



May 2019

BARSCREEN BEE

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



www.nsvs.cwea.org

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(530) 224-6030
rbailey@cityofredding.org

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(916) 220-2949
alexfax@sbcglobal.net

1-Year Director

John Dobson
City of Redding
(530) 225-4443
jdobson@cityofredding.org

Newsletter Editor
Tracy Wyhlidko
Email: Newsletter.Editor.
CWEA.NSVS@outlook.com
(530) 224-4319 or email:
twyhlidko@cityofredding.org

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

Welcome to Oroville for Training

Wednesday, May 22, 2019

Feather River Tribal Health
2145 5th Avenue, Oroville, CA

8:30 **SIGN-IN and NETWORK** with your peers over coffee & donuts.

9:00 **BIOMIX COMPRESSED GAS MIXING TECHNOLOGY**
Brad Leidecker, Coombs-Hopkins

9:50 **TREATMENT FACILITY INDUSTRIAL HEALTH AND SAFETY**
Michael Alvarez, Cal-OSHA

10:40 **CARTEGRAPH OMS, ASSET MANAGEMENT SOFTWARE
FOR THE WASTEWATER UTILITY**
Quint Pertzsch, Cartegraph

11:30 **OVERCOMING DEWATERING CHALLENGES**
Alex Daijogo, Wastewater Treatment Operator, City of Galt

12:20 **LUNCH** \$10, cash or check payable to CWEA NSVS

1:15 **GUIDED TOUR: FEATHER RIVER FISH HATCHERY**
5 Table Mountain Boulevard, Oroville, CA 95965
Guide phone # 530-534-2340, Office# 530-538-2222

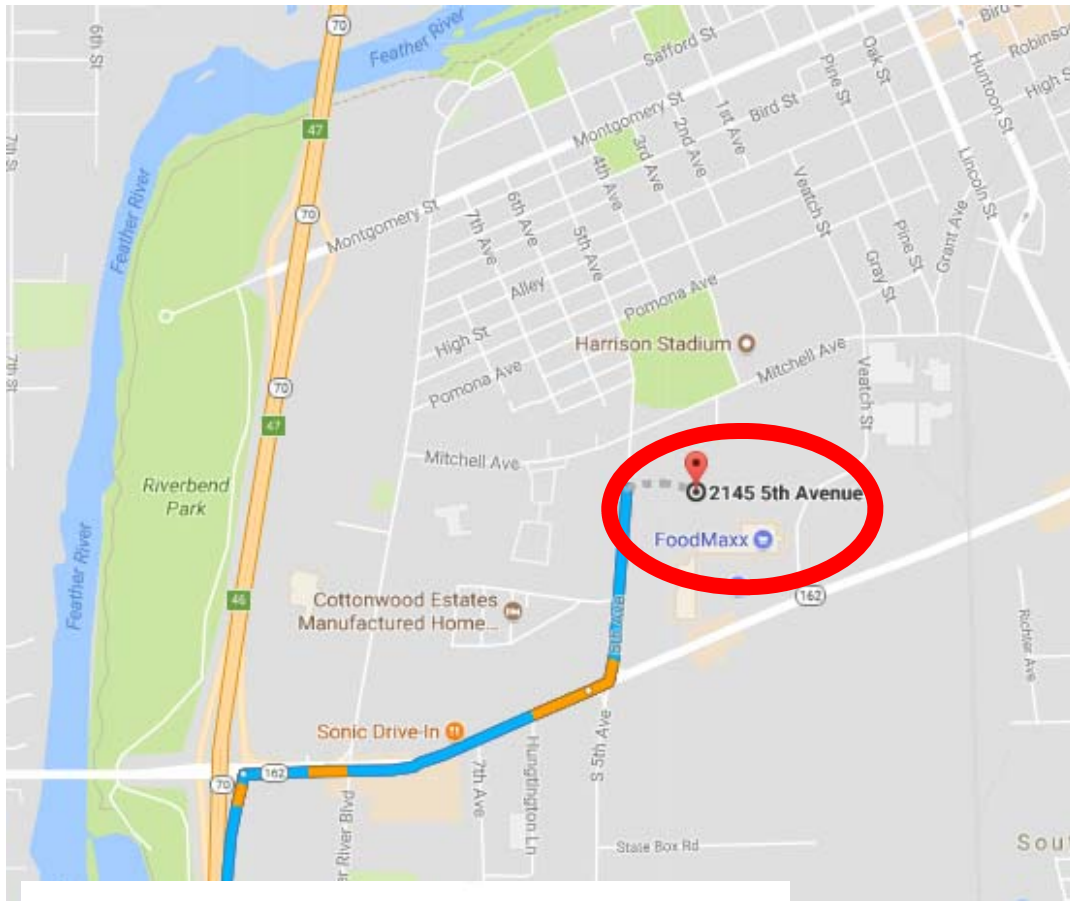
**Attendees of technical sessions will be issued up to four Continuing
Education contact hours toward CWEA Technical Certification
and/or 4 SWRCB education points toward wastewater certification.**

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>

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

Welcome to Oroville for Training
Wednesday, May 22, 2019
Feather River Tribal Health
2145 5th Avenue, Oroville, CA



**Directions to the Training at
Feather River Tribal Health
2145 5th Avenue, Oroville**

From the North:
Take I-5 south to Hwy 99
south. Follow to Hwy 149/70
to Oroville. Take exit #47
Montgomery Street.
Turn Right on 5th Ave
Destination is on the left past
Mitchell Ave.

From the South:
Take Hwy 70 to Oroville.
Take exit #46 to Hwy 162
Turn Left on 5th Ave
Destination is on the Right



Brad E. Leidecker, M.S., P.E.
Sales Engineer

2855 Mitchell Drive, Suite 215
Walnut Creek, CA 94598
Email: brad@chcwater.com

(925) 947-6733
Cell (925) 876-0646
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"Representing quality equipment for the treatment of water and wastewater"

TOUR OF THE YUBA CITY WASTEWATER TREATMENT FACILITY

Operator of the year (2018) Brandon Sanford led the tour at the Yuba City Wastewater Treatment Facility. Brandon described the treatment process, while showcasing the recent and future improvements to the plant, in addition to the construction hurdles along the way. Since it was an active construction site, we were fortunate to see the improvements in process.



Welcome to Oroville for a Tour Wednesday, May 22, 2019 1:15 p.m.

Feather River Fish Hatchery

Feather River Hatchery raises Chinook salmon and steelhead along the Feather River, just below Lake Oroville. An underwater viewing window displays migrating salmon or steelhead during the approximate dates of mid-September through June. Visitors will enjoy their time at Feather River Hatchery any time of year and great fishing is available on Lake Oroville and several nearby rivers.

Visitor Information

Hours

Open 7:00 a.m. - 3:00 p.m. daily

Phone Number

(530) 538-2222

Address

5 Table Mountain Boulevard, Oroville, CA 95965

Directions

From Highway 70, take the Grand Avenue / Nelson Avenue exit. Continue east on Grand Avenue. Make a right turn onto Table Mountain Boulevard and continue S/B down the hill toward the river. The entrances to the hatchery are just before you cross over the river.

[MAP](#)

Additional info

The Feather River Fish Hatchery is divided into 2 sections. The fish barrier dam, observation platform and underwater viewing are located on the east side of Table Mountain Boulevard. The underwater viewing windows are best for viewing fish from mid-September through June. The spawning room, hatchery and rearing ponds are located on the west side of Table Mountain Boulevard. Salmon spawning operations can be observed Monday through Friday beginning mid-September until mid-November. Steelhead spawning can be observed mid-December through mid-February. Fish are present in the rearing ponds all year. The annual [Oroville Salmon Festival](#) is held on the 4th Saturday of September at the Feather River Fish Hatchery and downtown Oroville.



Successful steelhead angler!



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[Email Feather River](#)

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Training Day Report, City of Yuba City, March 27, 2019

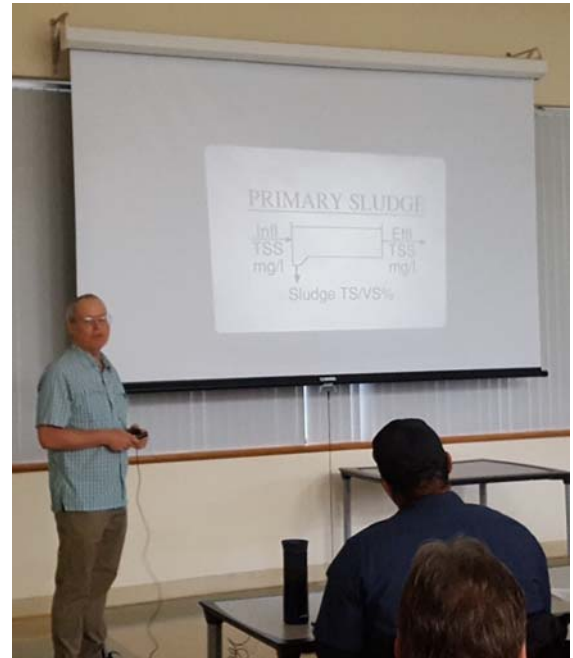
By Alex Fastro, CWEA NSVS Director

We at the Northern Sacramento Valley Section of CWEA would like to thank the City of Yuba City and its Utilities staff for providing a generous and welcoming venue for our first training session of 2019 in Yuba City. We had our largest attendance in recent memory at this event with 55 attendees. Food and beverages were sponsored by the City and the Section and were enjoyed by all attendees. The presentations were all excellent. They proceeded as follows;

BIOSOLIDS GENERATION AND PROCESSING

Dan Cortinovis, PE Consulting Civil Engineer

The morning began with Dan Cortinovis, a consultant and author who offered a presentation on “Biosolids Generation and Processing.” Dan discussed the origins of biosolids through the various wastewater treatment processes. He explained the unique characteristics of biosolids produced by each of the primary, bio-filter and activated sludge processes. He described various technologies and equipment used to process these byproducts using sedimentation tanks, gravity thickeners, dissolved air flotation systems, screens, belts, and centrifuges. He discussed the dissolved air flotation thickening in great detail.



BIOSOLIDS REGULATION AND FUTURE OUTLOOK

Kathryn Gies, Engineering Manager, West Yost Associates

Kathryn Gies of West Yost gave a very interesting insight into upcoming legislation which will impact the disposal of biosolids in California by wastewater treatment plants. Kathryn explained that to mitigate the impact of climate change the new regulations in SB 1383 will be going into effect soon. Its goals will be to divert organics from landfills (75% by 2015) and reduce methane emissions (40% by 2030).

The diversion of organics from landfills will include biosolids from wastewater facilities. Biosolids are used by many California landfills as alternative daily cover (ADC) of landfill material. They are also disposed through other methods such as landfill disposal, incineration, and surface disposal. Approximately 20% of the 733,000 dry tons of biosolids annually produced in this state are used as ADC while the other methods mentioned are about 15% of the annual total.



This will have a large impact on all treatment facilities both directly in tillage costs or on the cost of Class Type A / B biosolids disposal. Altogether the cost of all biosolids disposal will increase significantly as the cost of other disposal options increase proportionally as demand increases. It is uncertain how much those costs will increase at this time. It certainly will have a large impact on biosolids disposal methods used in the future.

Training Day Report, City of Yuba City, March 27, 2019, continued

Kathryn then talked about the City of Galt and the City of Davis who are in the process of or planning on disposing Class B biosolids on their own properties. They will experience significant cost savings going forward by using this option.

There are side benefits from the use of recycled water for irrigation on crops. There is also the option of commercial land application sites which is becoming more costly and not readily available to many facilities.

In addition, new technologies are being piloted and are even being brought forward to the market. They include hydrolysis using the LYSTEK process in Fairfield. LYSTEK is an independent startup company which is open for use by wastewater facilities. In addition some facilities are using thermal drying processes such as Synagro at Regional San Sacramento and BioForce Tech at Silicon Valley Clean Water in the Bay Area. Both treatment methods create soil amendments which can be reused commercially without restrictions.

The informal rulemaking process has been in place since January 2019 and they should be adopted by January 2020. They will then be fully effective by January 2022 and enforceable by 2024. Some key elements include:

- Local ordinances on land application cannot be more restrictive than Federal or State regulations.
- Jurisdictions that divert organic waste will need to procure products from diversion like compost and biogas.
- Biosolids can be considered part of the 25% of organics that are acceptable at landfills.

PIPE BURSTING ASBESTOS CEMENT PIPE, HOW TO AND REGULATIONS OF...

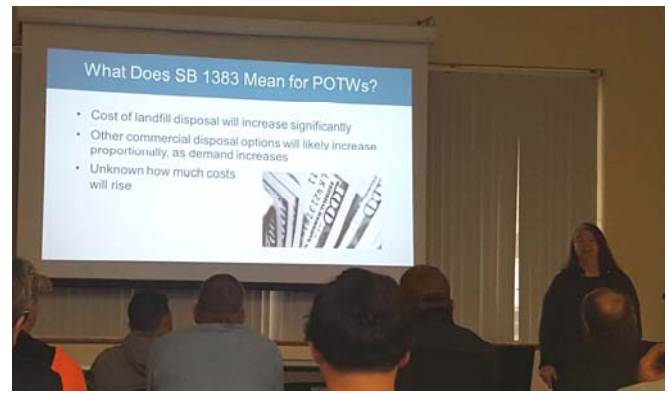
Josh Vandiver, Wastewater Utility Manager, City of Redding Utilities Department

Josh Vandiver discussed the method of pipe bursting used in Redding to replace old or substandard sewer lines. In particular the method is employed currently by contractors who work for the City of Redding while replacing ACP (Asbestos Concrete Pipe). A significant part of the City of Redding has ACP in the ground which creates major difficulties to replace as it ages.

Some California counties are un-designated for the removal of asbestos under strict statutes common in other counties. Consequently in ground ACP can be handled under less restrictive Federal regulations

and best management practices (BMPs) in these counties. These counties include Shasta and Placer County.

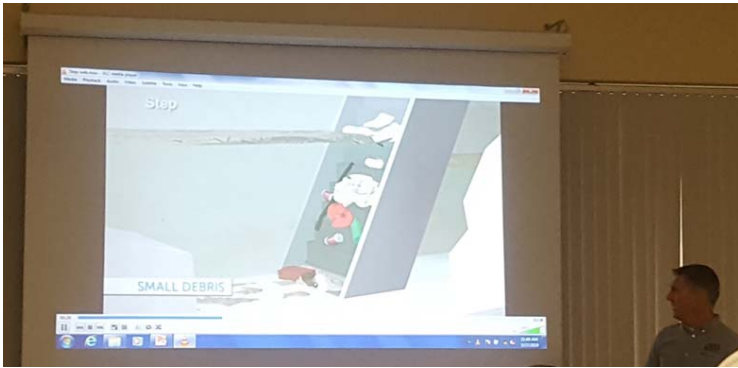
Pipe bursting is a technology that is less intrusive and cheaper to implement than other methods of pipe replacement. After bursting, the burst pipe is left in place and replaced with new ABS pipe. Then special practices are enforced by City to handle the sequestered pipe safely going into the future. The pipe always remains the responsibility of the City and restrictions are placed upon those areas regarding disturbing the soil by residents and future contractors. Notification procedures are placed on anyone who digs in those areas for the purpose of any other underground work.



Training Day Report, City of Yuba City, March 27, 2019, continued

DUPERON FLEXRAKE MULTI-RAKE SCREEN TECHNOLOGY

Simon Morris, JBI Water & Wastewater Equipment



The final presentation was given by Simon Morris of JBI Water and Wastewater Equipment. His presentation covered the various new screening technologies available for wastewater handling by treatment facilities. He offered a variety of different technologies employed by nearly a dozen different types of screening machines. He discussed their application in different situations such as force main sewer discharge, gravity sewers, and storm water channels.

All technologies use different types of bars, plates, or screens. There are also many different methods of debris removal. Some examples commonly used in the past are mechanical bar racks, perforated plate screens and wedge wire screens. Newer technologies include the step screen, band screen, drum screen, climber screen, helical screw, multi rake, FlexRake, and Sentinel FSP Screens. Each variety has different advantages in each application. For example, step screens can clean channels with smaller openings and non-bulky debris as a secondary screen. Others like the Climber Rake can clean coarse screens, the raking mechanism doesn't remain in the channel, and there are no tracks or sprockets in the channel to foul and fail.

A newer technology, the Multi-Rake family of screens, has many advantages as they are easy to understand and operate as well as operating at low speeds. As such they are adaptable to different applications. They also can operate in back and side currents and can handle large debris which makes them very flexible. The components are simple as well as very giving and self-adjusting to the shape of the debris as it caught on screen. An excellent example is the Flex-Rake screen which is very impressive and can remove almost any kind of debris from a screen.

He also described a new innovation in screen type and cleaning application called fixed element screening that uses hydrostatic pressure to clean fouled screens. This method uses thin perforated screens to prevent accumulation and plugging. It also moves the debris instead of the screen through active hydropression which cleans each perforation individually to prevent the screen from plugging. To end his presentation, Simon presented a short discussion of an excerpt from the AWWA Hydraulics for Operators manual as it applies to screening debris from water. Simon is to be commended for the very interesting graphics describing the operation of many of the screens.

We would like to thank all of these presenters for their interesting and timely topics. These are the kinds of topics that make for a very useful training session that can offer knowledge to put to work back at the plant! If any of the attendees have questions or want further information concerning any of the topics please contact the NSVS-CWEA Board. We will be happy to assist you in getting the insight that you are looking for.



Jobs listed on www.cawaterjobs.org

Posted April 24, 2019

Senior Utility Plant Control Systems Technician

City of Vacaville

Vacaville, CA, USA Full Time
Compensation: \$80,331 to \$97,643 Annually
+ a generous benefits package

Posted May 07, 2019

Laboratory Analyst I/II

City of Vacaville

Vacaville, California, USA Full Time
Compensation: \$61 to \$81 Annually
+ a generous benefits package

Posted April 30, 2019

Sanitation District Mechanic Level I/II, Sanitation District Mechanic Level III

Regional San

Elk Grove, CA, United States Full Time

Posted May 06, 2019

Senior Engineer

City of Sacramento - Department of Utilities

Sacramento, CA, USA Full Time

Jobs found on City of Redding Website

Job Title ▲	Job Type	Salary	Closing
Project Coordinator	Full-Time	\$78,468.00 - \$110,412.00 Annually	Continuous
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

Job found on Shasta County website

Position ▼	Department ▲	Emp. Type ▲	Salary ▲	Closing Date ▲
Associate Engineer	Public Works Department	Full-Time Regular	\$6,769.00 - \$8,639.00 Monthly	05/17/19

Job found on City of Chico website

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
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www.jbiwater.com
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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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NSVS Calendar of Events

- Wed, May 22 Training, Oroville
- Wed, June 19, Board Meeting 10-12 Granzellas Banquet Hall, Williams
- Wed, July 17, Training, Location TBA
- Wed, Aug 14, Board Meeting
- TUESDAY, Sep 17, Training, Redding
- Wed, Oct 9, Board Meeting
- Wed, Nov 13, To be determined
- Wed Dec 11, Board Meeting

- Sat January 18, 2020 Annual Awards and Dinner Banquet

Board meetings held at various locations. Contact twyhlidko@cityofredding.com or call 530-224-4319 for location information.

Members always welcome

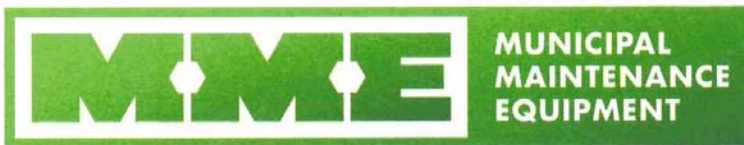
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Vice President

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Mission Clay Products 510-568-0800



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Water and Wastewater Equipment

G.J. (Jim) Billings III, PE

President

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jim@g3engineering.com

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www.g3engineering.com



2218 Railroad Avenue
Redding, California 96001

voice 530.243.7234
fax 530.243.7494

info@basiclab.com

2019 SSS-WDR Revisions

COLLECTION SYSTEM WORKSHOPS

Strategies for High Performing Collection Systems + Provide Your WDR Input!



Leucadia Wastewater District, photo by Rob Keith

We're into year 12 of the Sanitary Sewer System Waste Discharge Requirements. What have we accomplished? How can we perform better? And most importantly - what are the new goals for the revised SSS-WDR?

Join this interactive workshop with State Water Board and CWEA collection system leaders on how we can develop our teams and create high performing collection systems.

To start off, we'll hear from a State Water Board leader about current considerations for the reissuance of an updated statewide permit. The speaker will summarize feedback from regulators, environmental groups, private collection systems owners, and municipal agencies.

We'll then dive into discussions about collection system performance data, assessing risk, developing mitigation and capital improvements.

We'll also discuss the status of SSS-WDR revisions and walk through how your agency or city can review and send your suggestions to State regulators.

After attending this workshop, participants will be able to:

- Identify what 12 years of SSS-WDR data is telling us
- Assess risk and ensure system reliability
- Develop plans for risk mitigation and capital improvements
- Review and comment on SSS-WDR changes

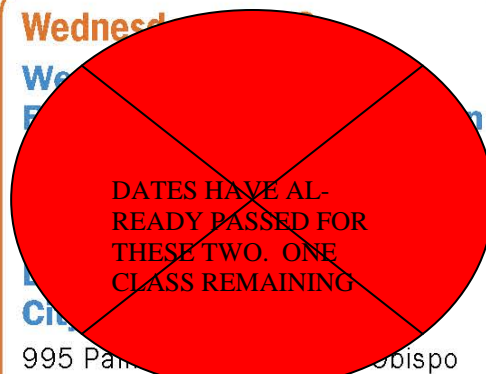
Who should attend:

- Agency leaders
- Collection system managers
- Engineers and support staff
- Regulatory affairs staff
- State and Local regulators

Regulatory Compliance
Improved Performance
Managed Risk



Wednesday



DATES HAVE ALREADY PASSED FOR THESE TWO. ONE CLASS REMAINING

Wednesday, May 22

Los Angeles Environmental Learning Center at Hyperion

12000 Vista Del Mar, Playa Del Rey

Earn up to 6 CWEA contact hours towards Collection System Maintenance, Environmental Compliance Inspector, Laboratory Analyst, Mechanical Technologist and Electrical & Instrumentation recertification.

EARLY BIRD DEADLINE IS FRIDAY, APRIL 19TH • REGISTER AT MYCWEA.ORG



Co-Organizer:



COLLECTION SYSTEM WORKSHOPS

Workshop Program

	<i>Topic</i>
7:30	Registration/Coffee/Light Snack
8:15	Welcome, Opening Remarks and Today's Agenda
8:25	Drivers Influencing Regulatory Change
9:10	<i>Break</i>
9:20	What the 12 years of Sanitary Sewer Overflow (SSO) Data is Telling Us
10:00	<i>Break</i>
10:10	Risk Assessment and Resiliency Planning to Address System-Specific Impacts
11:00	<i>Break</i>
11:10	Active Group Exercise: Assessing System Risk and Failures, and Potential Mitigation
12:00	Lunch & Networking
12:50	Incorporating Operational and Engineered Solutions into Risk Mitigation Planning – Small and Large Agency Case Studies
1:40	<i>Break</i>
1:50	Capital Improvement Planning and Project Prioritization
2:40	Wrap-Up and Closing Remarks

Schedule subject to change

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.

Speakers



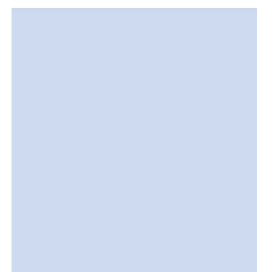
Michael Flores
HDR



Steven Jepsen
SCAP



Diana Messina
State Water Board



Richard Cunningham
Retired, SFPUC

2019 SSS-WDR Revisions

COLLECTION SYSTEM WORKSHOPS

Registration Form

Workshops sell out, please register early. Registration includes lunch.

Choose Location

Early Bird Rates

- ☐ San Francisco, April 26
☐ Los Angeles, due Friday, May 3
- ☐ Member \$133
☐ Non-Member \$223

Regular Rates

- ☐ Member \$163
☐ Non-Member \$253

Discounted Regulator Rates

- ☐ State or Federal \$83

☐ FullTime Student - No Cost (Provide proof of college attendance w/min of 9 units.) Name of 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: _____

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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: _____

Need help?
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Contact:

Member Services
510.382.7800 x0

memberservices@cwea.org

Registration Options:

1. Register online at mycwea.org
2. Send registration form and payments to:

CWEA 2019 Collections

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Please make checks payable to: CWEA 2019 COLLECTIONS

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.

EARLY BIRD DEADLINE IS FRIDAY, APRIL 19TH • REGISTER AT MYCWEA.ORG



Co-Organizer:





2019
NSVS-Northern Sacramento
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Advertisements in the bi-monthly Northern Sacramento Valley Section (NSVS) "Barscreen Bee" newsletter may be purchased for:

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