

August 2022



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

Welcome to In-Person Training

Tuesday, August 2, 2022

8:30 a.m. - 2:30 p.m.

McConnell Foundation

800 Shasta View Dr, Redding CA 96003

- 8:30 **SIGN IN and NETWORK** with your peers over coffee and pastries
- 9:00 **SOLUTIONS FOR CHEMICAL PIPING SYSTEMS:**
The latest advancements in single and double contained piping systems for various treatment chemicals, best practices, and design considerations.
Steve Cardwell, Asahi-America Corporation
- 9:50 **PYROLYSIS SLUDGE TREATMENT SYSTEM DESIGN**
Sami Kader, Principal Engineer, Waterworks Engineering
- 10:40 **MANAGING AN OSHA INSPECTION**
Angela Utovich, Safety Specialist, City of Redding
- 11:30 **VAC-CON DEMONSTRATION**
MME and City of Redding
- 12:20 **LUNCH \$15**, cash or check payable to CWEA NSVS
Catered by FROM THE HEARTH CATERING CO.
- 1:30 **TOUR OF CITY OF REDDING STILLWATER WWTP**
ATTENDEES MUST DRIVE TO THE TREATMENT PLANT
LOCATED AT 6475 AIRPORT RD, ANDERSON, CA 96007

Questions?

Contact Josh Vandiver, President (contact info on left side-bar)

Attendees of technical sessions will be issued Continuing Education contact hours toward CWEA Technical Certification

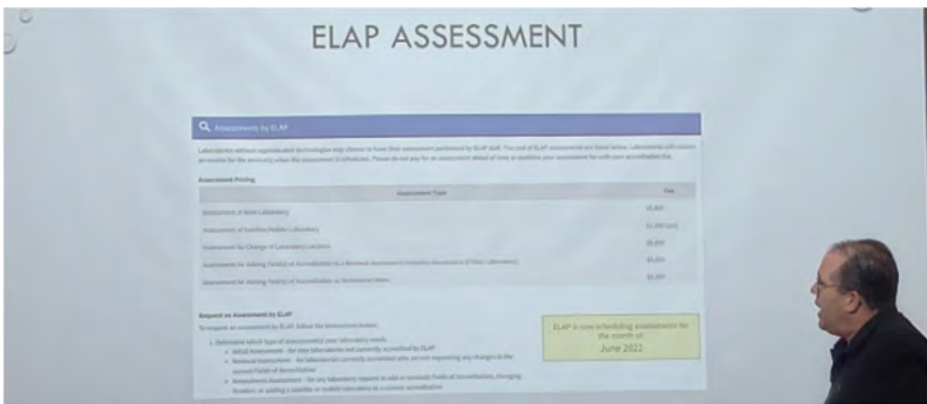
Training Day Report from Yuba City on May 18, 2022



Ted Couch from Jacobs Engineering presented “The Alpha-Team: Alpha Factor Testing for Maximum Efficiency Aeration”. The Alpha Factor (ratio of oxygen transfer efficiency in process water to clean water) can be determined through field tests. The “Alpha-Team” used the South Truckee Meadows Water Reclamation Facility near Reno, NV for a controlled test site. A tank with three different diffuser systems was fabricated to find the most efficient

system for this site. Silicone tubes were the winner here, even though they had the highest capital cost, they had the lowest total cost of operations and

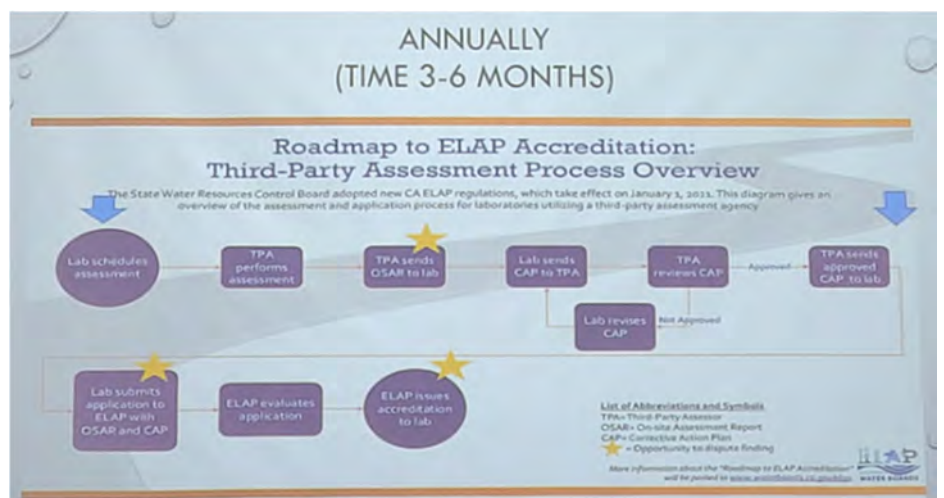
maintenance over a 20-year lifespan. Field testing gives results that you can use to invest wisely in your system now and can lead to great savings down the road.



Jeff Noller from the City of Redding presented “Pathway to

TNI Certification for Wastewater Laboratories”. The State Water Resources Control Board adopted new CA ELAP regulations, which take effect on January 3, 2023. The presentation covered the process to become accredited

through the Environmental Laboratory Accreditation Program (ELAP). This extensive process includes a third-party assessor providing an on-site assessment report, laboratory submitting a corrective action plan, and finally the ELAP application.



Continued: Training Day Report from Yuba City on May 18, 2022

Steve Aiken from Duperon Corporation presented “An introduction to Duperon Screens: Newest Innovations in Wastewater Screening and Lift Station Rag Removal Systems”. The presentation included bar screen sizing to optimize the capture rate, bar shape, and flow/velocity considerations. There are screens available that automatically adjust for high flows by



opening every other bar on the screen for during peak flow events. The Flexrake IQ Platform and the Dual Auger System for “flushable”



wipe control were discussed. Systems are available that can convey rags up and out of lift stations using auger to push them into a bagged dumpster.

John Bontrager led a tour of the Yuba City Wastewater Treatment Facility after lunch.



Pumps Ragging?

Problem Solved

Case Study: Half Moon Bay CA

Problem:

- Pumps clogging usually twice per week and took 1 hour to clean each pump.
- Risk to employees lifting pumps & exposed to waste, sharps etc.
- Excess energy consumption & high energy bills.

Solution:

- DeRagger+ and Keypad installed in control Panel.
- *Real Time Pump Protection* used to detect rags and run pump reversal via VFD.

Result:

- Energy Savings: 19% or \$500 per month in PG&E bills
- Near complete reduction in ragging.
- Big savings on manpower now effectively utilized rather than for cleaning pumps. Savings at \$735 per month.
- Reduced pump Run Time with clean pump

Total cost savings as projected by sewer authority: \$14,820 per year.

"We found that the energy usage has decreased to approximately 20% which shows a \$500 savings on our PG&E bill. This is besides the fact that we have been able to save manpower and utilize them for other activities instead of the constant cleaning."

- Kishen Prathivadi, P.E, PMP, Sewer Authority Mid-Coastside

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NSVS Calendar of Events

- In-Person Training, Tuesday August 2, 2022, location Redding (see front page for details)
- Board Meeting Wednesday, August 17, 2022 10:30 am—12:30 pm, Berry Patch Blue Plate Special Restaurant, Orland (or online)
- Golf Tournament Friday, Sept 16, 2022, (see flier in this newsletter) at The Links at Rolling Hills Casino, 2657 Everett Freeman Way, Corning, CA 96021
- Board Meeting Wednesday, Oct 19, 2022 10:00 am—12 pm, Berry Patch Blue Plate Special Restaurant, Orland
- Training or Board Meeting, Wednesday, Nov 16, 2022, location TBD
- Board Meeting Wednesday, Dec 7, 10 am—12 pm, Berry Patch Blue Plate Special Restaurant, Orland

Board meetings are held at the Berry Patch Restaurant, now called Blue Plate Special at 900 Newville Rd, Orland, CA 95963. Members are always welcome to attend the board meetings.

Contact





Annual Golf Tournament

The Links at Rolling Hills

2657 Everett Freeman Way, Corning CA 96021



Friday, September 16th 2022

The competition will be in the format of a four-player scramble with a 9 am shotgun start. Teams will be formed by the Tournament Organizer unless you sign up as a foursome. Reservations MUST be pre-paid using the entry form below. All entries include green fees, range balls, drink tickets, a shared cart, prizes, and lunch.

All sponsorships provide an excellent opportunity to promote your company to water and wastewater professionals. As an alternative, you may donate a prize to be awarded at the luncheon following the tournament. We are also asking for tee prizes to hand out to all players. We do have a 501 (c)(3) designation. We will provide a letter for you if requested.

Please email back the completed form if you would like to participate. For questions about the tournament contact;

CWEA - Josh Vandiver at (530)224-6069 or by email: jvandiver@cityofredding.org

or

APWA - Josh Watkins at (530)224-6040 or by email: jwatkins@cityofredding.org

Single Player (\$100)

Foursome (\$400)

Hole Sponsor w/ one complimentary entry (\$300)

For sponsors, email a high res logo for tee box sign **Company Name & Contact (SPONSOR)** _____

Use this form to sign up as a single, or in groups of up to four players.

- | | |
|----------|-------------|
| 1. _____ | Email _____ |
| 2. _____ | Email _____ |
| 3. _____ | Email _____ |
| 4. _____ | Email _____ |

Payment Options



to 530-524-0080 or @Josh-Watkins-68

Send checks to **APWA-Sacramento Chapter** to:

Josh Watkins City of Redding PO Box 496071 Redding, CA 96049-6071

Entries MUST be received by September 9th

****All proceeds go towards the APWA Shasta Cascade Branch and CWEA Kirt Brooks Scholarships.****



We see water **differently.**

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and solutions to issues that haven't arisen yet.
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to look beyond the surface of what's doable,
into the depth of what's possible.
The results are industry-changing innovations and
solutions that impact our communities and our
ecosystems. It all comes at a critical time in
our industry because while many see uncertainty,
we see opportunity. It's all in how you look at it.

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Job Openings at City of Davis: <https://www.governmentjobs.com/careers/davis>

- WWTP Operations Supervisor \$92,622.40 - \$112,590.40 Annually Public Works / Water Treatment / Wastewater Closes on 08/12/22 Public Works Department Davis, CA
- WWTP Operator I/II/III \$65,249.60 - \$95,971.20 Public Works / Water Treatment / Wastewater Continuous recruitment, Public Works Department Davis, CA
- Laboratory Supervisor \$84,362.10 - \$102,542.75 Water Treatment / Laboratory Closes on 08/09/22 Public Works Department Davis, CA
- WWTP Operator I/II/III - Temporary Part-time, \$31.37 - \$46.14 Hourly Public Works / Water Treatment Continuous recruitment Public Works Department Davis, CA





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2022
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:

Brianna Barton, P.E.
Carollo Engineers, Inc.
2880 Gateway Oaks Drive, Suite 300, Sacramento, CA 95833
D: 916-576-4718, C: 530-391-5805
Email: BLBarton@carollo.com

Make checks payable to: CWEA NSVS

Enclose a business card or submit electronic advertisement (jpg, gif, or pdf) to the Newsletter Editor at: Newsletter.Editor.CWEA.NSVS@outlook.com.