support this year's LA-SOVE.

**Asian SOVE:** Xue reported that there were outbreaks of the dengue fever in several Asian countries this year and it was the first time the outbreak occurred in Bangladesh. The ASVEMC held their meeting in Xiamen, China on May 26-27 before the 6<sup>th</sup> International Forum for Surveillance and Control of Mosquitoes and Vector-borne diseases. Also, the ASVEMC collaborated with Taiwan Environmental Pest Management Association to organize the international workshop for vector and pest control in Taipei, May 30, 2019. The ASVEMC plans to hold the 5<sup>th</sup> meeting before the 7<sup>th</sup> IFSCMVD, Dalian, China, May 23-27, then a workshop in Korea in May 28, 2021.

**Indian SOVE:** Bernier reporting on behalf of Kumar that the Indian SOVE meeting was successfully held in Goa on February 13-16, 2019. The meeting was attended by over 100 delegates and students from all over India. The overseas session was very well attended. Several awards were presented to distinguished researchers and students. A Field Ecology tour on boat was a memorable event with food, music and dance. In coming months, the I-SOVE is planning to hold a training workshop with the next meeting held in early 2021.

Kumar also requested that the Board consider the I-SOVE office relocation since he has moved to a director's position from Goa to Pondicherry. After some discussion and to facilitate the planning and organizing of the SOVE meeting, a motion made by Dhillon and seconded by Mian to move the I-SOVE office location from Goa to Pondicherry, seconded by Mian, *passed unanimously*.

**D. Awards:** Bernier reported that the awardees will be announced tomorrow at the morning session.

**Financial Report:** Executive Director gave detailed reports on the income and expenses of SOVE. After a short discussion, a motion made by Mulligan and seconded by Mian to approve the financial reports as presented, was *passed unanimously*.

**A. Annual Conference 2020:** Board unanimously agreed to hold the 2020 SOVE conference in Hawaii and directed Executive Director to obtain proposals and execute contract with the best price hotel. Bernier and Petersen will assist Executive Director to choose the venue and planning.

**B. 8<sup>th</sup> International Congress 2021:** Board agreed to hold the 8<sup>th</sup> International Congress of SOVE in Charleston, South Carolina directing Executive Director and Program Chair Bernier to choose venue and start planning for the Congress. ....*Minutes cont'd on page 16.*

*Minutes cont'd from page 15.*

Item was moved and discussed prior to Item 5.

Item was moved to the end of the meeting after Item 14.

Executive director reported that previously approved action items were missing when the Board authorized him to purchase CD's in the amount of \$250,000.00 and to invest \$10,000.00 on a 5-year term. To add this action item to ratification as Item c, a motion made by Petersen and seconded by Mian to approve ratification of Items A through C, was *passed unanimously*.

**Budget for 2020:** Executive Director highlighted some of the budget revenues and expenditures. He stated that in the past, his District supported some of his travel and other expenses, but since he is no longer District's employee, all his travel expenses will be supported by SOVE to address SOVE business, including assisting other SOVE regions. After a short discussion, a motion made by Mian and seconded by Achee to approve the budget as presented, was *passed unanimously*.

**New Items added to Agenda:** No new items were discussed.

**Board Member Comments:** None

**New Officers Announcement:** Executive Director reported that Steve Mulligan has been elected as the Vice President.

**Closed Session:** The Board held a short closed-door session. Once open session resumed, Bernier announced that the Board had unanimously accepted Mrs. Montigny's, an independent contractor, notice of termination of her services to SOVE as of December 31, 2019. Also, by the same motion by Petersen and seconded by Chaskopoulou, the Board authorized Executive Director to contract with a new independent contractor for secretarial services. *The motion passed unanimously.*

**Adjournment:** Bernier adjourned the meeting at 6:47pm.

I certify that the above minutes substantially reflect the actions taken by the Board of Directors at the meeting held on September 22, 2019.

*Major S. Dhillon*

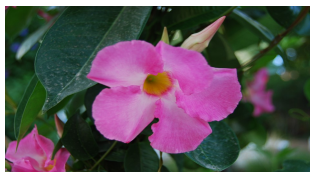
Major S. Dhillon, Ph.D.

Executive Director

*Student Page cont'd from page 15:*

representative and chair for numerous entomological and mosquito control committees. When Kyndall moves into the role of SOVE Board student representative, we will hold another election for the next student representative-elect.

This year, we plan to organize a student activity at the beginning of the 2020 annual meeting to strengthen and jump-start the formation of student bonds. We will also request abstract applications for student speakers again, as was done last year. If you have any ideas about ways in which the student group or student representative could better serve the student body, please reach out to me at [kmf227@cornell.edu](mailto:kmf227@cornell.edu). I look forward to the next year!





### Society for Vector Ecology - Annual Financial Statement JANUARY - DECEMBER 2018

**BANK BALANCES- DEC 31, 2017:****\$378,498.01**

Funds invested in Certificates of Deposit, May 2006:  
 Interest Earned on Certificates of Deposit thru 2016  
 Interest Earned Jan-Dec 2018  
 Certificates of Deposit December 31, 2018

Certificates of Deposit
\$100,000.00
\$11,957.77
\$62.76
\$112,020.53

	INCOME
Dues/Membership	\$23,525.00
Royalties	\$18,980.49
Page Charges	\$15,540.00
JVE Editing Charges	\$560.00
Interest	\$345.43
Other Income	\$5,122.76
<b>Total Income: Jan -Dec 2017</b>	<b>\$64,073.68</b>

**EXPENSES**

<b>General:</b>	Visa/MC Merchant Fees Bank Service Charges PayPal Charges Business Lunches/Entertainment Office Supplies Misc. expenses Travel Expenses/Travel Other/Misc. <b>Total General Expenses:</b>	\$3,247.84 \$470.00 \$696.16 \$1,292.90 \$314.47 \$554.63 \$2,946.24 <b>\$9,522.24</b>
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<b>Computer:</b>	Software Webhosting/Constant Contact	\$179.88 \$802.94 <b>\$982.82</b>
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**2018 - 48th Annual Conference, Yosemite, CA**

Registration	\$78,240.00	
Sponsorship	\$17,485.00	
Hotel		\$1,665.44
Excursion		\$17,500.00
Poster Boards		\$0.00
Audio Visual		\$0.00
Student Stipend		\$2,400.00
Petty Cash/Tips		\$520.00
Travel		\$1,245.70
Programs		\$560.30
Awards		\$1,309.54
Badges/Bags/Pens		\$5,145.26
Supplies		\$613.05
Honorarium		\$1,000.00
Hospitality/Dinner/Receptions		\$64,668.73
Misc.		\$2,292.52
	<b>\$95,725.00</b>	<b>\$98,920.54</b>

<b>2018 E-SOVE Conference- Palermo, Italy</b>	<b>\$33,228.88</b>	<b>\$33,228.88</b>
	<b>\$95,725.00</b>	<b>\$33,228.88</b>

**FUND RECONCILIATION**

<b>Taxes:</b>	2017 FTB Filing Fee 2017 Tax Prep <b>Total Taxes Expenses:</b>	\$80.00 \$425.00 <b>\$505.00</b>
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<b>Postage:</b>	Misc. Postage <b>Total Postage:</b>	\$15.06 <b>\$15.06</b>
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<b>Services:</b>	Mark Klowden-Editor Anne Klowden Valerie Montigny-Secretarial Services Webmaster <b>Total Service Expenses:</b>	\$5,000.00 \$13,085.00 \$17,250.00 \$2,250.00 <b>\$37,585.00</b>
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<b>TOTALS FOR Jan -Dec 2017</b>	<b>\$159,798.68</b>	<b>\$180,759.54</b>
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CBB Bank - 5207 Bal. Fwd 12/31/17	\$265,776.65
CBB Bank - 3688 Bal. Fwd 12/31/17	\$110,454.05
Paypal - Bal Fwd 12/31/17	\$2,267.31
Income	\$159,735.92
Expenditures	\$180,759.54
Bank Balance 12/31/17	<b>\$357,474.39</b>
Certificate of Deposit	\$112,020.53
<b>TOTAL FUNDS</b>	<b>\$469,494.92</b>

Ending Bal from Bank Statements	December, 201
CBB - 5207	\$246,670.56
CBB - 3688 (Savings)	\$110,736.72
Paypal	\$67.11
Undeposited Funds	\$0.00
	<b>\$357,474.39</b>
Variance	\$0.00

## For Your Calendar

The 85th Annual Meeting of the American Mosquito Control Association will be held March 16-20, 2020 in Portland, Oregon.

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## Resources

- Funding opportunity: Targeted Prevention for Tickborne Diseases (R01 Clinical Trial Not Allowed) (link is external)- RFA-AI-19-037 Deadline: August 7, 2019 Contact person: Maliha Ilias (maliha.ilias@nih.gov)
- Emerging Infectious Diseases Research Centers (U01 Clinical Trial Not Allowed) (link is external)- RFA-AI-19-028 Deadline: June 29, 2019 Contact person: Jean Patterson (jean.patterson@nih.gov)
- Immune Response to Arthropod Blood Feeding (R21 Clinical Trial not allowed) (link is external)- PAR-18-860 Deadlines: June 14, 2019, February 14, 2020, October 15, 2020 Contact person: Kentner Singleton (kentner.singleton@nih.gov)

## Resources for investigators:

### —Vector Resources:

<https://www.beiresources.org/Catalog/VectorResources.aspx>

### —Repository Resources:

<https://www.beiresources.org/Home.aspx>

### —Resources for Researchers:

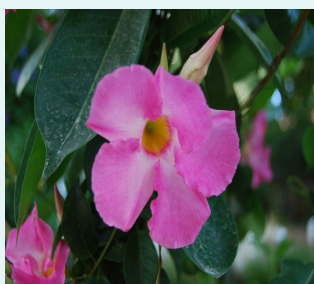
<https://www.niaid.nih.gov/research/resources>

### —Vector Population Biology database:

<https://www.vectorbase.org/popbio>

—Vector Bioinformatics database: <https://www.vectorbase.org/>

Adriana Costero, PhD  
Email: [acostero@niaid.nih.gov](mailto:acostero@niaid.nih.gov)



## Job Announcements

### John Hopkins University Bloomberg School of Public Health

Postdoctoral Position: Malaria Parasite Genomics and Epidemiology

Application due date: Open December 1, 2019 until filled

The Southern and Central Africa International Centers of Excellence for Malaria Research (ICEMR), in the Departments of Epidemiology, Biostatistics, and Molecular Microbiology and Immunology at the Johns Hopkins Bloomberg School of Public Health, is looking for a postdoctoral fellow to work on projects related to malaria aimed at understanding the role of parasite and vector genomics and molecular epidemiology in malaria transmission dynamics. Applicants interested in parasite or vector genomics are encouraged to apply. This position will blend computational, field-based, and laboratory-based methods, but the applicant is not required to have extensive experience in all three components. The ideal applicant will have a background in computation genomics and quantitative experience in epidemiology, statistics, biology, and/or ecology. An interest in public health research related to disease prevention and control in international settings is highly desirable. In addition to analytic work, the position will provide opportunities to engage with collaborators in Zambia and Zimbabwe. Applicants with, or nearing completion of, a doctoral degree in epidemiology, statistics, biology, biostatistics, or a related public health or biological field will be considered.

The successful applicant will work with William Moss, Douglas Norris, Amy Wesolowski, and colleagues on a project primarily funded by a training grant from the National Institute of Health on vector-borne disease research. The successful applicant will be joining a highly collaborative group (ICEMR), an active malaria research community (Johns Hopkins Malaria Research Institute), and opportunities to work with other computational groups (iddynamics.jhsph.edu) at JHU.

The position will be for 1-2 years, depending on applicant interest and career plans. Due to funding requirements for this position, successful applicant must be US citizen or green card holder. Interested candidates should contact Douglas Norris ([douglas.norris@jhu.edu](mailto:douglas.norris@jhu.edu)) and Amy Wesolowski ([awesolowski@jhu.edu](mailto:awesolowski@jhu.edu)) with a CV, statement of interest, and references. Applications will be considered on a rolling basis from December 1, 2019 until filled.

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## Society for Vector Ecology

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Phone: 951-340-9792  
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*Newsletter Editor*  
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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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