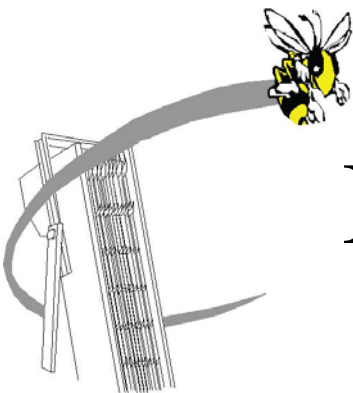


Sept 2017



BARSCREEN BEE

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



www.cwea.org/nsv

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



Welcome to Yuba City for Training

Tuesday, Sept 19th, 2017

**Yuba City Wastewater Treatment Facility
302 Burns Drive, Yuba City 95991**



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

**9:00 “UTILIZING NATURAL BIOLOGICAL PROCESS TO ENHANCE
IN-SITU SLUDGE DIGESTION”**

Grace Corbino, President, Blue Frog Technology

**9:50 “UTILIZING REMOTE MONITORING IN WASTEWATER
COLLECTION SYSTEMS”**

Brogan Quist, Regional Sales Manager, SmartCover Systems

**10:40 “i-ALERT@2 SIMPLE AND EASY EQUIPMENT HEALTH
MONITORING”**

Kevin Peters, Sales Engineer, R. F. MacDonald Co.

11:30 “AERATION SYSTEMS FOR ACTIVATED SLUDGE”

Akram Botrous, PhD, Senior Process Engineer, Stantec Corp.

12:40 LUNCH \$10, cash or check payable to CWEA NSVS.

1:30 TOUR OF YUBA CITY WASTEWATER TREATMENT FACILITY
302 Burns Drive, Yuba City, CA 95991

**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.**

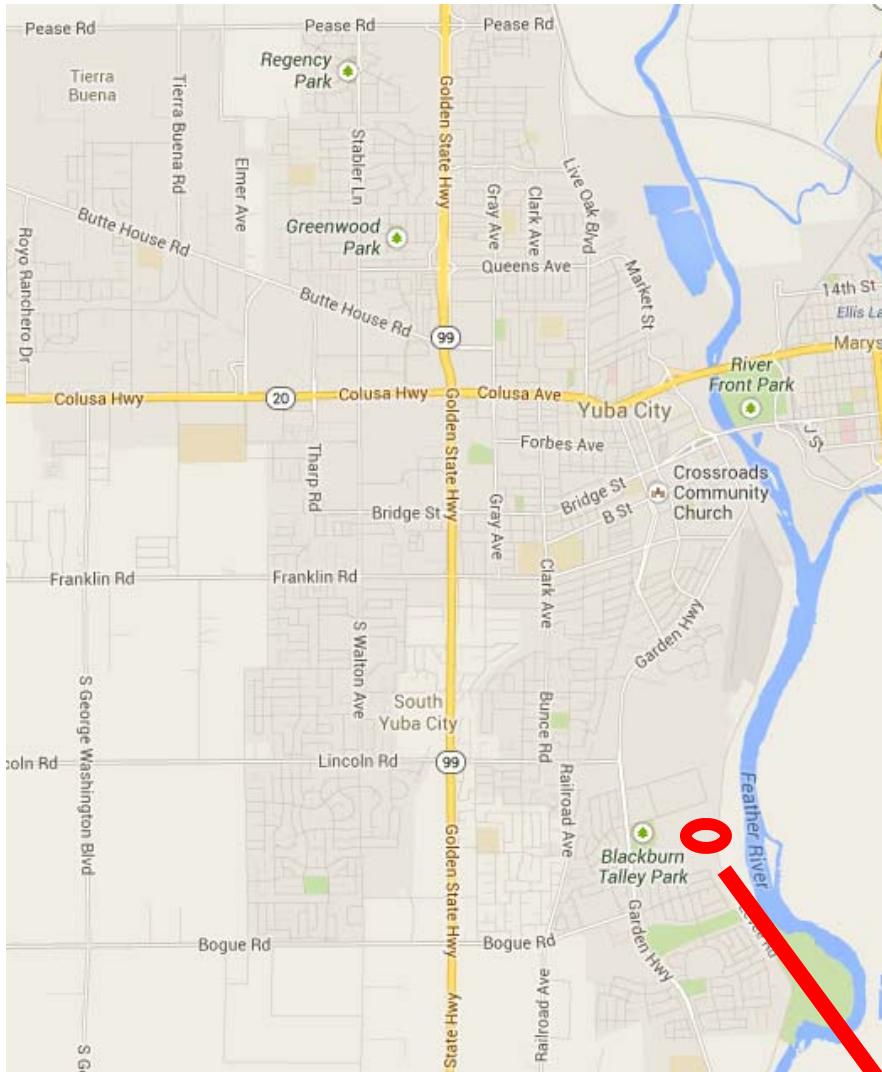
To find out if a class qualifies for CWEA continuing education in your area of certification, go to the CWEA web site. Click on Certification - Wastewater Trainers and Educators - CWEA Trainers- Training Subjects, for list of class subjects.

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

Welcome to Yuba City for Training

Tuesday, Sept 19th, 2017

Yuba City Wastewater Treatment Facility
302 Burns Drive, Yuba City 95991

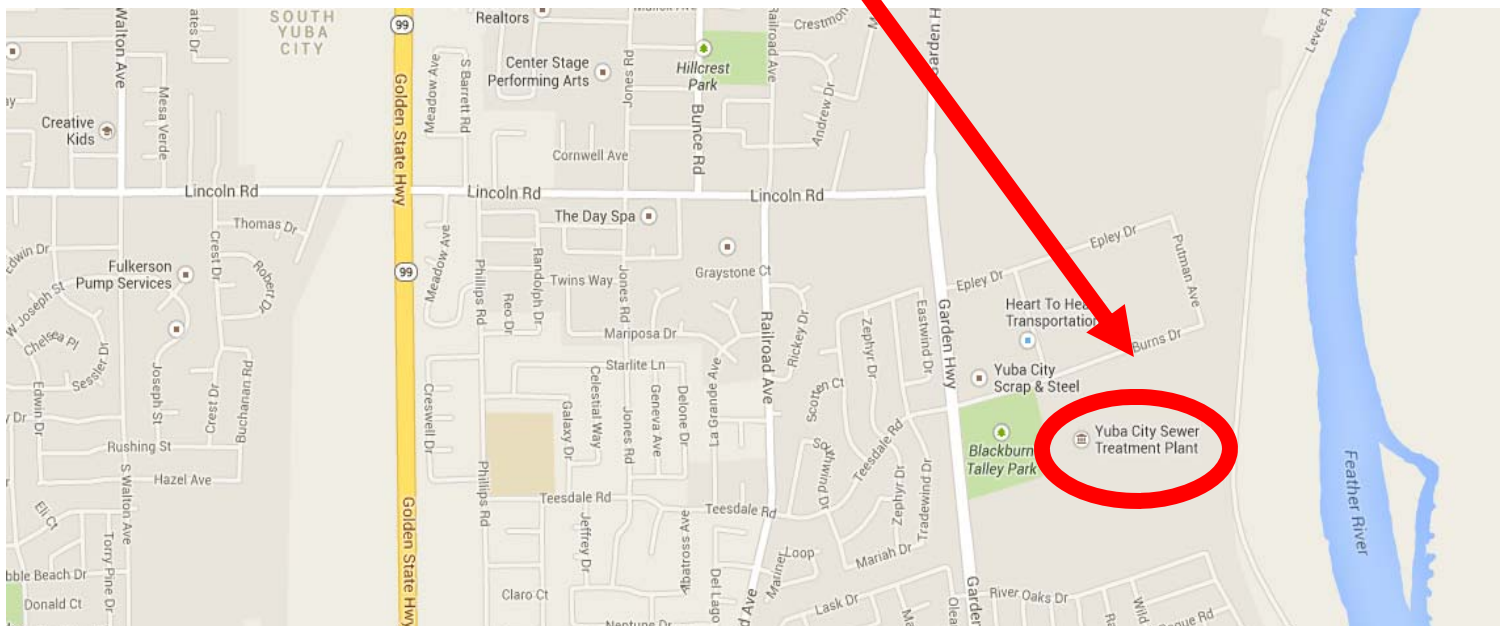


From the North:

Take I-5 to Hwy 99 South. Follow Hwy 99 to Yuba City. Turn Left on Lincoln Road, Right on Garden Highway, and Left on Burns Drive.

From the Sacramento area:

Take Hwy 99 North to Yuba City. Turn Right on Bogue Road. Turn Left on Garden Highway. Turn Right onto Burns Road.



JOB ANNOUNCEMENTS found on www.CAWaterJobs.org

Collection & Reclamation Systems Supervisor, Town of Windsor. Compensation: \$35.17 to \$43.92
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Deputy Director, Division of Water Rights. Central Valley Water Quality Control Board, Sacramento, CA, JC-77312 - Deputy Director, Division of Water Rights. Final Filing Date: 9/15/2017

Operator-In-Training (OIT), Tahoe-Truckee Sanitation Agency, Truckee, CA. Compensation: \$4,768 to \$5,537 Monthly +100% of Medical/Dental/Vision prem paid. HRA. Emp Life Ins. Paid Holidays.
CLOSE DATE: 09/13/2017

Senior Wastewater Treatment Plant Operator, Sacramento County, Elk Grove, CA. Compensation: \$7,549.86 to \$8,324.16 Monthly

ADDITIONAL LOCAL JOB ANNOUNCEMENTS

Shasta County, Public Works Department, Engineering Technician I Closing Date/Time: Fri. 09/22/17 5:00 PM Pacific Time Salary: \$42,648.00 - \$54,432.00 Annually

Tehama County, Director of Public Works, Closing Date/Time: Mon. 09/11/17 5:00 PM Pacific Time Salary: \$107,724.00 - \$130,932.00 Annually

Tehama County, Engineering Technician III (Public Works Department) Salary: \$48,360.00 - \$58,956.00

City of Chico, Associate Civil Engineer Full Time \$66,248.00 - \$91,353.59 yr

City of Chico, Wastewater Treatment Plant Operator III, Full Time \$53,185.60 - \$71,260.80 yr
Continuous posting as of 06/23/17



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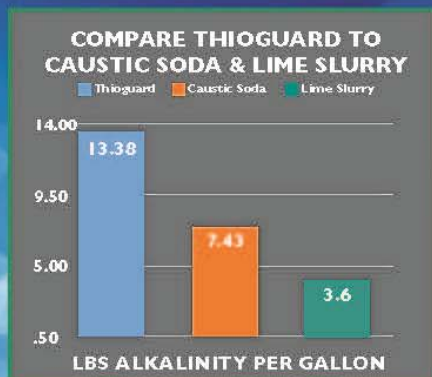
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**CALIFORNIA WATER ENVIRONMENT ASSOCIATION
NORTHERN SACRAMENTO VALLEY SECTION
Training Day Report Sewerage Commission – Oroville Region
July 18, 2017 By Brianna Juhrend**

The first presentation by Kevin Dossey (California Department of Water Resources [DWR]) provided an update on the Lake Oroville spillways and the emergency recovery project. Kevin reviewed the events leading up to the evacuation, beginning with the deck and foundation erosion identified on the main spillway on February 7, 2017. After flow ceased over the spillways, over 1 million cubic yards of debris was removed from the diversion pool in 9 days (a 24/7 operation).

The objectives of the Lake Oroville Spillways Emergency Recovery Project are to 1) ensure public safety and the integrity of the Oroville Dam and associated facilities, 2) ensure the main spillways can safely pass Feather River watershed flows by November 1, 2017, and 3) construct a cutoff wall to prevent uphill erosion should the emergency spillway be used again. The 2017 main spillway construction includes 1,220 feet of structural concrete, and 1,050 feet of roller-compacted concrete (RCC) with the top 730 feet to remain original. The 2017 emergency spillway construction includes an underground cutoff wall, and RCC buttress/splash pad. The 2018 main spillway construction will include replacement of the 1,050 feet of RCC and the original top 730 feet with structural concrete, and repair of the energy dissipaters at bottom of the main spillway.

In addition to these construction projects, DWR has conducted and planned community outreach, PG&E permanent reroute, roadway improvements, river restoration efforts, and projects to increase access to Lake Oroville (launch lanes and parking).

Check out the Lake Oroville Spillway Live Stream here:

https://www.parks.ca.gov/live/lakeorovillesra_spillway

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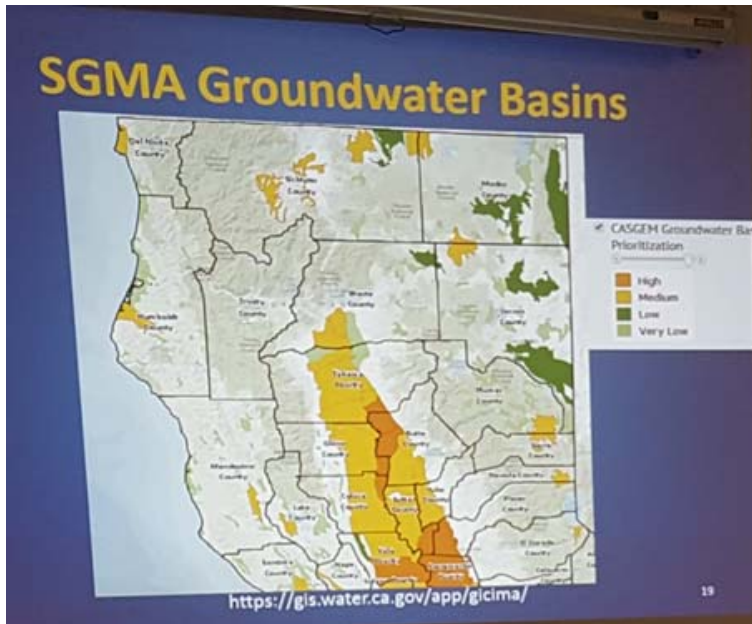
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Training Day Report (continued for July 18, 2017)

Next - Mary Randall (DWR) provided a presentation on the Sustainable Groundwater Management Act (SGMA) of 2014. Why should CWEA care about SGMA? SGMA requires development of projects to address undesirable results in groundwater basins, which means finding and funding "new sources of water" to augment fresh water supplies and recharge groundwater, and SGMA also provides an opportunity to reduce discharges to surface water.



A few SGMA facts:

- California was the only western state lacking statewide groundwater regulation.
- Only applies to high and medium priority alluvial basins.
- Goal to avoid "undesirable results," including reductions in groundwater storage/surface water supply, seawater intrusion, land subsidence, etc.
- Does not change water rights.
- Establishes local governance (Groundwater Sustainability Agencies [GSAs]) and empowers GSAs to: Register groundwater wells, Measure & manage extractions, Require reports, Assess fees

GSAs must prepare Groundwater Sustainability Plans (GSPs) by January 31, 2022 (high and medium priority). State Water Board will intervene only if local agencies are not able to manage groundwater sustainably.

Find your GSA here: <http://sgma.water.ca.gov/portal/gsa/all>.

As an aside, wells for domestic use are considered de minimis extractors if the extraction is less than 2 acre-feet (~650,000 gallons) per year. Learn more here:

https://www.waterboards.ca.gov/water_issues/programs/gmp/docs/sgma/domestic.pdf.



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What did the dentist say to the judge in court? You can't handle the tooth!



In this next entertaining presentation, Brandon Bishop and Tracy Wyhlidko (City of Redding) shared about the new national wastewater regulations for dental offices. Did you know that dental offices, which discharge mercury present in amalgam used for metal fillings, are the main source of mercury discharges to POTWs?

Amalgam separators are a practical, affordable, and readily available technology for capturing mercury and other metals before they are discharged to POTWs. Installation of amalgam separators is expected to reduce the annual discharge of mercury and metals by 5.1 tons and 5.3 tons, respectively.

The effective date of the rule was July 14, 2017 and dental offices have three years to comply. The burden of compliance is on the dental office, not on the wastewater agency. However, Brandon and Tracy provided tips for helping the dentist and conducting inspections:

- Announce your arrival, meet & greet, and smile
- Find out frequency of waste recycle and request shipment receipts (if applicable)
- Request safety data sheets for line cleaners
- Use flashlight to check the level in the amalgam separator.

Feel free to contact Tracy

(twyhlidko@cityofredding.org) for example templates of the City of Redding's compliance reports, inspection forms, and letters to dentists.



NSVS Calendar of Events

Board meetings held at 10:00 a.m.,

Italian Cottage Restaurant

2234 Esplanade, Chico.

Members always welcome.

Sept 19, Training in Yuba City

Oct 17, Board Meeting 10:30 a.m.

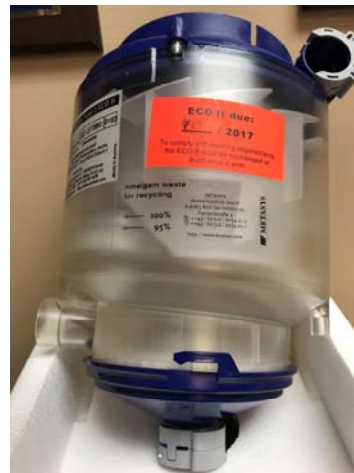
Fall 2017 Young Professionals Social

Nov 29, Collection System CWEA

Training, Redding, CA 7:00 am—3:30 p.m. (registration and fee required. Flier will be emailed separately)

Dec 12, Board Meeting 10:30 a.m.

Jan 20, 2018: Awards Banquet, Rolling Hills Casino.





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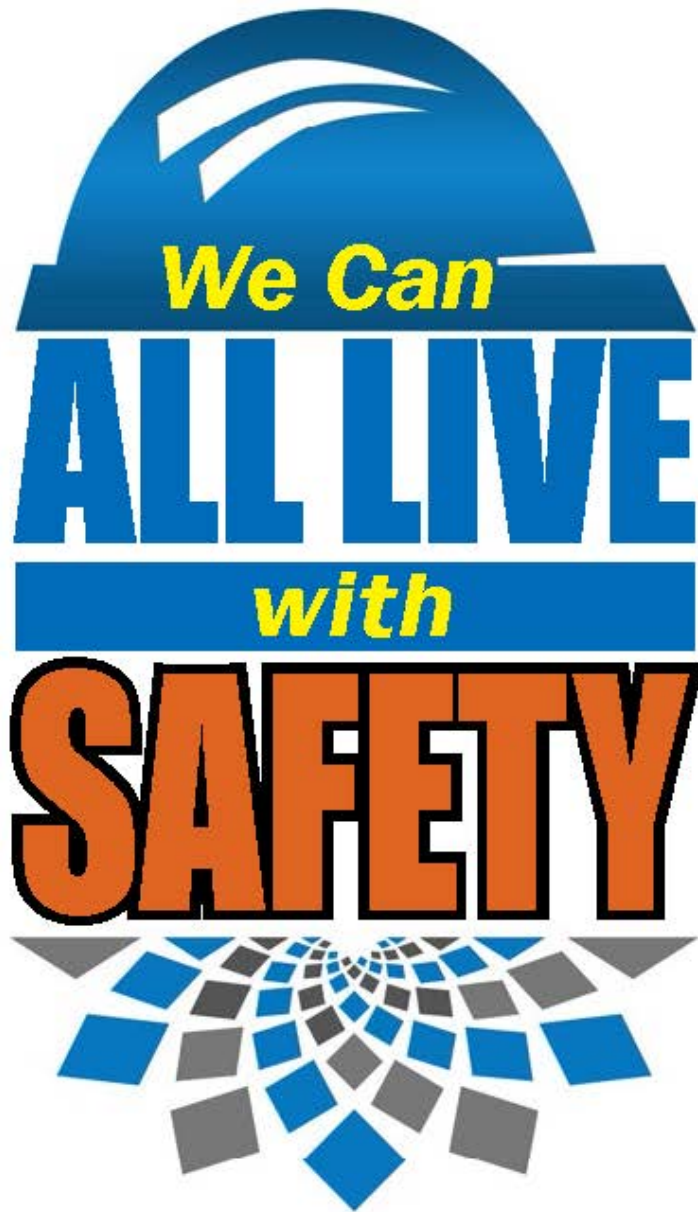
Training Day Report (continued for July 18, 2017)

Lastly - Joe Trapasso III and Jim Altobell (Silver State Analytical) presented first on the 5 W's of Chain of Custody (Who? What? When? Where? Why?). It is important to accurately complete this form, which is a legal document, and to ask questions when you have them. Remember to relinquish samples properly and include the name of your employer with your signature so that you do not accept personal liability/risk!

Next Silver State Analytical presented a "Field Sampling Survival Guide to Ensure Quality Data" to answer questions such as what bottle do I need? Unique analyses require different bottle types, quantities, and volumes. It is important to prepare a sampling plan and ensure your lab can perform (or subcontract) the parameters you need tested ahead of time. If everyone does their part, the end result is quality, legally defensible data that ensures regulatory compliance!



2017 NORTHERN SAFETY DAY



Join friends, peers and colleagues on Wednesday, **October 25, 2017** at Yolo County Fairgrounds in Woodland, CA for CWEA's 32nd Annual Northern Safety Day 2017. Explore this year's theme:

"We Can All Live With Safety."

Gain certification hours and improve your professional knowledge around safety. Experience hands-on equipment demonstrations and network with exhibitors and fellow attendees.

Register online by October 3rd and save \$25!

Be sure to arrive early for the Opening Session, featuring a representative from Oroville Dam Emergency by the California Department of Water Resources.

Get current safety training tips on:

- Disaster Planning
- Safety Awareness
- Body Mechanics
- Lifting Safety
- Confined Space
- Creating SOP's



Who should attend:

- O&M Leaders
- Mechanics
- Electricians
- Instrumentation Technicians
- Inventory Managers
- Maintenance Schedulers
- Wastewater Operators
- Engineers and Support Staff

Earn up to 6 CWEA Technical Certification Program Contact Hours and up to 4 SWRCB Continuing Education Units (CEUs) for drinking water. See the schedule for information on which qualify for TCP Technical hours and which for Safety.

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

EARLY BIRD DEADLINE: OCTOBER 3, 2017



Northern Safety Day 2017 | October 25, 2017

7:00 a.m.	Donuts and Registration in the Exhibit Hall in Home Arts Building		
8:00 - 9:00 a.m.	Oroville Dam Emergency, Michael Donlon, DWR - Waite Hall ▲		
ROOM NAME	JOHN ROGERS	WAITE HALL	MARAVIOV HALL
9:05 - 10:05 a.m.	Agency Preparation for Disaster Mark Rea, SCM ▲	Importance of SOP's in Accident Prevention and Employee Training David Patzer, DKF Solution ■	Confined Space * Lenny Lucero, Du-All Safety ■
10:05 - 10:45 a.m.	Exhibitor Time Outside and Home Arts Building		
10:50 - 11:50 a.m.	Ergonomics and Biomechanics for non-Office Employees Tim Brent, Ergonomic Consulting Group ■	Would You Survive a Disaster? Bruce Anderson ■	Confined Space * Lenny Lucero, Du-All Safety ■
11:50 a.m. - 1:00 p.m.	Lunch in Waite Hall followed by Exhibitor Time Inside Home Arts Building and Outside		
1:00 - 2:00 p.m.	Lab Safety Jenny Bender, CSMA	What are You Lifting at Work? Don Freeman, Occumetric, Inc. ■	Confined Space * Lenny Lucero, Du-All Safety ■
2:00 - 2:30 p.m.	Exhibit Time		
2:30 - 3:30 p.m.	Marijuana in the Workplace, What's the Buzz About? - Rogoway Law Group		
3:40 p.m.	Door Prize Drawing on Exhibit Floor in Home Arts Building		

▲ Earns Technical Hour from State Water Resources Control Board (SWRCB)
■ Earns SWRCB Safety Hour

SESSION & SPEAKER INFO:

- Our keynote speaker, Michael Donlon PE, CSP is the Chief Safety Officer with the California Department of Water Resources (DWR) in Sacramento. He will discuss events leading to the Oroville Dam Crisis and the roll of DWR in the stabilization and recovery.
- *Confined Space Training is limited and booked on first come, first served basis and runs in three concurrent sessions. Lenny Lucero will teach about confined space requirements, air monitoring, permits, protecting yourself and others, in this day long event. You must register for this session on the registration form. Attendees of all three sessions will receive a certificate from Du-All Safety.
- David Patzer is the CEO of DFK Solutions. Mr. Patzer is recognized as a leading professional with multiple areas of expertise and has over 25 years of experience developing and implementing innovative and practical loss prevention solutions.
- Mark Rea is a trainer with SCM who has worked with multiple water agencies and is well versed in disaster preparation.
- Bruce Anderson is a dynamic speaker and expert in numerous safety areas. His impassioned delivery of his topics leaves the audience wanting more.
- Tim Brent is an ergonomic and rehabilitation specialist with advanced training in movement education. He has worked with business and industry in ergonomic safety principles and injury prevention for over 15 years.
- Don Freeman, CEO of Occumetric, Inc. will look at what we are lifting at work and how often we exceed the limits established by our agencies. His approach, in a game fashion, is informative and fun.
- Rogoway Law group is based in Santa Rosa and specializes in Marijuana law. They will lead a discussion on California's new law and impact on the workplace.
- Jenny Bender is the Environmental Laboratory Administrator at Central Marin Sanitation Agency. She also sits on the Redwood Empire Safety Committee. Jenny has worked in the laboratory at CMSA for 26 years.

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.

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2017 NORTHERN SAFETY DAY

We Can All Live With Safety

Registration Form

Early Bird (due 10/3/17)

- ☐ Member \$122 ☐ Non-Member \$212
Registration includes BBQ lunch

Regular (after 10/3/17)

- ☐ Member \$147 ☐ Non-Member \$237
Registration includes BBQ lunch

Student

- ☐ FullTime Student - No Cost
Provide proof of college attendance w/minimum of 9 units.

- ☐ I will attend all (3) Confined Space Training Sessions.
Space is limited. First come, first served.

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)

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Registration Options:

1. Register online at mycwea.org
2. Send registration form and payments to:
CWEA Workshops
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Please make checks payable to: CWEA 2017 NSD

REGISTRATION QUESTIONS?

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lhillman@cwea.org

Sponsorship questions?

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510.382.7800 x114

amackie@cwea.org

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.

REGISTER ONLINE AT MYCWEA.ORG



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BIOSOLIDS & RENEWABLE ENERGY INNOVATION TECHNOLOGY SEMINAR



The biosolids and renewable energy worlds are continually evolving along with regulations governing them. At this seminar, we'll learn about new technology—both bench scale and full scale from developers and public agencies. We'll talk about regulations being developed and what is being done to inform them.

You will hear from academic and technology researchers about the resource recovery technologies and alternatives of the future. During this fast-paced workshop, hosted by CASA's Greg Kester, you can learn, share and network with experts in biosolids and renewable energy as well as your fellow attendees. New, larger venues mean we can welcome over 100 wastewater professionals.

This workshop does sell out, so please register soon.

Tuesday, November 14th
HS Lordships

199 Seawall Drive
Berkeley, CA 94710

Wednesday, November 15th
UC Irvine Student Center

A311 W. Peltason Drive
Irvine, CA 92697

Who should attend:

- Project managers
- Engineers
- Energy leaders
- Operations staff
- O&M leaders
- Technology providers
- Academics
- Regulators

Earn up to 6.5 CWEA Contact Hours in Environmental Compliance Inspector (ECI); Laboratory Analyst (LAB); Industrial Waste Treatment Plant Operator (OP); Biosolids Land Application Management



Workshops are jointly hosted by CASA and CWEA

EARLY BIRD RATE DEADLINE FRIDAY, OCTOBER 27, 2017

Sponsored by:



BIOSOLIDS & RENEWABLE ENERGY INNOVATION TECHNOLOGY SEMINAR

November 14 Workshop Program – HS Lordships – Berkeley

8:30 a.m.	Registration/Greetings, Coffee and Pastries
9:00 - 9:05 a.m.	Welcome/Introduction Greg Kester, CASA
9:05 - 9:30 a.m.	Issue Overview – Challenges and Opportunities as the Wastewater Sector Helps California Meet its Legislative and Regulatory Objectives Greg Kester, CASA
9:30 - 9:55 a.m.	Advanced Power and Energy Program and the National Fuel Cell Research Center Professor Jack Brouwer, Associate Director
9:55 - 10:20 a.m.	Closed-Loop Coasts: Biosolids as Marsh Creation Amendment Maddie Foster Martinez, UC Berkeley
10:20 - 10:35 a.m.	Break
10:35 - 11:00 a.m.	Extracting Wisdom from Treatment Plant Data with Artificial Intelligence Joshi Prateek, Pluto AI
11:00 - 11:25 a.m.	Building Healthy Soils with Organic Residuals Layne Baroldi, Synagro
11:25 - 11:50 a.m.	US Forest Service Innovation Wood Grant – Overview and High Temperature Steam Activation of local Biochar Gerardo Diaz, UC Merced
11:50 a.m. - 12:15 p.m.	Innovative Project Hari Santha, NEFCO
12:15 - 1:00 p.m.	Lunch - Provided
1:00 - 1:25 p.m.	Co-digestion with Organics from MSW and Sustainable Biosolids Processing with Renewable Energy Recovery at Rialto Peter Kistenmacher, Anaergia
1:25 - 1:50 p.m.	Trust, but Verify - Odor Control with Guaranteed Performance Anders Wistrom, Centriair
1:50 - 2:15 p.m.	Beneficial Use of Digester Gas Kenneth Frisbie, BioFuels Energy
2:15 - 2:40 p.m.	Energy Positive Anaerobic Secondary Treatment for California - Lessons Learned and Perspectives for the Future Sebastien Tilmans, Stanford University Codiga Center
2:40 - 3:00 p.m.	Break
3:00 - 3:25 p.m.	SHYPOWERS Hydrothermal Processing Project at Central San Jim Oyler, Genifuel Corporation & Dan Frost, Central San
3:25 - 3:50 p.m.	Evaluating Nereda Aerobic Granular Sludge as a Cost-Effective Nutrient Removal Upgrade Greg Baatrup, Fairfield-Suisun SD & Ralph Eschborn, AECOM

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BIOSOLIDS & RENEWABLE ENERGY INNOVATION TECHNOLOGY SEMINAR

November 15 Workshop Program – UC Irvine Student Center

8:30 a.m.	Registration/Greetings, Coffee and Pastries
9:00 - 9:05 a.m.	Welcome/Introduction Greg Kester, CASA
9:05 - 9:30 a.m.	Issue Overview – Challenges and Opportunities as the Wastewater Sector Helps California Meet its Legislative and Regulatory Objectives Greg Kester, CASA
9:30 - 9:55 a.m.	Trust, but Verify - Odor Control with Guaranteed Performance Anders Wistrom, Centriair
9:55 - 10:20 a.m.	Advanced Power and Energy Program and the National Fuel Cell Research Center Professor Jack Brouwer, Associate Director
10:20 - 10:35 a.m.	Break
10:35 - 11:00 a.m.	Beneficial Use of Digester Gas Kenneth Frisbie, BioFuels Energy
11:00 - 11:25 a.m.	Building Healthy Soils with Organic Residuals Layne Baroldi, Synagro
11:25 - 11:50 a.m.	US Forest Service Innovation Wood Grant – Overview and High Temperature Steam Activation of Local Biochar Andres Munoz-Hernandez, UC Merced
11:50 a.m. - 12:15 p.m.	Innovative Project Hari Santha, NEFCO
12:15 - 1:00 p.m.	Lunch - Provided
1:00 - 1:25 p.m.	Co-digestion with Organics from MSW and Sustainable Biosolids Processing with Renewable Energy Recovery at Rialto Yaniv Scherson, Anaergia
1:25 - 1:50 p.m.	Closed-Loop Coasts: Biosolids as Marsh Creation Amendment Maddie Foster Martinez, UC Berkeley
1:50 - 2:15 p.m.	HYPOWERS Hydrothermal Processing Project at Central San Jim Oyler, Genifuel Corporation & Dan Frost, Central San
2:15 - 2:40 p.m.	Energy Positive Anaerobic Secondary Treatment for California: Lessons Learned and Perspectives for the Future Sebastien Tilmans, Stanford University Codiga Center
2:40 - 3:00 p.m.	Break
3:00 - 3:25 p.m.	New Gas & Power Technologies for Landfills and POTW Biogas Use Subra Iyer, NrgTEK
3:25 - 3:50 p.m.	Evaluating Nereda Aerobic Granular Sludge as a Cost-effective Nutrient Removal Upgrade Greg Baatrup, Fairfield-Suisun SD & Ralph Eschborn, AECOM

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Resources

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gkester@casaweb.org

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