



SOVE Newsletter



President's Message



Dear Colleagues,

I hope everyone in the SOVE family is well, considering all the weather changes and their repercussions on our daily activities. Going forward, the first thing I am anxiously concerned with is the forthcoming annual conference at the Yosemite National Park, California coupled with the 50th Anniversary of the SOVE. And speaking of the anniversary, it will be an opportune time to shed light on the life history of the SOVE in my president's message. Before pouring out my thoughts, in the literature I came up with an article by Madon and Hopla (2005)¹ that gives me the starting point on the early history of the SOVE.

The thought of having a professional society for vector ecology goes back to 1967 when a group of concerned vector biologists (17) had started conversations on the subject. Spear-headed by Harvy Magy, California Department of Public Health, the group met on April 19, 1968 and after a lengthy discussion they formed what was then called the California Association of Vector Ecologists (CAVE) with Roy Eastwood as president, Harvy Magy vice president, and John Shanafelt secretary-treasurer. The goal of the CAVE was to evidently coalesce together individuals with different backgrounds (e.g., biologists, entomologists, vector ecologists, mammalogists, microbiologists, epidemiologists and engineers) to promote vector ecology as a discipline. As the group solidified, the CAVE drafted its By-Laws and

Constitution. The first meeting of the CAVE was held on March 20, 1971 in Fresno, California with Harvy Magy presiding. Magy gave a presentation entitled, "The Genesis and Goals of the Society of Vector Ecologists" at the annual conference of the California Mosquito Control Association (CMCA), held January 25-27, 1971; said presentation was published in the *Proceedings and Papers of CMCA* in November 1971. Also, in March 1971, CAVE was re-named as the Society of Vector Ecologists (SOVE) with the possibility of expanding membership in SOVE beyond California and abroad, representing different geographical regions; however, getting enough members by region seemed to be challenging at that time. Later in 1988, the society had to change its name to the Society for Vector Ecology (keeping the acronym SOVE unchanged) for tax-exempt status for the membership dues and moving further from professional individual interest to promoting the science and education of vector ecology.

By March 1971, SOVE had started the Newsletter and the Bulletin of the SOVE; the former in 1971 and the latter in 1974. John Shanafelt and Minoo Madon voluntarily did all the information gathering, proofing and printing of both publications. These individuals have to be commended for their love and time commitment to carry out these tasks. Minoo served as the first editor of the Bulletin with Major Dhillon as associate (for a year) from 1974-1982; James Webb 1983-91 when he resigned and Lal Mian, then associate editor, in the interim carried out the editorial tasks with assistance from the SOVE President, William Reisen, until the selection of Marc Klowden as editor in 1992. To better meet the needs of the SOVE members as well as the scientific community at large, the Bulletin was elevated

—————**President's message continued on p. 7**

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Regional Reports



NORTHEASTERN USA

ISIK UNLU Regional Director

Recently, Mercer County Mosquito Control has been working with NJDEP Division of Fish and Wildlife to trap and remove beavers from problematic areas around the county where damming has created large mosquito habitats due to flooding. To date, our trappers have successfully removed 8 beavers. We believe that successfully removing these beavers should provide a lasting solution for some of our problematic floodwater areas.

Yes, it's the off-season and it's cold and snowy, but here in Philadelphia Vector Control we've had an action packed itinerary, said Ray Delaney and Mark Baker. Late fall/early winter, they performed tick surveys throughout the Philadelphia park system with tick samples submitted for testing for Lyme borreliosis and Babesiosis. A few of the staff members have given talks at state and regional conferences discussing experiences, trials, and tribulations of our ZIKA response. Furthermore, they carried out an intercept study at a plethora of Philadelphia libraries evaluating the saturation of the ZIKA outreach campaign. Staff also attended a variety of recertification training classes on mosquitoes, ticks, bed bugs, CPR, and emergency response. In addition, staff members were completing AMCA's CDC certification modules on best integrated pest management techniques.

In mosquito surveillance activities, the program reported 260 West Nile virus positive pools with one WNV human case and 59 Zika virus cases,

all of which turned out to be travel related. In the world of rats our inspectors completed 3,312 complaints, fulfilled 6,842 inspections, and performed 80 stoppage services.

The Department of Entomology at Cornell University is recruiting for two positions, a full-time lecturer and a tenure-track assistant professor. The lecturer will join the Cornell mosquito biology program the purpose which is to educate vector biologists and public health practitioners. The tenure-track faculty member will work in Vector Biology and Vector-borne Disease Program with 60% research and 40% teaching responsibility. For more detailed job description of the two positions, please visit the website of Cornell University.

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



Regional Reports



SOUTHEASTERN REGION

Rui-De Xue

Regional Director

There are 15 travel-related Zika cases reported in Florida in 2018. Mosquito activity continued in northeastern Florida even under low temperatures. However, during the slow mosquito activity, there were more training and meeting activities carried out such as the Florida Mosquito Control Association (FMCA)'s aerial short course in Ft. Myers, in mid-January, FMCA's Dodd short course in Orlando, in late January, followed other professional meetings in the weeks ahead. Anastasia Mosquito Control District will hold the 15th annual arbovirus surveillance and mosquito control workshop in conjunction with the NE 1443 regional project 4th annual meeting and the FMCA Northeastern Regional meeting. For more information go to www.amcdsjc.org

The CDC Southeastern Center of Excellence for Vector-borne Diseases and The University of Florida Emerging Pathogens Institute will hold the Research Day on Feb 15 and Career Day in Vector-borne Disease Research on Feb 16. Celeste Philip, State Surgeon General, Florida Department of Health will give the opening remarks, Ben Beard, Deputy Director,

Division of Vector-borne Diseases, National Center for Emerging and Zoonotic Infectious Diseases, CDC, Fort Collins, Colorado will give the Keynote Speech about Public Health Entomology in the US: A CDC Perspective. Also, Stephen H. Waterman, Chief, Dengue Branch, Division of Vector-borne Diseases, National Center for Emerging and Zoonotic Infectious Disease, CDC, San Juan, Puerto Rico will give the keynote speech on Career Networking.

Rui-De Xue, President of the Florida Entomology Society and Wayne Gale, Presidents of the AMCA attended the RBM's 13th annual meeting of the Vector Control Work Group in Geneva, Feb 6-9, 2018.

James McNelly, Director of Volusia Mosquito Control District, Florida accepted the Director position of mosquito control in Cayman Islands and will leave Florida for Cayman Islands in early March. Let us wish him good luck at his new position.

Regional Reports



NORTHWEST REGION

David Sullivan
Regional Director

Greeting!

It looks as if winter is almost over in the Northwest, but one never knows for sure. That’s how I started the newsletter for March last year and it still is appropriate for this year as well.

Generally speaking the Northwest had a mild winter with normal or less than normal moisture until January, when winter hit again. According to most of the information from the states in the territory most reservoirs were at full capacity at the beginning of 2018 and they expected normal irrigation practices. Then, in January, it started to rain or snow and the current forecast is for cooler and wetter than normal weather up until late April or early May.

There haven’t been much vector issues this winter and it will probably will not start until next month. West Nile Virus Year- end data are tabulated in the next column.

The Northwest Mosquito and Vector Control Association (NWMVCA) spring workshop will be held in Richland WA at the Red Lion Inn on April 11 & 12 2018.

The NWMVCA, 2017, yearly meeting was hosted in Whitefish Montana on October 3-5, 2017. The Distinguished Service Award went to Kevin Shoemaker, Benton County MAD. This year’s meeting will be in Campbell’s Resort in Lake Chelan, Washington Oct 3-5,2018

The Montana Mosquito and Vector Control Association will hold their spring workshop at Great Falls, Montana on May 30, 2018.

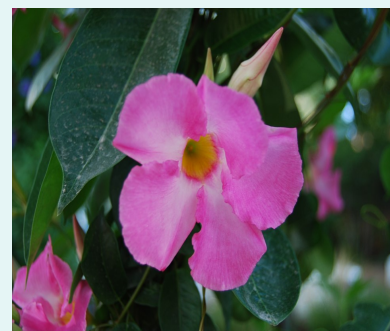
The Idaho Mosquito and Vector Control Association spring workshops will be held May 9 in Pocatello, and on May 11 at

Nampa. These meetings will focus on larvicidal and adulticidal techniques.

The new officers of the Northwest Mosquito and Vector Control Associations were announced with Ann Belchik-Moser as the president.

West Nile virus activity in 2017

State	WNV	WNV	Deaths
	4th quarter	Year total	
CO	29	68	4
ID	14	24	0
MT	3	4	0
OR	3	7	1
UT	39	62	6
WA	10	13	0
WY	4	7	0



Regional Reports



SOUTH WESTERN US

Steve Mulligan
Regional Director

Greetings,

The hot topic in the Southwest Region continues to be the establishment and spread of invasive *Aedes* mosquito species. In California there are current detections of *Ae. aegypti* in 12 counties from San Diego and Imperial Counties in the south to Madera and Merced Counties in the San Joaquin Valley. This mosquito is widespread in many cities and residential areas within these counties, with abundant population numbers in several. Populations of *Ae. albopictus* are established in Los Angeles and Orange Counties, although its spread has been more limited than with *Ae. aegypti*. *Aedes notoscriptus* has also been detected in Los Angeles County. These species, where established, pose a threat of mosquito-borne diseases, especially Zika and dengue viruses, because of extensive travel of residents to/from countries with local transmission. Importantly, these mosquitoes, because of their biting habits, have greatly impacted residents and diminished quality of life and enjoyment of property, in a State where residents are not used to such an impact.

Because of this impact and with the difficulty of effecting control through conventional methods, vector control agencies are collaborating with researchers and commercial partners to look at innovative strategies. In 2017, Verily Life Sciences and MosquitoMate partnered with the Consolidated

Mosquito Abatement District in Fresno County to launch Debug Fresno. Debug Fresno is a study to evaluate the impact of a sterile/incompatible insect technique to reduce a local *Ae. aegypti* population by releasing large numbers of *Wolbachia* infected male mosquitoes. Mating between such males and local females results in production of infertile eggs. With the release of millions of male mosquitoes, this was the largest study of its kind in the US. Debug Fresno incorporated the development of unique technologies in a real-world-environment test; and resulted in an average 68% reduction in biting female *Ae. aegypti* in the release area relative to comparative non-release areas. These are promising results, and plans are being made to continue Debug Fresno and expand in 2018.

The following was submitted by Dr. William Walton, University of California Riverside:
The CDC funded the fifth Center of Excellence (CoE), the Pacific Southwest Center of Excellence in Vector-borne Diseases at UC Davis and UC Riverside (<http://pacvec.us>). The Center will primarily serve Region 9 that includes Arizona, California, Hawaii, Nevada and the Pacific Islands (American Samoa, Federated States of Micronesia, Guam, Marshall Islands, Northern Mariana Islands and Palau) but will collaborate with colleagues in other states in the western U.S. The CoE addresses urgent public health challenges in a region that .

Regional Reports



EUROPEAN SOVE

Alexandra Chaskopoulou
Regional Director

Dear Colleagues and Friends,

What a winter this has been! From snow in Spain, river floods in Germany and France, to unusual high temperatures in Hungary, it becomes clear that one cannot simply summarize the weather patterns observed in Europe just by looking at the large scale. Nevertheless, temperature charts for January and February portray an overall “mild” weather but with a dramatic switch to cold in late February that shall prevail in early March. And with all this in mind what can one expect for the upcoming summer season and arthropod-vector activity? It is difficult to predict but I am hopeful and confident that the already existing vector surveillance programs throughout Europe and the knowledge gained from research and operational experience have increased our preparedness and response capacity. Having said that, one more Vectornet General Annual meeting is scheduled to take place in Antwerp, in the last week of February, where a big group of European experts in medical and veterinary entomology will exchange information on their recent surveillance activities and future project plans.

Integrated Mosquito Management to Protect European Citizens is the theme of the upcoming European Mosquito Control Association workshop scheduled for March 5-6 in Speyer, Germany. Looking forward to the meeting outcome!

As most of us are struggling through the low, chilling February temperatures a group of vector control experts through VectorStars are visiting the exotic Caribbean but for reasons other than the local beautiful weather. The group is visiting the hurricane affect-

ed Sint Maarten, an independent Caribbean country within the Kingdom of the Netherlands in order to assist in vector control solutions. The group’s agenda focused on needs assessment relating to vector control, stakeholder engagement (government, citizens), and local capacity building (training). VectorStars is a network dedicated in developing solutions to empower people to participate in the global fight against vector-borne diseases (for more information visit:

<http://www.vectorstars.co/who-we-are/>).

Vectorstars are organizing a panel discussion at the upcoming AMCA meeting in Kansas City, Missouri on Feb 27, in order to discuss their experiences in the Caribbean and share new approaches on how to build capacity and further support those affected by last year's storms.

Researchers of Institut Pasteur and Wageningen University & Research join forces in an Infravec2-sponsored project on odour perception of mosquitoes. Luisa Nardini (Institut Pasteur) and Chantal Vogels (Wageningen University & Research) are recording electroantennograms of female *Anopheles coluzzii* in Wageningen, The Netherlands. Infravec2 is an international and interdisciplinary research project funded by the European Commission Horizon 2020 Research Infrastructure Program (INFRAIA). The overall objective of the Infravec2 project is to integrate key specialized research facilities necessary for research in insect vector biology, to open the infrastructure for access by researchers, and to develop new vector control measures targeting the threats to human and animal health. For more information on the project, please visit: <https://infravec2.eu>.

—————EuroSOVE cont’d on p. 7.

President’s message cont’d from p. 1 ...

and renamed as the Journal of Vector Ecology in 1994 after 30 years of uninterrupted publication.

The SOVE secretary-treasurer position was held by Mino Madon from 1977-83, Frank Pel-sue 1984-87, Gilbert Challet 1988-1997, and Ma-jor Dhillon 1998-present. With the 2017 revision to the By-laws, the secretary-treasurer position was reclassified as executive director to better re-reflect the duties performed under the new position.

The SOVE Headquarters were stationed at John Shanafelt’s home, Orange County, California where John carried out all day-to-day activities from 1968-82. The headquarters were moved to the Orange County Mosquito and Vector Control District (OCMVCD) in Santa Ana, California in 1982; and were relocated again to the Northwest Mosquito and Vector Control District (NWMVCD) in Corona, California in 1998. It is worthwhile to mention that neither Shanafelt nor any of the two districts ever charged for providing office space for the SOVE staff. These individuals, including the agency management and governing boards are to be applauded for their generosity in providing office space to the SOVE headquarters.

The SOVE daily activities were carried out by Shanafelt from 1968-82; Justine Keller at OCMVCD from 1982-97; Tina Ranisaliyevich 1998-2010, Lori Beehler from 2000-10, Ruth MacDon-ald 2010-12, and Valerie Montigney 2012-present at NWMVCD. Moreover, to maintain a web presence, SOVE had acquired the services of Jared Dever from 2010-12, followed by William Van Dyke from 2012-present.

The rest of the SOVE history will be continued in the next issue of the newsletter. Look for infor-mation on SOVE membership, regions, annual conference, congress, and awards and honors.

In closing, once again I remind you to please mark the SOVE annual conference (October 7-11) on your calendar and I hope to see you in Yosemi-te this fall!

Warm regards,
Lal

¹Madon MB, Hopla CE. 2005. The History of the Society for Vector Ecology. *J Vector Ecol* 10 (1): 1-3.

Southwest regional report cont’d from p. 5.....

is a hub for commerce and travel with diverse eco-logical landscapes supporting an equally diverse group of vectors and vector-borne pathogens. UC Davis and UC Riverside will combine cutting-edge research in surveillance, vector control, genetics, epi-demiology, and sustainable, effective insecticide de-velopment to generate knowledge and technology to prevent the spread of vector-borne diseases and train a diverse “community of practice” including public health professionals and entomology experts respon-sive to the needs of the broader U.S. Southwest and West. The CoE held a kick-off organizational meet-ing in mid-November that was attended by 55 pro-fessionals including representatives from the CDC, project leaders from the two universities, public health officials, vector control practitioners and rep-resentatives from the mosquito control industry. If you would like to receive a newsletter and keep abreast of activities in the Center, visit <http://pacvec.us/index.php/subscribe/>.

Steve Mulligan

EuroSOVE report cont’d from p. 6.....

The German Environmental Agency organized in November 2017 a two-day meeting that focused on the Revision of the Technical Notes for Guidance for Product type 19 (repellents and attractants). Test la-boratories, manufacturers, consultants and govern-mental authorities were invited to discuss existing protocols for vectors including ticks, mosquitoes, fleas, bedbugs but also non-vector pests. Biogents participated in the meeting and presented their re-search findings relating to modifications of cage tests for the evaluation of mosquito repellents.

The European Center for Disease Control has published in October 2017 a technical report on “Vector Control with a focus on *Aedes aegypti* and *Aedes albopictus* mosquitoes: literature review and analysis,” accessible at: <https://ecdc.europa.eu/sites/portal/files/documents/Vector-control-Aedes-aegypti-Aedes-albopictus.pdf>

Warmest wishes from a freezing Thessaloniki,
Alex

Annual Financial Report SOCIETY FOR VECTOR ECOLOGY

Society for Vector Ecology - Annual Financial Statement JANUARY - DECEMBER 2017

BANK BALANCES- DEC 31, 2016:	\$339,104.07	
		<u>Certificates of Deposit</u>
Funds invested in Certificates of Deposit, May 2006:		\$100,000.00
Interest Earned on Certificates of Deposit thru 2016		\$11,918.45
Interest Earned Jan-Dec 2017		\$39.32
Certificates of Deposit December 31, 2017		<u>\$111,957.77</u>

	<u>INCOME</u>	<u>EXPENSES</u>
Dues/Membership	\$23,311.31	
Royalties	\$20,079.56	
Page Charges	\$19,981.50	
JVE Editing Charges	\$540.00	
Interest	\$204.40	
Other Income	\$4,791.80	
Total Income: Jan -Dec 2017	\$68,908.57	

General:		
	Visa/MC Merchant Fees	\$747.95
	Bank Service Charges	\$756.00
	PayPal Charges	\$582.89
	Business Lunches/Entertainment	\$82.98
	Office Supplies	\$0.00
	Travel Expenses/Travel Other/Misc.	\$9,185.83
	Total General Expenses:	\$11,355.65

Computer:		
	Software	\$770.87
	Webhosting/Constant Contact	\$888.76
		<u>\$1,659.63</u>

2017 - 7th International Congress		
	Registration	\$2,361.54
	Sponsorship	\$151,398.00
	Hotel	\$36,447.88
	Excursion	\$0.00
	Poster Boards	\$0.00
	Audio Visual	\$0.00
	Student Stipend	\$47,336.01
	Petty Cash/Tips	\$385.11
	Travel	\$49,793.41
	Programs	\$0.00
	Awards	\$1,052.69
	Badges/Bags/Pens	\$0.00
	Supplies	\$15.63
	Honorarium	\$2,500.00
	Hospitality/Dinner/Receptions	\$61.11
	Misc.	\$0.00
		<u>\$153,759.54</u>
		<u>\$137,591.84</u>

FUND RECONCILIATION

Taxes:		
	2017 FTB Filing Fee	\$60.00
	2017 Tax Prep	\$400.00
	Total Taxes Expenses:	\$460.00

Postage:		
	Misc. Postage	\$37.73
	Total Postage:	\$37.73

Services:		
	Mark Klowden-Editor	\$5,000.00
	Anne Klowden	\$12,455.00
	Valerie Montigny-Secretarial Services	\$12,875.00
	Webmaster	\$1,800.00
	Total Service Expenses:	\$32,130.00

CBB Bank - 5207 Bal. Fwd 12/31/16	\$226,063.32
CBB Bank - 3688 Bal. Fwd 12/31/16	\$110,288.97
Paypal - Bal Fwd 12/31/16	\$2,751.78
Income	\$222,628.79
Expenditures	\$183,234.85
Bank Balance 12/31/17	\$378,498.01

Certificate of Deposit	\$111,957.77
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TOTAL FUNDS	\$490,455.78
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		<u>Ending Bal from Bank Statements</u>	<u>December, 2017</u>
	CBB - 5207	\$265,776.65	
	CBB - 3688 (Savings)	\$110,454.05	
	Paypal	\$2,267.31	
	Undeposited Funds	\$0.00	
		<u>\$378,498.01</u>	

TOTALS FOR	Jan -Dec 2017	\$222,668.11	\$183,234.85
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	Variance	\$0.00
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Please mark your calendar
with the forthcoming

48th Annual Conference

Society for Vector Ecology

October 8-11, 2018

Tenaya Lodge, Yosemite National park

California



SOVE Congress Photos



Congress President—Norbert Becker (L)
SOVE President—Michael Kaufman (R)



Lifetime Achievement Awardee:
Dan Strickman



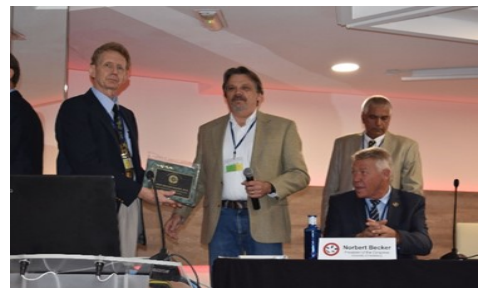
Distinguished Achievement Awardee—G. Lanzaro



Distinguished Achievement Awardee— V. Robert



Distinguished Service Awardee—M. Miranda



Distinguish Service Awardee— W. Walton



Our future vector ecologists



Poster session in progress

For Your Calendar

The 84th Annual Meeting of the American Mosquito Control Association will be held February 26—March 2, 2019 in Orlando, Florida.

Brazilian SOVE meeting will be held September 2-5, 2018 in Recife, Brazil. For more info check with Major Dhillon at mdhillon@northwestmvcd.org.

Jobs

Assistant Professor

Wanted a tenure-track Assistant Professor in Environmental/Occupational Health at the Dept. of Health Science and Human Ecology, California State University, San Bernardino, CA. For complete job description and application process, follow the link:

<https://www.governmentjobs.com/careers/csusb/jobs/1905220/health-science-environmental-health-science-assistant-professor-tenure-track?page=2&pagetype=transferJobs>
Position open until filled.

Job announcement: TropIQ is hiring an enthusiastic and creative research technician. For more information please visit their website at <http://www.tropiq.nl/about-us/careers/> reported Alex Chaskopoulou (achaskopoulou@ars.ebcl.org).

Resources

FREE Resources for Investigators are available!

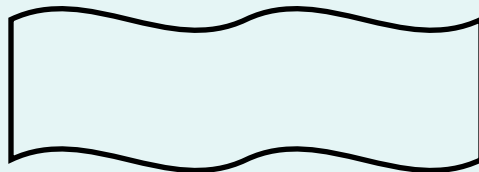
Please visit:

<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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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.

SOVE Board Members, Editors, Webmaster

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