



September 2019

# BARSCREEN BEE

The Official Newsletter of the Northern Sacramento Valley Section  
of the California Water Environment Association



<http://nsvs.cwea.org/>

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<http://nsvs.cwea.org/>

The Barscreen Bee is a publication of the Northern Sacramento Valley Section of the California Water Environment Association.

## Welcome to Redding for Training

**Tuesday September 17, 2019**

**McConnell Foundation**

**800 Shasta View Drive**

**Redding, CA 96003**

- 8:30 **SIGN-IN and NETWORK** with your peers over coffee & donuts.
- 9:00 **EMERGENCY REPAIR— WHAT TO DO WHEN A 30-INCH SEWER INTERCEPTOR LINE FAILS**  
Kevin Garner, Collection System Supervisor, City of Redding
- 9:50 **GENERATOR PROGRAM—ARE YOU READY IF THE POWER GOES OUT?**  
Dennis Gordon, Peterson Power Systems
- 10:40 **THE INS AND OUTS OF SEWER PIPE LINING**  
Nick Visconti, Assistant Public Works Engineer, City of Redding
- 11:30 **REGULATORY PROGRAM UPDATE: PYRETHROIDS, TOXICITY, AND OTHER TOPICS**  
Jeremy Pagan, Central Valley Regional Water Quality Control Board
- 12:20 **LUNCH \$10.00 cash or check payable to CWEA NSVS**  
Catered by From The Hearth
- 1:30 **TOUR: IRON MOUNTIAN MINE WASTEWATER TREATMENT FACILITY**

**Attendees of technical sessions will be issued up to four Continuing Education contact hours toward CWEA Technical Certification and/or 4 SWRCB education points toward wastewater certification.**

To find out if a class qualifies for CWEA continuing education in your area of certification, go to the CWEA web site:

[http://www.cwea.org/pdf/tcp/\\_TrainingRelevancyList.pdf](http://www.cwea.org/pdf/tcp/_TrainingRelevancyList.pdf)

All wastewater relevant sessions count as one education point per 50 minute presentation for the purpose of SWRCB operator certification.

# Training Day Report from July 17, 2019

By Alex Fastro and Tracy Wyhlidko

The North Sacramento Valley Section (NSVS) of the California Water Environment Association (CWEA) held their third training of the year in Orland, CA. The morning began with Lester Ares of Inductive Automation (IA) who presented an overview of their SCADA system which uses Web-launched, Java Based SCADA Software. Lester explained how newer software systems can provide an architecture which is open, adaptable and expandable to accommodate future growth and expansion in any complex wastewater system. He also described the training benefits of Inductive Automation software including Inductive University which is free and on-line.



This new SCADA platform gives the operator more hands on power to optimize their own treatment processes.

Jerry Eppler, a software specialist with IA covered a lot more detailed information of the benefits of the open architecture used by IA. He explained the ability of advanced software to work seamlessly across all platforms (Windows, UNIX) and control equipment such as PLCs and other third-party software systems. New software is capable of sending out varied Alarm Pipelines including phone voice messaging by system operators, email and texting to O&M staff on a real time basis. New IA automation software are also more cost-effective because they can automatically push out new software updates to all system clients. This avoids bringing in expensive third party programmers to change client computers one by one.

Our second speaker, William Ray of WRC Consulting LLC, discussed important steps to ensure successful Sampling and Field Analyses for any form of environmental field testing. Good preparation is first rule in environmental sampling and analysis. Here the first key element is having a solid and well-prepared Sampling Plan in place. Know your sampling location well and mark it with a sign (as shown with the blue signs in the photos below)! Have a training program in place for any new or replacement staff included in your sampling plan. Never assume that experience will negate the need for training! Two key ways to assure success is to provide recurring refresher training and plan on some form of onsite assessment of your procedures.

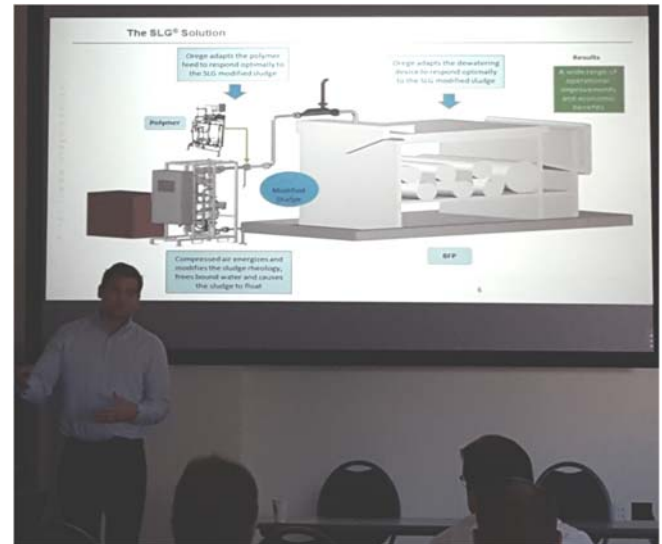


Something to watch out for is "Procedure Creep". This is a situation where the job is done but not according to the formal procedure. This will lead to a situation where the sampling will be done differently by different people. That is to be avoided!!

Believe it or not.... the aim of all this is to ultimately get results that are legally defensible! This means that your position in court or even just an investigation is defensible from challenge. Remember this even when you are just discussing things with your peers. Courts determine compliance with the law but not scientific truth. Also remember that laboratory records and witnesses are a support to the facts (that is "records are paramount")... but you are personally on the spot when you are out in the field.

## Training Day Report from July 17, 2019

The third presentation was Mr. Ross Tate, Director of Sales from Orège company speaking about Innovate Sludge Treatment Solutions. Orège technology creates an air + sludge emulsion, affectionately known as “floating sludge”. Equipment is used to inject air into sludge in a violent compression and decompression turbulent & fast shearing reaction. Polymer and pressure reducing valves are used. The technology can accommodate from 50-400 gallons per minute. The process breaks up the “extracellular substance” (also known as “gelatinous goo”) which takes up the space between bacterial cell colonies. The process creates a very efficient, stable floc. The value of the technology is in the cost savings of sludge hauling. Fewer wet tons of sludge have to be hauled off site. The “cake” is dryer. The liquid filtrate is also cleaner, creating less loading going back to the treatment plant. Orège proves their results during a field test conducted at their client’s treatment plant. There is a significant return on investment with this technology.



Examples of facilities that have installed Orège technology include Allentown, PA which was able to pay back the cost of the equipment within 3 years due to the reduction in landfill tipping fees (less sludge was hauled), and savings on polymer (less polymer was used). Another wastewater facility in Gresham, OR had an approximate 4 year payback due to the increased cake solids of their sludge.

The final presentation of the day was Kevin Kennedy with Jacobs Engineering speaking about. “Maximizing Benefits through Water and Wastewater Master Planning.” Mr. Kennedy stated that repair and replacement of equipment was barely discussed in earlier versions of the “Master Plans” in the water and wastewater industry. However, integrated planning that deals with the capital improvements, asset management, financial plans, assessment of pipe/lift stations, and future rate increases is more beneficial in the long run.

Plans that integrate water, wastewater, and stormwater planning can end up encouraging technologies like recycled water use, decreasing the need for treatment plant expansions and decreasing overall costs. Bringing multiple utilities together for master plans allows for the exchange of information between utilities. Cost saving solutions can often be found with a contract engineering firm willing to create integrated master plans.



### Mark Protine

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# IT'S AWARD NOMINATION TIME AGAIN! Due Oct 31st.

- 1) Visit the website [awards.cwea.org](https://awards.cwea.org)
- 2) Find Category information
- 3) Watch the tutorial video
- 4) Click APPLY button on category page
- 5) *Log in using the same credentials as [MyCWEA.org](https://MyCWEA.org)*
- 6) Fill Out Application
- 7) Click **Save and Finalize** to submit

- **Collection System of the Year**

Given in recognition of outstanding maintenance programs, regulatory compliance and safety & training procedures. Awards are given in three categories: Small, Medium and Large.

- **Collection System Person of the Year**

Recognizes an individual for their innovation and excellence in collection systems maintenance.

- **Community Engagement & Outreach Best Use of Social Media**

Recognizes achievements in promoting awareness and understanding of water quality issues through the use of social media.

- **Electrical Instrumentation Person of the Year**

Recognizes significant contributions to the field and an individual's contribution to CWEA.

- **Engineering Achievement**

Recognizes outstanding projects by an individual, group or agency.

- **Laboratory Person of the Year**

Recognizes involvement in projects that advance the science of laboratory technology and an individual's contributions to CWEA.

- **Mechanical Technician of the Year**

Recognizes outstanding performance, dedication to the job, and for sharing knowledge of maintenance procedures.

- **Operator of the Year**

Recognizes outstanding contributions to the operations of wastewater treatment facilities and the application of knowledge to improve plant processes.

- **Outstanding Young Professional of the Year**

Recognizes professionals who demonstrate excellence in the profession and are under the age of 35.

- **P3S Person of the Year**

Recognizes P3S professionals for exceptional achievement and contribution to the profession while being an active member of the CWEA.

- **Plant of the Year (Small, Medium, Large)**

Recognizes accomplishments in compliance, innovative practices, cost effectiveness, and superior plant performance in small, medium and large categories.

- **Research Achievement**

Recognizes outstanding engineering research by an individual, group, or agency.

- **Safety Plant of the Year**

Awarded in three categories: small, medium and large. Criteria include number of injuries, lost-time accidents, record keeping, in-house training, emergency response and program implementation.

- **Supervisor of the Year**

Recognizes successful mentoring of team members, professional development, and effective communication.

Additional Local Section award categories:

- **Outstanding Service Award**

- **Inspirational Award**

- **Lifetime Achievement Award**

- **Administrative Professional of the Year**  
(See next page)

# Northern Sacramento Valley Section – CWEA

## 2019 Individual Award Nomination Form

- \_\_\_\_\_ Outstanding Service Award-*NSVS Award*
- \_\_\_\_\_ Inspirational Award-*NSVS Award*
- \_\_\_\_\_ Lifetime Achievement Award-*NSVS Award*
- \_\_\_\_\_ Administrative Professional of the Year-*NSVS Award*

**Nominations must be e-mailed by Monday, October 31, 2019**

**to the address below.**

All nominees must be members in good standing of the Northern Sacramento Valley Section of CWEA.  
Administrative Professional does not need to be a NSVS or CWEA member

Name of Nominee: \_\_\_\_\_ Title: \_\_\_\_\_

Employer: \_\_\_\_\_

Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Nominator: \_\_\_\_\_ Title: \_\_\_\_\_

Employer: \_\_\_\_\_

Address: \_\_\_\_\_

Signature: \_\_\_\_\_ Phone Number: \_\_\_\_\_

- **On an attachment describe why this person/agency qualifies to receive this award. Use specific examples whenever possible. Attach any supporting information.**

**E-mail  
Applications to:**

**Brianna Barton  
Carollo Engineers**

**E-mail: [BLBarton@carollo.com](mailto:BLBarton@carollo.com)  
Phone: (916) 576-4718**

# NORTHERN SAFETY DAY 2019



## 34th Annual Northern Safety Day

Wednesday, October 23, 2019

Water professionals from all over California will gather at the Yolo County Fairgrounds in Woodland to learn the real **RISKS OF COMPLACENCY** and improve their professional knowledge around safety, experience hands-on equipment demonstrations and network with fellow attendees and exhibitors.

### EARLY BIRD DEADLINE: OCTOBER 4, 2019

*Register by October 4th and save \$25!*

Earn up to 5 CWEA Technical Certification Program Contact Hours, California Department of Pesticide Regulation (DPR) approved Continuing Education hours through the Pesticide Applicators Professional Association (amount TBD).

### Who should attend:

- O&M Leaders
- Mechanics
- Electricians
- Instrumentation Technicians
- Inventory Managers
- Maintenance Schedulers
- Wastewater Operators
- Collection Systems Crews

### NEW: PESTICIDES APPLICATORS REFRESHER COURSE



See PAPA flyer for details



Weather at the Yolo Fairgrounds can be unpredictable. Please dress in layers in case of warm, cold or inclement weather. Lunch to be served outside.

**REGISTER ONLINE AT MYCWEA.ORG**

# Northern Safety Day | October 23, 2019

7:00 a.m.	<b>Coffee &amp; Donuts and Registration in Home Arts Building</b>			
8:00 - 8:50 a.m.	<b>Opening General Session - Complacency Kills: CAL-OSHA Stats and Top 10 Contributing Factors to Accidents</b> OSHA Speaker TBD			
9:00 - 9:50 a.m.	<b>OSHA Regulatory Update</b> OSHA Speaker TBD	<b>Review of New Safe Excavation Standard</b> Tony Marino, Executive Officer, State of California/Cal-Fire	<b>Forgotten Aspect of Fall Protection: The Silent Killer and Disabler</b> Andy Bull, CH Bull Co.	<b>PAPA sessions</b> Topic TBD
9:50 - 10:35 a.m.	<b>Exhibitor Time Outside and in Home Arts Building</b>			
10:35 - 11:25 a.m.	<b>Confined Space: Permit Requirements</b> Rogelio "Roy" Horta, CHST, ehs International, Inc.	<b>Manhole Inspection</b> Andy Morrison, AM Consulting	<b>Managing Safety by Managing Human Error</b> Dave Patzer, DKF	<b>PAPA sessions</b> Topic TBD
11:30 - 1:00 p.m.	<b>Lunch Outside in Rotary Park followed by Exhibitor Time Inside Home Arts Building and Outside</b>			
1:00 - 1:50 p.m.	<b>Safety Roundtable: Lessons Learned</b> Dave Martin, Napa San	<b>Traffic Control Awareness</b> John Balestrini, Balestrini Consulting	<b>Bloodborne Pathogens Awareness</b> Rogelio "Roy" Horta, CHST, ehs International, Inc.	<b>PAPA sessions</b> Topic TBD
1:50 - 2:35 p.m.	<b>Exhibitor Time Outside and in Home Arts Building</b>			
2:35 - 3:25 p.m.	<b>Closing General Session - Crises and Calamities: Handling High-Profile Workplace Accidents from an Attorney's Perspective</b> Kevin D. Bland, ESQ, Ogletree Deakins			
3:25 - 3:45 p.m.	<b>Door Prizes - Home Arts Building</b>			

## SESSION AND SPEAKER INFO

**More Info Coming Soon**

**DISCLAIMER:** CWEA and its Board, members, and volunteers are not responsible for the actions of speakers or the contents of their papers, and no endorsement is implied or given of any persons or their philosophies, ideas, or statements, nor of any products or processes, nor of any organizations or companies who volunteer to serve as speakers at the conference or exhibitors who purchase display space in the exhibit hall.

CWEA is not responsible for theft of or damage to personal or agency/company property whether intended to be used for CWEA purposes or not.

# NORTHERN SAFETY DAY 2019

## Registration Form

### Early Bird (due 10/4/19)

☐ Member \$138 ☐ Non-Member \$234

Registration includes BBQ lunch

☐ I am a speaker for this event.

### Regular (after 10/4/19)

☐ Member \$163 ☐ Non-Member \$259

Registration includes BBQ lunch

### Student

☐ Full-Time Student - No Cost

Provide proof of college attendance w/minimum of 9 units.

☐ I plan to attend one or more of the Pesticide Applicators Professional Association (PAPA) sessions.

Student's School \_\_\_\_\_

**PLEASE PRINT OR TYPE INFORMATION** (attach form with additional attendees)

NAME FOR BADGE: \_\_\_\_\_

FIRST NAME: \_\_\_\_\_ LAST NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

AGENCY/COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

PHONE: \_\_\_\_\_ E-MAIL: \_\_\_\_\_

EMERGENCY CONTACT: \_\_\_\_\_ EMERGENCY PHONE: \_\_\_\_\_

☐ CWEA MEMBER ☐ WEF MEMBER or ☐ CA-NV AWWA MEMBER (must have current membership for member rates)



**Special Services:** ☐ Please check here if you require special accommodations to fully participate.

Attach a written description of your needs and return it to CWEA 30 days before the conference.

**Dietary restrictions:** ☐ Please check here to indicate dietary restrictions \_\_\_\_\_

Please indicate payment method: ☐ CHECK ☐ PURCHASE ORDER (attached)

☐ VISA ☐ MASTERCARD ☐ DISCOVER ☐ AMEX

NAME OF ACCOUNT HOLDER: \_\_\_\_\_

ACCOUNT NUMBER: \_\_\_\_\_

EXPIRATION DATE: \_\_\_\_\_ BILLING ZIP CODE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

### Registration Options:

1. Register online at [mycwea.org](http://mycwea.org)

2. Send registration form and payments to:

**CWEA Workshops**

**7677 Oakport Street, Suite 600, Oakland, CA 94621-1935**

**Fax (510) 382-7810**

Please make checks payable to: CWEA NSD 2019

### REGISTRATION QUESTIONS?

Contact MEMBER SERVICES: 510.382.7800 x0

Full payment or purchase order is required to process registrations. If you have to cancel, written cancellation notice is required and must be received at least 15 days prior to the workshop date. A 25% service fee shall be retained on all cancellations. No refunds shall be given for cancellations made less than 15 days prior to the event. A written special service request is required 30 days in advance.

Need help? We're here for you!

**Contact MEMBER SERVICES**

**510.382.7800 x0**

[memberservices@cwea.org](mailto:memberservices@cwea.org)

Join us as an Exhibitor/Sponsor

**Contact: Christine Carchia**

**510-746-7415**

[ccarchia@cwea.org](mailto:ccarchia@cwea.org)

REGISTER ONLINE AT MYCWEA.ORG



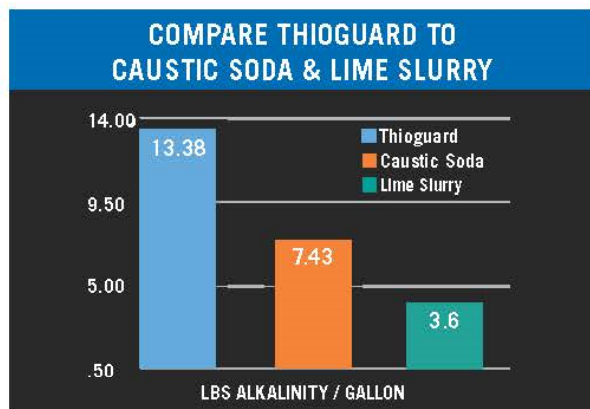
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# NSVS Calendar of Events

- **DATE CHANGE TO TUESDAY,**  
**Sep 17, Training, Redding**
- Wed, Oct 9, 10 a.m. Board Meeting
- Wed, Nov 13, To be determined
- Wed Dec 11, 10 a.m. Board Meeting
- Sat January 18, 2020 Annual Awards and Dinner Banquet 6-9 p.m.

Board meetings are typically held at the Berry Patch Restaurant in Orland, CA. Contact [twyhldko@cityofredding.com](mailto:twyhldko@cityofredding.com) or call 530-224-4319 for location information.

Members are always welcome at the board meetings.



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2218 Railroad Avenue  
Redding, California 96001  
voice 530.243.7234  
fax 530.243.7494  
[info@basiclab.com](mailto:info@basiclab.com)

A person in a canoe is paddling across a calm, blue lake. The water is still, reflecting the surrounding landscape. In the background, there are large, forested mountains under a clear sky. The overall scene is peaceful and serene.

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## EMPLOYMENT OPPORTUNITY

### CITY ENGINEER

Salary Range: \$36.05- \$48.34/Hour

Closing Date: September 10, 2019, 5:00 p.m.

Postmarks and faxed applications not accepted.

<https://www.ci.anderson.ca.us/departments/personnel/index.php>

# Jobs found at City of Redding <https://www.governmentjobs.com/careers/reddingca>

Job Title ^	Job Type	Salary	Closing
Project Coordinator (Construction)	Full-Time	\$78,468.00 - \$110,412.00 Annually	Continuous
Public Works Maintenance Worker	Full-time, Temporary, and Seasonal	See Position Description	Continuous
Public Works Supervisor - Storm Drain Utility <b>New</b>	Full-Time	\$63,576.00 - \$89,460.00 Annually	09/18/19
Public Works Supervisor - Streets <b>New</b>	Full-Time	\$63,576.00 - \$89,460.00 Annually	09/09/19
Public Works Supervisor - Water	Full-Time	\$71,256.00 - \$100,260.00 Annually	09/15/19



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 Cell: (707) 689-8181  
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 e-mail: twarnock@paceengineering.us

# Jobs found at City of Chico <https://www.governmentjobs.com/careers/chico>

Job Title ^	Job Type	Salary	Closing	Posted	Category	Department	Location	Job Number
Assistant Planner	Full Time	\$47,673.60 - \$65,707.20 Annually		06/05/19	Engineering / Planning and Development / Public Works	Public Works - Engineering	Chico, CA	19-00116
Associate Engineer	Full Time	\$66,248.00 - \$91,353.59 Annually	Continuous	06/13/19	Engineering / Public Works / Management / Professional	Public Works - Engineering	Chico, CA	19-00120
Equipment Mechanic II (Signing Bonus!)	Full Time	\$42,120.00 - \$58,073.60 Annually		06/05/19	Fleet Services / Public Works	Public Works - Operations &	Chico, CA	19-00115
Senior Civil Engineer	Full Time	\$84,947.20 - \$117,124.80 Annually		08/15/19	Engineering / Public Works / Management / Project Management	Public Works - Engineering	Chico, CA	19-0013
Wastewater Treatment Plant Operator III	Full Time	\$53,185.60 - \$73,403.20 Annually		10/02/18	Public Works / Waste Management / Professional / Miscellaneous / Wastewater	Public Works - Operations & Maintenance	Chico, CA	18-00086

# Jobs listed on [www.cawaterjobs.org](http://www.cawaterjobs.org)



## Utilities Maintenance Worker I/II

City of Woodland Woodland, CA, USA

Sep 03



## Wastewater Plant Operator I/II/III

City of Vacaville Vacaville, CA, USA

Aug 27



## Utilities Operations Specialist I or II (DOQ)

Tahoe City Public Utility District Tahoe City, CA

Aug 23



## Industrial Waste Technician

City of Roseville Roseville, California, USA

Aug 22



## Environmental Compliance Technician

Sacramento Suburban Water District Sacramento, CA, USA

Aug 19



## Grade III Wastewater Operator

Sewerage Commission Oroville Region Oroville, California, USA

Aug 16



## Distribution Operator III/Chief Distribution Operator

El Dorado Irrigation District Placerville, CA, USA

Aug 09



Water and Wastewater  
Process Equipment

MARK HUMBERSTONE

T 925.225.1900

C 925.785.1602

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[www.miscowater.com](http://www.miscowater.com)

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**Alex Ambrosi**

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[www.aquadyneassociates.com](http://www.aquadyneassociates.com)

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San Rafael, CA 94901



**2019**  
**NSVS-Northern Sacramento**  
**Valley Section Advertising**



Advertisements in the bi-monthly Northern Sacramento Valley Section (NSVS) "Barscreen Bee" newsletter may be purchased for:

\$75 per year for a business-card size advertisement,

\$150 per year for a half page advertisement (8.5 x 5.5 inches), or

\$300 per year for a full page advertisement (8.5 by 11 inches).

**APPLICATION (check one):**

NSVS Advertisement for \$75/year \_\_\_\_\_ or \$150/year \_\_\_\_\_ or \$300/year \_\_\_\_\_

**DATE:** \_\_\_\_\_

**NAME** \_\_\_\_\_

**AGENCY** \_\_\_\_\_

**TITLE** \_\_\_\_\_

**MAILING ADDRESS** \_\_\_\_\_

**CITY** \_\_\_\_\_ **STATE** \_\_\_\_\_ **ZIP** \_\_\_\_\_

**PHONE** \_\_\_\_\_

**E-MAIL ADDRESS** \_\_\_\_\_

**Submit application and payment to the NSVS Secretary/Treasurer:**

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