



P3S

ORIGINAL CWEA P3S PRODUCTION



CWEA

EMBRACE THE FUTURE III ²⁰²⁰

RIDE THE WAVE OF CHANGE

47TH ANNUAL / / / - - - - >

PRETREATMENT,
POLLUTION PREVENTION,
AND STORMWATER CONFERENCE

MONTH

JAN

DAY

27-29

YEAR

2020

LONG BEACH HILTON

LOCATION

LARRY WALKER ASSOCIATES



- Wastewater
- Stormwater
- Watershed Management
- Agricultural Water Quality Management
- Groundwater

LARRY
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ASSOCIATES

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LETTER FROM THE COMMITTEE CHAIR



My Fellow Water Professionals,

It is an exciting time to work in the field of water. From enhanced source control to identifying constituents of emerging concern, new leaders and policy are evolving and changing the game. It has never been more pertinent for water professionals across California to **embrace the future and ride the wave of change.**

For pretreatment, pollution prevention, and stormwater (P3S) professionals, change is everywhere. Change is in the political landscape and regulations that compliance is founded on. Change is in the new technologies implemented to enhance treatment efficiencies and investigative tools. Change is in the methodologies approved for generating data and performing investigations. Change is in the public outreach and community outlook towards reuse initiatives and sustainability. Quite simply, change is our job and it is our duty as leaders to embrace.

I believe the key to success in our job is finding the motivation needed to pursue your appetite for knowledge and progress. Whether your work is in stormwater, wastewater, somewhere in between, or somewhere outside of both – find your motivation and let it fuel you. Collectively, with a P3S community of self-motivated and forward-looking individuals, our shared vision of a cleaner and more sustainable world of water becomes a reality.

My time as Committee Chair of P3S has been something I will never forget. I would recommend anyone looking to take that next step in their professional development to reach out to myself, or another P3S Committee member, and ask what you can do to get involved. Take that first step and embrace your future and ride your own personal wave of change.

I leave you with this quote from John F. Kennedy who once said “Change is the law of life. And those who look only to the past or present are certain to miss the future.”



Sincerely,

CWEA P3S Committee Chair
Associate Engineer
Orange County Sanitation District

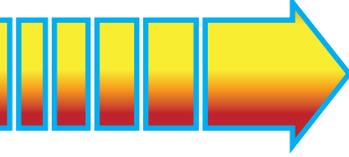
Contact Hours

The conference offers up to 20.2 CWEA contact hours toward all technical certifications.

Registration Desk Hours

Monday 8:00 AM to 6:00 PM
Tuesday 8:00 AM to 4:30 PM
Wednesday 8:00 AM to Noon

/// NETWORKING ACTIVITIES



DAY	TIME
SUNDAY	3:00PM - 5:00PM
1 JUNIPERO AVE., LONG BEACH	
LOCATION	

Junipero Beach Clean-Up



Join your fellow environmental enthusiasts by actively making a difference and participating in a beach clean-up! Also get some time before the conference starts to visit with those familiar faces and hopefully some new ones. P3S is proud to call the City of Long Beach the home of the 2020 conference, so let's give back by helping clean up Junipero Beach, an iconic and popular destination for locals and travelers from around the world.

DAY	TIME
SUNDAY	6:00PM - 9:00PM
407 SHORELINE VILLAGE DR., LONG BEACH	
LOCATION	

Ice Breaker Networking Event



Visit with old friends and make new ones. An annual P3S tradition, we'll get together Sunday night to kick-off the conference. Whether you participated in the Beach Clean-up or just got into town, head down to Tequila Jacks in the beautiful Shoreline Village for a pre-conference networking, socializing, and ice-breaking event geared to making this P3S conference the most memorable yet!

CONFERENCE LUNCHES

Lunches are included in your registration fee, but an **RSVP for each lunch is REQUIRED to attend.** Help us eliminate wasted lunches!

// MONDAY LUNCH //

12:15PM - 1:30PM

FACILITY OF THE YEAR AWARDS CEREMONY
Stephen Sealy and Casey Fitzgerald

// WEDNESDAY LUNCH //

12:05PM - 1:20PM

P3S GRANT RECIPIENTS AND WORDS FROM INCOMING CHAIR

Alina Constantinescu & Incoming Chair Jennifer Peet

// TUESDAY LUNCH //

12:05PM - 1:20PM

"WHAT IS REAL RISK MANAGEMENT?"
Gordon Graham, Graham Research Consultants

CONFERENCE COMMITTEE

GRANTS COORDINATOR
Alina Constantinescu
Larry Walker Associates

FACILITY OF THE YEAR NORTH
Casey Fitzgerald
City of San Jose

FACILITY OF THE YEAR SOUTH
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Los Angeles County Sanitation Districts

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Orange County Sanitation District

CONFERENCE PHOTOGRAPHER
Nguyen Dang
Los Angeles County Sanitation Districts

p3s.cwea.org

ARE YOU READY?

EPA “DENTAL RULE” IN EFFECT JULY 14, 2020

Most dental practices in the U.S. must have an ISO 11143 certified amalgam separator installed in their practice by July 14, 2020. The Solmetex NXT Hg5 Amalgam Separator is dentistry’s best selling, longest lasting amalgam separator on the market. Trust the leader.

\$300 REBATE
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www.solmetex.com/promotions

Offer valid thru 3.31.2020





A PARTNERSHIP BETWEEN LACSD AND MWD

Take a tour of the Regional Recycled Water Advanced Purification Center, a 0.5 million-gallon-per-day demonstration facility that purifies recycled water to drinking water standards using an innovative purification process. Learn about the treatment process and plans for a full-scale facility that could be the largest of its kind in the world.

The Center is a partnership between The Metropolitan Water District of Southern California and the Sanitation Districts of Los Angeles County.

The tour is 1.5 hours long and includes a presentation and walking tour. Participants should wear long pants and sturdy shoes for the tour. Hard hats and safety vests will be provided.

Bus departs at 1:45 PM and returns by 4:30 PM - \$35 Fee





YOU'RE INVITED TO

ENCHANTMENT UNDER THE SEA



Special guest speaker:

Dr. Jennifer Lentz
Aquarium of the Pacific

P3S SIGNATURE EVENT

AQUARIUM OF THE PACIFIC

6:30-10 PM TUESDAY JANUARY 28, 2020

***INCLUDED FOR FULL CONFERENCE REGISTERED ATTENDEES**

***Two-Day or One-Day Conference attendees - \$52 fee.**

***Opportunity to bring a Spouse or Guest who is not attending the conference - \$83 fee.**

Please join us for a lively evening including networking, socializing and indulging in food, libations, and music while immersed in the beautiful and educational aquarium exhibits.

Begin with a presentation by Jenny Lentz, Ph.D., LEED® Green Associate™ on Sustainability & Resilience at the Aquarium of the Pacific. Opportunity to visit the brand-new Pacific Visions theater and Earn 1 CWEA Contact Hour



Be enchanted by music provided by DJ Manny C while light appetizers will be provided and cash bars will be available for drinks. Experience the groundbreaking interactive Ocean Science Center and other visually stimulating exhibits without the crowds!

"BE THERE OR BE SQUARE!"



**FEATURING
DJ MANNY C**



EMBRACE THE FUTURE OF FOG MANAGEMENT >

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READY TO SEE THE FUTURE? Forget the DeLorean...

Visit **BOOTH #5**, or watch this webinar for your sneak peek:

aquaticinformatics.com/future-of-FOG

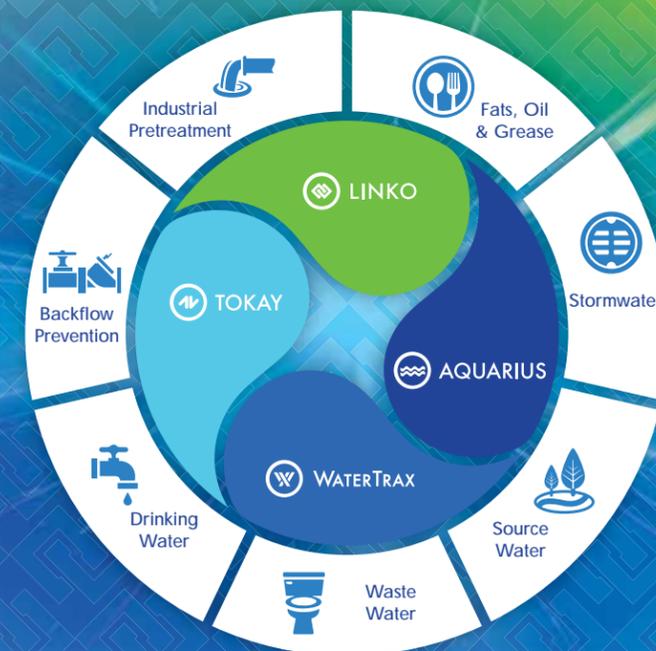


Linko software by Aquatic Informatics manages industrial pretreatment, fats, oils, and grease (FOG) and liquid hauled waste. Over 400 customers choose Linko to fix their wastewater compliance tracking and reporting problems by improving efficiencies across multiple source control programs, ensuring requirements are met, and reducing risk for compliance technicians and managers.



Did You Know?

In 2017, Linko joined the growing portfolio of solutions offered by Aquatic Informatics that address critical water data management, analytics, and compliance challenges throughout the water cycle.



With Aquatic Informatics it's not just software...



On-Call Support: Email, phone & an online portal to connect directly with our support specialists.



Self-Service Support: A growing library of on-demand videos, tutorials, and guides available 24/7.



Professional Services: A team of experts ready to assist with migrations, integrations, and more.



Software Upgrades: Regular updates and enhancements to ensure your evolving needs are met.



Technology Innovation: Help shape the future of our software by submitting ideas and requests.



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OF THE LARGEST US CITIES

1000+
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Aquatic Informatics is a mission-driven software company that empowers utilities and municipalities to tackle tomorrow's water challenges—today. As the world's largest water data management provider trusted by over 1,000 organizations globally, Aquatic Informatics delivers solutions that improve water data integrity, streamline regulatory compliance, and strengthen resilience.





LAN WIBORG

Orange County Sanitation District

Lan is the Director of Environmental Services at Orange County Sanitation District, and oversees OCSD's resource protection, environmental compliance, regulatory affairs, ocean monitoring, laboratory and source control operations. Previously, Lan served as the City of San Diego's Deputy Public Utilities Director overseeing water and energy resource planning and water conservation.



STEPHEN CEASAR

TreePeople

Stephen leads TreePeople's community organizers and guides strategy. His team works to engage and advocate for people in Los Angeles' most economically and environmentally stressed communities. He holds an advanced degree in social work from USC and his work history includes serving as a journalist for the LA and NY Times, and the Arizona Daily Star as well as a media relations consultant where he implemented programs for colleges and universities in institutional vision and storytelling. He is originally from Calexico, California.



MARISSA CHRISTIANSEN

Friends of LA River

Marissa is the Executive Director of Friends of the LA River (FOLAR). Prior to FOLAR, she held roles in policy, advocacy and development at XPRIZE and the Los Angeles County Bicycle Coalition, among others. Her deep abiding love for LA began at USC where she earned her Master's in Urban Planning [fight on]. A proud California native, her primary inspiration is the beauty of our natural landscape – gripped by color and texture, obsessed with the unexpected and overlooked. So to help guide the movement centered on LA's most diversely textured and inconspicuously beautiful resource is basically her dream come true.



ANNA CUMMINS

**5 Gyres
Co-Founder**

With more than 20 years experience in environmental non-profit work – including marine conservation, coastal watershed management, community relations, and bilingual and sustainability education – Anna Cummins is an expert in the field. Her "Synthetic Sea, Synthetic Me" TEDx talk has been viewed and shared by thousands. Anna received her undergraduate degree from Stanford University, and a MA in Environmental Policy from the Middlebury Institute for International Studies.



KEVIN HARDY

National Water Research Institute (NWRI)

Kevin M. Hardy has served as Executive Director of the National Water Research Institute (NWRI) since April, 2017. NWRI promotes the protection, maintenance, and restoration of water supplies, freshwater, and marine environments through the planning and execution of applied research projects. Hardy holds bachelors and masters degrees from San Diego State University, a Juris Doctorate from the University of San Diego School of Law, and is a proud alumni of the Water and Wastewater Leadership Center at the University of North Carolina at Chapel Hill.

CONFERENCE SPONSORS



Science. Policy.
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For sponsorship or exhibitor info contact
Christine Carchia, 510.746.7415 or ccarchia@cwea.org

TECHNICAL SESSIONS

MONDAY - Jan. 27, 2020

CONTINENTAL BREAKFAST 8:00 - 8:30am					
8:30 - 9:50 AM	OPENING GENERAL SESSION Lan Wiborg, Marissa Christiansen, Anna Cummins, Kevin Hardy, Stephen Ceasar				
9:50 - 10:10 AM	BREAK AND EXHIBITS OPEN				
10:15 - 11:30 AM	OPENING GENERAL SESSION (continued) Lan Wiborg, Marissa Christiansen, Anna Cummins, Kevin Hardy, Stephen Ceasar				
11:30 - 12:15 PM	“DEMO THEATER - SPONSORED BY EXHIBITORS”				
12:15 - 1:30 PM	FACILITY OF THE YEAR AWARDS CEREMONY LUNCH Steve Sealy and Casey Fitzgerald				
1:30 - 2:00 PM	DESSERT AND “DEMO THEATER - SPONSORED BY EXHIBITORS”				
SESSION	It's Been A Minute - Industry Updates for Cannabis and Hemp Cultivation	Technology and Today's Pretreatment Regulations	The Wide World of Waste Commodities	SCAP Pretreatment Management Track	TOUR
CHAIR	Berlinda Blackburn, City of Coachella	Alina Constantinescu, Larry Walker Associates	Bryce Dragan & Jason Daniel, OCSD	Steve Jepsen, SCAP	Jason Finn, LACSD
2:00 - 2:50 PM	How Coachella's Cannabis Program Went from a Reefer Madness to A Rational Environmental Compliance Program ■ Berlinda Blackburn	New Management Standards for Hazardous Waste Pharmaceuticals ■ Chuck Durham, PG Environmental	Grease Rendering Facilities ■ Jason Daniel and Bryce Dragan, OCSD	Enhanced Source Control ■ Kristopher McGinnis, LACSD	LACSD and MWD Partnership Regional Recycled Water Advanced Purification Center ■ (\$35 per person) Bus departs: 1:45pm Tour from 2-4pm Bus returns at 4:30pm
2:50 - 3:00 PM	BREAK AND EXHIBITS OPEN				
3:00 - 3:50 PM	Industry Solution and Perspective ■ Kyle Lisabeth Silver Bullet Water Treatment	A Closer Look at the Aluminum Forming Industry ■ Chuck Durham, PG Environmental	The “Shell Game” of Hauled Waste Bryce Dragan, OCSD	OCSD/OCWD Communications and Coordination for GWRS Mark Kawamoto, OCSD	
3:50 - 4:00 PM	BREAK AND EXHIBITS OPEN				
4:00 - 4:50 PM	Regulatory Perspective Celia Pazos, PG, TJ Middlemis-Clark, PE, and Alex Spencer, State Water Boards	Implementing BPT/BAT Control Technologies ■ Miguel Rodas, City of Los Angeles	Centralized Waste Treatment ■ Jason Daniel, OCSD	POTW Current Events Round Table - PFAS, Cannabis and... Steve Jepsen, SCAP	
5:00 - 7:00 PM	PARTY WITH THE PARTNERS				

P3S COMMITTEE BREAKFAST AND MEETING

7:15 - 8:15am

CONTINENTAL BREAKFAST

8:00 - 8:30am

SESSION	PFAS Unmasked	Inspector Training	Water Reuse	Environmental Crimes Workshop
CHAIR	Lori Mckinley, OCSD	Paula Hansen, EBMUD	Bryan Trussell, Trussell Technologies	John Boyd, LACSD
8:30 - 9:20 AM	PFAS Sampling and Analysis for Environmental Matrices Syljohn Estil, LACSD	Industrial User Inspections Greg V. Arthur, USEPA (retired)	Mutually-Beneficial Implementation of Time-Delayed Discharge Plan for Source Control in Water Reuse Dave Richardson, Woodard & Curran	Module 1: An Environmental Crimes Overview Joseph Johns, Environmental Crime and Community Safety Crimes Section, US Attorneys Office
9:20 - 9:30 AM	BREAK AND EXHIBITS OPEN			
9:30 - 10:20 AM	PFAS in Biosolids and Effluent: Assessing and Managing Risk Kevin Long Terraphase Engineering	Representative Sampling, Bypassing and Dilution Greg V. Arthur, USEPA (retired)	Advanced Water Treatment: A True WIN for WRD Phoung Watson, Water Replenishment District of Southern California	Module 2: Building a Case Search Warrants, and Regulatory Agency Expectations Josh Allen, US EPA, Criminal Investigation Division
10:20 - 10:30 AM	BREAK AND EXHIBITS OPEN			
10:30 - 11:20 AM	PFAS Update From the Biosolids Industry Layne Baroldi, Synagro Technologies	Permitting and Finding Sources of Variability Greg V. Arthur, USEPA (retired)	How Big Data Can Protect Wastewater Quality Ricardo (Caco) Baibich, Kando	Module 3: Regulatory Agency Sampling and Evidence Collection for Criminal Cases Eric Bald, LA County Fire Department Health Hazmat/CUPA
11:20 - 12:05 PM	“DEMO THEATER - SPONSORED BY EXHIBITORS”			
12:05 - 1:20 PM	CONFERENCE LUNCH - “WHAT IS REAL RISK MANAGEMENT?” Gordon Graham, Graham Research Consultants			
1:20 - 1:50 PM	DESSERT AND “DEMO THEATER - SPONSORED BY EXHIBITORS”			
SESSION	PFAS Unmasked	Inspector Training	Public Outreach and Communication	Environmental Crimes
CHAIR	Lori Mckinley, OCSD	Paula Hansen, EBMUD	Wendy Wert, LACSD	John Boyd, LACSD
1:50 - 2:40 PM	State Water Board PFAS Actions Annalisa Kihara and Dan Newton, SWRCB	Magical Mystery Tour of Several Types of Pretreatment Systems: What Pretreatment Program Staff Need to Know Paula Hansen, EBMUD	A Legacy of Supporting Groundwater Recharge Jennifer Cabral, OCSD Setting the Standard for Public Support of Recycling through Advanced Water Treatment Gina Ayala, OCWD	Module 4: Interviewing Sources and Verbal Judo for Information Extraction Lenny Washington, OC District Attorney's Office
2:40 - 2:50 PM	BREAK AND EXHIBITS OPEN			
2:50 - 3:40 PM	PFAS Legal Issues Nancy Wilms, Edgcomb Law Group	Case Study on Compliance Inspection at CWT David Joh, LACSD	Carriage Crest Park Kristen Ruffell, LACSD Conservation and Community Engagement Bixby Marshland Wendy Wert, LACSD	Module 5: Witness Prep and Taking the Stand to Testify Lenny Washington, OC District Attorney's Office
3:40 - 3:50 PM	BREAK AND EXHIBITS OPEN			
3:50 - 4:40 PM	PFAS Public Messaging Rebecca Long, OCSD	Pretreatment of Microbrewery Waste Streams John Rowe, CSUS	Protecting Local Waterways by Addressing Aging Infrastructure The Clearwater Program Basil Hewitt, LACSD Working Towards a Monumental Recycled Water Program - The Regional Recycled Water Program Rupam Soni, MWD	Module 6: Environmental Crimes Table Top and Round Table Discussion All Workshop Speakers, Experienced Inspectors Panel
6:30 - 10:00 PM	P3S SIGNATURE EVENT Aquarium of the Pacific, 100 Aquarium Way, Long Beach, CA 90802 (Included for full conference attendees with RSVP and Fee for One/Two Day Attendees)			

CONTINENTAL BREAKFAST

8:00 - 8:30am

SESSION	EPA Training	FOG Workshop	Stormwater	Blue Prints to Success: ECI Exam Test Prep
CHAIR	Amelia Whitson, US EPA (with Jim Polek)	Mary Morse, City of San Jose and Eric Nielsen, South Pacer MUD	Michelle Breiter, OCSD	Shannon Simmers, City of Redlands
8:30 - 9:20 AM	Introduction and Overview of EPA Pretreatment Regulations and Updates ■ Amelia Whitson, EPA	FOG Program Overview: LA Sanitation ■ Theodore Higgins LA Sanitation & Environment	IGP Permit Update and Client Success Story Matt Lentz, GSI Environmental Inc.	PFI Update John Rowe, CSUS Grade 1 ECI Test Prep Shannon Simmers, City of Redlands
9:20 - 9:30 AM	BREAK AND EXHIBITS OPEN			
9:30 - 10:20 AM	Pretreatment Standards: Prohibitions and Local Limits ■ Amelia Whitson, EPA	Creating Effective In-House Training Videos FOG 101: How to Inspect Great Inspectors/Traps ■	CGP Draft Permit Reissuance Status Brandon Roosenboom, State Water Boards	Grade 2 ECI Test Prep George Munoz, City of Riverside
10:20 - 10:30 AM	BREAK AND EXHIBITS OPEN			
10:30 - 11:20 AM	Pretreatment Standards: PCI / PCA Information and Updates ■ Amelia Whitson, EPA	SWRCB WDR Regulations with a State Water Board Office of Enforcement Speaker ■	Dry Weather Diversion Design and Action ■ Jason Finn, LACSD and Speaker TBD, City of Long Beach	Grade 3 ECI Test Prep
11:20 - 12:05 PM	“DEMO THEATER - SPONSORED BY EXHIBITORS”			
12:05 - 1:20 PM	P3S GRANT RECIPIENTS LUNCH AND WORDS FROM INCOMING CHAIR Facilitators: Alina Constantinescu & Incoming Chair Jennifer Peet			
1:20 - 1:50 PM	DESSERT AND “DEMO THEATER - SPONSORED BY EXHIBITORS”			
SESSION	EPA Training	FOG	Going Green	Blue Prints to Success: ECI Exam Test Prep
CHAIR	Amelia Whitson, US EPA	Mary Morse, City of San Jose and Eric Nielsen, South Pacer MUD	Theodore Higgins, City of Los Angeles	Shannon Simmers, City of Redlands
1:50 - 2:40 PM	Industrial User Surveys and Permitting ■ Amelia Whitson, EPA	New Technology for FOG Programs: City of San José Case Study ■ Michael O’Dwyer, SwiftComply Mary Morse, City of San José	One Earth LA Education Program Laura McCalister, City of Los Angeles	PFI Update John Rowe, CSUS Grade 4 ECI Test Prep Kent McIntosh, LACSD
2:40 - 2:50 PM	BREAK			
2:50 - 3:40 PM	Industrial User Inspections ■ Amelia Whitson, EPA	Eliminate Fats In Sewer Systems: Is There a Suitable Fitness Center For This? ■ Quality Is Everyone’s Responsibility: Understanding How Each Stakeholder Plays a Part in Stopping FOG ■	How to Achieve Sustainability in Disadvantaged Communities Jennifer Kong, P.E. City of Los Angeles	ECI Math Test Prep ■ Kent McIntosh, LACSD
LOOK FORWARD TO NEXT YEAR’S CONFERENCE!				



HOTEL INFORMATION



HILTON LONG BEACH

701 W. Ocean Blvd., Long Beach, CA 90831

Phone: 562-753-2107

Conference Rates:

- Single / Double: \$195
- Triple: \$220
- Quad: \$245

* All rooms are subject to local and state taxes

* Cut off for rate is January 9, 2020

Included With Group Rate Booking:

- Standard guestroom wireless internet access
- Discounted Self-Parking rate of \$20/night

Day Parking Information:

- Self-Parking: \$20.00 (Garage and surface)
- Valet: \$32.00

Housing Link For Block:

https://www.hilton.com/en/hi/groups/personalized/L/LGBLHHF-PC2-20200126/index.jhtml?WT.mc_id=POG



510.382.7800
Fax: 510.382.7810



7677 Oakport St, Ste 600
Oakland, CA 94621

P3S.CWEA.org

REGISTRATION INSTRUCTIONS

Before you register yourself or a group of persons online, please read all instructions and make sure you know which lunches, tours, committee meetings and special events you or each person in your group will attend. You will need your online CWEA password or the ability to do a group registration for all those you are registering. Discrepancies may result in delays when you pick up your registration materials at the conference. All conference attendees are required to register.

EARLY BIRD REGISTRATION

Register by Friday, January 3, 2020 to receive a reduced conference registration rate. Mailed early bird registrations MUST be post-marked by Friday, January 3, 2020 and accompanied with the appropriate fee to be processed. Save time by registering online!

MEMBER-DISCOUNTED RATES

CWEA, WEF or CA-NV AWWA memberships qualifies registrant for member- discounted rates, memberships will be verified. The additional cost of a non-member registration rate will be applied toward a one-year CWEA membership, unless otherwise stated on registration form. To ensure accuracy, read all instructions prior to filling out the Reg Form online and all other necessary forms.

ONLINE REGISTRATION

Group and individual online registrations can be processed through CWEA's secure website MyCWEA.org. Event fees are driven by 'registrant type' selected during registration. For P3S20 there are 4 registrant types available: Attendee; Attendee 1 day; Attendee 2 day; and Attendee Full Conference. Please select the appropriate registrant type based on number of days planning to attend the conference. If you have any questions during the online registration process, please contact our Member Services at memberservices@cwea.org or 510-382-7800 x0

RETIRED MEMBERS

Retired Members are eligible for a special registration rate. CWEA Bylaws state that a retired member is any person retired from and not currently affiliated professionally or technically with the water quality field. Retired members are asked to submit a registration form by mail, fax or email.

REGULATORS & ACADEMICS REGISTRATION

Full-time employees of academic institutions and full-time employees of Federal or State of California regulatory agencies are eligible for discounted Regulators and Academics reg fee. To receive this rate, please submit a reg form by mail, fax or email.

STUDENT REGISTRATION

Full-time students are eligible for free registration. A student registration includes lunches with RSVP and the Monday evening Party with the Partners, but does not include the Tuesday evening special event or fee-based tours – these can be purchased separately. This registration type is not available online since students must provide verification of current enrollment (nine or more units per semester). Students are asked to submit a registration form by mail, fax or email.

FULL CONFERENCE MEMBER AND NON-MEMBER REGISTRATION

The Tuesday evening special event is included in a full-conference registration fees, but an RSVP is necessary. Tickets are non-transferable to other conference attendees.

LUNCHES

Lunches are included in the conference registration fees, but an RSVP is necessary to help us to prevent food waste. Please indicate which lunches you will be attending by checking the appropriate box online or on the Conference Registration Form.

SPEAKERS

Technical session and tour speakers are eligible for a special registration rate. They are asked to submit their registration form by mail, fax or email to receive their speaker discount.

REGISTRATION PAYMENT

Full payment may be made by credit card, purchase order, personal check or company/agency check. Credit card payments are accepted using the enclosed registration form or through CWEA's secure website (MyCWEA.org). For check or money order payments, please make them payable to "CWEA P3S 2020". Those who submit payments with an Early Bird Registration fee after January 3, 2020 will be billed for the difference. Registrations received without full payment or purchase order will not be processed. You must be registered for the conference as an attendee to receive contact hours.

REFUND POLICY

Written cancellation notice is required and must be received at least 30 days prior to the conference date. A 25% service fee shall be retained on all cancellations. No refunds will be given for cancellations made less than 30 days prior to the conference. Please consider sending a replacement if you are not able to attend.

SPONSOR AND EXHIBITOR OPPORTUNITIES

For more information about Sponsor and Exhibitor opportunities, please contact Christine Carchia, CWEA Sr. Manager, Exhibitions & Sponsorship Sales at ccarchia@cwea.org or 510-746-7415.

REGISTRATION QUESTIONS

Registration questions may be referred to Member Services at memberservices@cwea.org or 510-382-7800 x0.

SPEAKER QUESTIONS

Speaker questions may be referred to Heidi Wandell, Education Coordinator at hwandell@cwea.org.

DISCLAIMER

CWEA and our Board members and volunteers are not responsible for the actions of speakers or the content of their sessions. 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 an exhibit booth.

Registration Form



Register online here:
MyCWEA.org

REGISTRATION INFORMATION (please print or type)

**EARLYBIRD DEADLINE
IS JANUARY 3, 2020**

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)

Non-member rate includes 1 year membership with CWEA. Please check here if you do not wish to take advantage of CWEA membership:



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 and list your dietary restrictions here:

Lunch included, but RSVP required to help avoid food waste

Full Conference Attendance*: Monday, Jan 27 – Wednesday, Jan 29, 2020

- Member Rate
- Non-Member Rate
- Retired Member
- Regulator
- Academics
- Speaker
- Full-Time Student (must provide proof of attendance with minimum of 9 units for college students; Tuesday special event not included)

**Tuesday Evening Aquarium Event is included in full-conference registration when you indicated you will be attending in the RSVP box above. Tickets are non-transferable and if you are unable to attend this event, discounted registration is not possible.*

Early Bird Deadline 1/3/20	Regular Registration After 1/4/20
<input type="checkbox"/> \$650	<input type="checkbox"/> \$702
<input type="checkbox"/> \$842	<input type="checkbox"/> \$894
<input type="checkbox"/> \$300	<input type="checkbox"/> \$300
<input type="checkbox"/> \$200	<input type="checkbox"/> \$200
<input type="checkbox"/> \$200	<input type="checkbox"/> \$200
<input type="checkbox"/> \$455	<input type="checkbox"/> \$455
<input type="checkbox"/> No cost	<input type="checkbox"/> No cost

Tuesday Aquarium Event*:

- Yes, I will attend
- Not able to attend

Two-Day Conference Attendance

Please choose your days of attendance (select any two days): MONDAY TUESDAY WEDNESDAY

Member Rate	<input type="checkbox"/> \$450	<input type="checkbox"/> \$513
Non-Member Rate	<input type="checkbox"/> \$642	<input type="checkbox"/> \$705
Speaker	<input type="checkbox"/> \$315	<input type="checkbox"/> \$315
Full-Time Student (must provide proof of college attendance w/minimum of 9 units)	<input type="checkbox"/> No cost	<input type="checkbox"/> No cost

One-Day Conference Attendance

Please choose your day of attendance (select one day): MONDAY TUESDAY WEDNESDAY

Member Rate	<input type="checkbox"/> \$300	<input type="checkbox"/> \$351
Non-Member Rate	<input type="checkbox"/> \$492	<input type="checkbox"/> \$543
Speaker	<input type="checkbox"/> \$210	<input type="checkbox"/> \$210
Full-Time Student (must provide proof of college attendance w/minimum of 9 units)	<input type="checkbox"/> No cost	<input type="checkbox"/> No cost

Please RSVP for each lunch you will attend:

MONDAY TUESDAY WEDNESDAY

Lunch included, but RSVP required to help avoid food waste.

Registration continues on the next page...



Registration Form



Register online here:
MyCWEA.org

Page 2

**EARLYBIRD DEADLINE
IS JANUARY 3, 2020**

Optional Conference Events (events are open to all registered conference attendees)

<input type="checkbox"/> Sunday Pre-Conference Networking Beach Clean Up (FREE)		
<input type="checkbox"/> Sunday Pre-Conference Networking Happy Hour (FREE)		
<input type="checkbox"/> Monday Tour: Regional Recycled Water Advance Purification Center (\$35pp)	TOUR TICKET \$	<input type="text"/>
<input type="checkbox"/> Tuesday P3S Committee Meeting with Breakfast (FREE)		
<input type="checkbox"/> Tuesday Evening - Aquarium of the Pacific, Long Beach Special Event (\$52 per two-day or one-day conference attendee)	SPECIAL EVENT TICKET \$	<input type="text"/>
<input type="checkbox"/> Addtl Tues Evening ticket(s) for spouse/guest ____ qty (\$83pp)	SPOUSE/GUEST SPECIAL EVENT TICKET \$	<input type="text"/>
<input type="checkbox"/> Wednesday FOG workshop (FREE)		
<input type="checkbox"/> Additional spouse/guest lunch tickets ____ qty (\$57pp)	SPOUSE/GUEST LUNCH TICKETS \$	<input type="text"/>
<input type="checkbox"/> MONDAY <input type="checkbox"/> TUESDAY <input type="checkbox"/> WEDNESDAY		
	GRAND TOTAL \$	<input type="text"/>

1. WHAT IS YOUR CAREER STAGE?

- Student Job Seeker
- Entry-level Journey-level
- Supervisor Management
- Executive Retiree Other

2. WHAT IS YOUR PRIMARY PRACTICE AREA?

- Collection Systems Electrical/Inst Utility Executive
- Engineering Maintenance Public Outreach
- Operations Laboratory Other
- Stormwater Pretreatment/Source Control

3. WHAT TYPE OF ORGANIZATION DO YOU WORK FOR?

- Municipal - Large (400k+ customers) Municipal - Medium (50k-400k+ customers)
- Municipal - Small (< 50k customers) Non-Municipal - Consulting firm Other
- Non-Municipal - Manufacturer or sales rep. Non-Municipal - Regulator, State or Federal

For payments by check or money order, make payable to: **CWEA P3S 2020**

For payments by credit card, please indicate:

- PURCHASE ORDER (please attach) VISA MASTERCARD DISCOVER AMEX

Account number: _____

Name of account holder: _____

Expiration date: _____

Billing zip code: _____

SIGNATURE: _____

**Register by mail, fax,
or on-line:**
CWEA
7677 Oakport St, Suite 600
Oakland, CA 94621-1935
Fax: 510.382.7810
On-line: MyCWEA.org

**Need help?
We're here for you!**
Contact
MEMBER SERVICES
510.382.7800 x0
memberservices@cwea.org

Monday, January 27, 2020

8:30 am - 11:30 am

Opening General Session

Room: Int'l III, IV & V



Session Chair: Susan Hiestand, Pollution Prevention Specialist, Silicon Valley Clean Water

Susan has worked to protect the water environment for over 20 years with a focus on pollution prevention and environmental compliance in the non-profit and local government sectors. She has dedicated her career and personal mission to clean water and a safe and healthy environment on the planet for all its inhabitants through behavior change education, policy, and program implementation. As a passionate lifelong learner, she continues to pursue growth opportunities and is very interested in the human mind, neuroscience, and the choices we make. She is a meditator and a yogi and holds a Masters in Leadership from St. Mary's College of CA and a Professional Coach Certificate from UC Davis.

8:30 am - 11:30 am

Opening General Session

CWEA Contact Hours: 3.2



General Session Speaker: Lan Wiborg, Orange County Sanitation District

Lan is the Director of Environmental Services at Orange County Sanitation District, and oversees OCSD's resource protection, environmental compliance, regulatory affairs, ocean monitoring, laboratory and source control operations. Previously, Lan served as the City of San Diego's Deputy Public Utilities Director overseeing water and energy resource planning and water conservation.



General Session Speaker: Marissa Christiansen, Friends of LA River

Marissa Christiansen is the Executive Director of Friends of the LA River (FOLAR). Prior to FOLAR, she held roles in policy, advocacy and development at XPRIZE and the Los Angeles County Bicycle Coalition, among others. Her deep abiding love for LA began at USC where she earned her Master's in Urban Planning [fight on]. Her inner compass and lifelong passion for counter-culture has magnetized her to the nonprofit world. A proud California native, her primary inspiration is the beauty of our natural landscape – gripped by color and texture, obsessed with the unexpected and overlooked. So, to help guide the movement centered on LA's most diversely textured and inconspicuously beautiful resource is basically her dream come true.



General Session Speaker: Anna Cummins, Co-Founder, 5 Gyres

With more than 20 years' experience in environmental non-profit work – including marine conservation, coastal watershed management, community relations, and bilingual and sustainability education – Anna Cummins is an expert in the field. Her “Synthetic Sea, Synthetic Me” TEDx talk has been viewed and shared by thousands. Anna received her undergraduate degree from Stanford University, and a MA in Environmental Policy from the Middlebury Institute for International Studies.



General Session Speaker: Kevin Hardy, National Water Research Institute (NWRI)

Kevin M. Hardy has served as Executive Director of the National Water Research Institute (NWRI) since April 2017. Founded in 1991 by Southern California water agencies in partnership with Joan Irvine Smith, NWRI promotes the protection, maintenance, and restoration of water supplies, freshwater, and marine environments through the planning and execution of applied research projects. As NWRI's Executive Director, Mr. Hardy works with researchers, academics, utility managers, regulators and policymakers to: develop water reuse practices and regulations that protect public health; facilitate NWRI's well-established independent expert advisory program; and, to create meaningful and lasting partnerships within the nation's water community. Hardy holds bachelors and masters degrees from San Diego State University, a Juris Doctorate from the University of San Diego School of Law and is a proud alumni of the Water and Wastewater Leadership Center at the University of North Carolina at Chapel Hill.



General Session Speaker: Stephen Ceasar, Community Organizing Coordinator, TreePeople

Stephen leads TreePeople's community organizers and guides strategy. His team works to engage and advocate for people in Los Angeles' most economically and environmentally stressed communities. He holds an advanced degree in social work from USC and his work history includes serving as a journalist for the LA and NY Times, and the Arizona Daily Star as well as a media relations consultant where he implemented programs for colleges and universities in institutional vision and storytelling. He is originally from Calexico, California.

12:15 pm - 1:30 pm

Monday Lunch

12:15 pm - 1:30 pm

Facility of the Year Awards Ceremony Lunch

Host: Casey Fitzgerald

Host: Stephen Sealy

1:45 pm - 4:30 pm

Monday Tour

Room: bus departs from hotel

1:45 pm - 4:30 pm

LACSD and MWD Partnership Regional Recycled Water Advance Purification Center Tour

Take a tour of the Regional Recycled Water Advanced Purification Center, a 0.5 million-gallon per-day demonstration facility that purifies recycled water to drinking water standards using an innovative purification process. Learn about the treatment process and plans for a full-scale facility that could be the largest of its kind in the world. The Center is a partnership between The Metropolitan Water District of Southern California and the Sanitation Districts of Los Angeles County. The tour is 1.5 hours long and includes a presentation and walking tour. Participants should wear long pants and sturdy shoes for the tour. Hard hats and safety vests will be provided. Bus departs at 1:45 PM and returns by 4:30 PM - \$35 Fee

CWEA Contact Hours: 2

SWRCB Wastewater CEUs: 0.25



Tour Guide: Rupam Soni, Principal Public Affairs Representative, Metropolitan Water District

Rupam Soni is a Principal Public Affairs Representative with the Metropolitan Water District of Southern California. She works in the External Affairs Group, where she is responsible for community relations and engagement for a number of Metropolitan's facilities and infrastructure projects, including the Regional Recycled Water Program. Rupam has over 20 years of work experience in the water and wastewater industries. She has a B.S. from UCLA and a M.S. from UC Berkeley.



Host: Jason Finn, Industrial Waste Inspector, LACSD

My name is Jason Finn and I am an Industrial Waste Inspector with the Sanitation Districts of Los Angeles County. I have worked for The Districts for 17 years starting out as a Lab Technician in the microbiology group. I graduated from Cal State University Long Beach with a BS degree in medical microbiology with a minor in chemistry. I have spent the last 8 years working as an Industrial Waste Inspector.

2:00 pm - 4:50 pm

It's Been a Minute - Industry Updates for Cannabis and Hemp Cultivation

Room: Int'l III, IV & V

Session Chair: Berlinda Blackburn, Environmental/Regulatory Program Manager, City of Coachella



Miss Blackburn is the regulatory program manager for the City of Coachella. Ms. Blackburn is an environmental compliance and pretreatment program expert with more than eighteen years of administration and management of formal pretreatment programs in southern California. Miss. Blackburn has managed programs that had both pretreatment compliance inspections (PCIs) and pretreatment compliance audits (PCAs) by EPA. The outcomes from these events demonstrated the knowledge and skills required for the Pretreatment program goals – including general Pretreatment Regulations (40 CFR 403) – Categorical Standards. The City of Coachella has more than two million square feet of indoor cannabis cultivation in many phases of development. Since the adoption of the city ordinance allowing cannabis, the city has conducted data collection to create a baseline for wastewater discharges from indoor cultivation. Ms. Blackburn will provide an overview of Coachella's industrial program pertaining to cannabis operations and wastewater.

2:00 pm - 2:50 pm

How Coachella's Cannabis Program Went from a Reefer Madness to A Rational Environmental Compliance Program

This session will provide an overview of lessons learned in the City of Coachella and the cannabis cultivation and manufacturing industry covering water used/wastewater generated for indoor growing, Constituents of Concern and the inspection process for the cannabis cultivation.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Use data and information from cannabis facilities that will assist with understanding sewer discharges from cultivation and manufacturing.
- Provide guidance to cultivators within their service area.
- Assist their agency in promoting the cannabis industry in a business-friendly approach because of technical information found in the presentation.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1



Primary Speaker: Berlinda Blackburn, Environmental/Regulatory Program Manager, City of Coachella

Miss Blackburn is the regulatory program manager for the City of Coachella. Ms. Blackburn is an environmental compliance and pretreatment program expert with more than eighteen years of administration and management of formal pretreatment programs in southern California. Miss. Blackburn has managed programs that had both pretreatment compliance inspections (PCIs) and pretreatment compliance audits (PCAs) by EPA. The outcomes from these events demonstrated the knowledge and skills required for the Pretreatment program goals – including general Pretreatment Regulations (40 CFR 403) – Categorical Standards. The City of Coachella has more than two million square feet of indoor

cannabis cultivation in many phases of development. Since the adoption of the city ordinance allowing cannabis, the city has conducted data collection to create a baseline for wastewater discharges from indoor cultivation. Ms. Blackburn will provide an overview of Coachella's industrial program pertaining to cannabis operations and wastewater.

3:00 pm - 3:50 pm

Industry Solution and Perspective: Cannabis Cultivation Water Management Best Practices: The Gateway to Better Production

Commercial cannabis cultivation is evolving beyond reverse osmosis (RO) make up water to include integration of recycled irrigation water, condensate reclamation, and minimization of waste streams. This session will compare and contrast the different treatment technologies being used for cultivation and highlight some new R&D efforts being adopted from other agricultural sectors for application within the cannabis industry.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Utilize guidance on best management practices for water use and the data management tools used to help improve water management.
- Describe how hazardous waste management regulations affect water treatment for cultivation.
- Discuss new treatment technologies being considered for cannabis cultivation.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1

Primary Speaker: Kyle Lisabeth, Director of Business Development - Horticulture, Silver Bullet Water Treatment



With over 15 years' experience, Kyle has been focused on improving water management programs across multiple industries, with a central focus of treating water for reuse applications. Kyle attended the University of Texas – Austin, and upon graduation with a BS in Biology and Environmental Sciences, gained years of international water management experience in both North and South America. Since establishing Silver Bullet's Horticulture Division, Kyle has exponentially grown the business unit's install base and cultivated a nationally known water treatment brand for many controlled environment agriculture applications, including cannabis. His knowledge and experience in treating water for agriculture applications has led to Kyle becoming a leading voice in the industry, spurred research partnerships with Colorado State University, collaborated with Colorado government agencies and industry organizations to establish regional Best Management Practices and solidified relationships with several national and regional-based cannabis companies.

4:00 pm - 4:50 pm

Regulatory Perspective

The conversation will cover the State Water Resources Control Board Cannabis General Order and Policy, what we've learned about cannabis cultivation facilities, including cultivation

processes, variance in practices, and cultivation effluent as we've implemented the new policy and program. Topic will be breaking news on the *hopefully* just passed (scheduled for January board meeting) regional (Region 6) small industrial wastewater systems general order. Main points would be our expected impact on POTWs (particularly systems who currently accept hauled wastewater).

Learning Objective(s):

After participating in this session, attendees will be able to:

- Summarize the State Water Boards Cannabis Cultivation General Order and identify what is permitted and unpermitted under the Cannabis Policy.
- Describe indoor commercial cannabis cultivation facilities, processes, and trends in water usage.
- Use real cannabis cultivation effluent analytical results and examples when shaping, drafting, or revising pre-treatment requirements or discharge permits for indoor commercial cannabis operations.

CWEA Contact Hours: 1



Primary Speaker: Celia Pazos, Engineering Geologist; Inspection Team Lead, Santa Ana Regional Water Quality Control Board

Celia Pazos is an Engineering Geologist with the California Water Boards. As part of the new Cannabis Cultivation Regulatory Unit, she has worked to implement the Water Board's Statewide Cannabis Policy in three Southern California Regions, including San Diego, Orange, Riverside, and Los Angeles Counties. The Water Boards Cannabis Cultivation Regulatory Program regulates waste discharges from licensed cultivation operations and enforces environmental laws and regulations at unlicensed illicit cultivation sites. As an inspection team lead, her work includes inspections of both permitted and illicit cannabis cultivation facilities.



Speaker: Timothy (TJ) Middlemis-Clark, Engineer, Lahontan Regional Water Quality Control Board Eastern California Regional Cannabis Unit

TJ Middlemis-Clark is a Water Resource Control Engineer with the Water Boards Eastern California Cannabis Regulatory Unit based out of Region 6 and operating in Regions 6 and 7 (Lahontan and Colorado River Basin) along the eastern edge of California from the Oregon to the Mexican border. The Eastern California Cannabis Regulatory Unit deals with water quality issues related to regulated and illicit cannabis sites in the operating area. Before working for the Water Boards, TJ worked as a consulting engineer on water resources engineering projects.

Speaker: Alex Spencer, Water Resource Control Engineer, Lahontan Water Quality Control Board

Alex Spencer is a Water Resource Control Engineer with the Eastern California Cannabis Regulatory Unit based out of Region 6, but operating in Regions 6 and 7 (Lahontan and Colorado River Basin).

2:00 pm - 4:50 pm

SCAP Pretreatment Management

Room: Pacific



Session Chair: Stephen Jepsen, Executive Director, Southern California Alliance of Publicly Owned Treatment Works

Steve Jepsen, Executive Director - Southern California Alliance of Publicly Owned Treatment Works (SCAP). Mr. Jepsen started a career in civil engineering consulting in 1981. Since 2016, Mr. Jepsen has been serving over 80 public agencies in seven counties of southern California as the Executive Director of SCAP. SCAP monitors upcoming regulations with the goal of collaboration with regulators to prevent promulgation of regulations that are impractical for water and wastewater agencies. Once regulations are passed, SCAP assists members with approaches for compliance through education and guidance from seven specialty committees. Mr. Jepsen is a past president of the San Diego Section CWEA.

2:00 pm - 2:50 pm

Enhanced Source Control

As wastewater agencies move toward more water reuse options - particularly in the drought prone Southern California region - the focus of the source control program has shifted to facilitating compliance with reuse permits, particularly with respect to the identification of sources of emerging contaminants of concern and their control through permitting, outreach, and enforcement.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Describe the Sanitation Districts' source control program history with wastewater recycling and compliance.
- Demonstrate approaches to identify, monitor, and control emerging classes of contaminants in wastewater.
- Describe future source control challenges for the Sanitation Districts' indirect potable reuse project.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1



Primary Speaker: Kristopher McGinnis, Associate Environmental Scientist, Los Angeles County Sanitation Districts

Kristopher McGinnis is an Environmental Scientist with the Los Angeles County Sanitation District, one of the largest wastewater pretreatment administrators in the United States. Mr. McGinnis received his bachelor of science in chemistry in 2011 from Cal Poly, Pomona and is currently certified as an Environmental Compliance Inspector Grade 2 through the California Water Environment Association. Currently, his focus is on contaminants of emerging concern and source control.

3:00 pm - 3:50 pm

OCSD/OCWD Communications and Coordination for GWRS

Involved in a multi-agency water reclamation project? When planning or executing a water reuse project, in addition to the technical challenges, you will face many communication and coordination challenges. Based on 12 years of experience with the world's largest water purification system for indirect potable reuse, we will share with you the major communication and coordination channels created or strengthened to ensure the water reclamation project succeeds.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Develop communication skills for challenging multi agency/department projects.
- Describe how the largest groundwater replenishment system in the world operates.
- Identify the value of source control and pre-treatment as we continue to move forward with more water reuse projects.

CWEA Contact Hours: 1

Primary Speaker: Mark Kawamoto, Engineering Supervisor, Orange County Sanitation Districts

Mark Kawamoto is an engineering supervisor with Orange County Sanitation District's Resource Protection Division. He has extensive experience with source control and pre-treatment programs and is a licensed engineer in California. Mark is also the chair of the SCAP Pre-treatment Committee.

4:00 pm - 4:50 pm

POTW Current Events Round Table: PFAS, Cannabis and...

Join us for a dynamic Pretreatment Leaders Roundtable where you can ask the panel and audience for advice on ways to address your agencies challenges or listen to the panel and audience discuss strategies for addressing Pretreatment challenges. Topics will include: PFAS and other Contaminants of Emerging Concern; Cannabis; Stormwater Dry Weather Diversions; Pretreatment for Support of Water Reuse; and more...

Learning Objective(s):

After participating in this session, attendees will be able to:

- Learn about the latest hot topics in Pretreatment and Source Control that Industry Leaders are addressing
- Discuss with the Industry Leader Panel how the latest hot topics may affect your agency
- Learn how other agencies are addressing the latest hot topics in Pretreatment/Source Control

CWEA Contact Hours: 1



Primary Speaker: Stephen Jepsen, Executive Director, Southern California Alliance of Publicly Owned Treatment Works

Steve Jepsen, Executive Director - Southern California Alliance of Publicly Owned Treatment Works (SCAP). Mr. Jepsen started a career in civil engineering consulting in 1981. Since 2016, Mr. Jepsen has been serving over 80 public agencies in seven counties of southern California as the Executive Director of SCAP. SCAP monitors upcoming regulations with the goal of collaboration with regulators to prevent promulgation of regulations that are impractical for water and wastewater agencies. Once regulations are passed, SCAP assists members with approaches for compliance through education and guidance from seven specialty committees. Mr. Jepsen is a past president of the San Diego Section CWEA.

2:00 pm - 4:50 pm

Technology and Today's Pretreatment Regulations

Room: Catalina



Session Chair: Alina Constantinescu, Project Engineer, Larry Walker Associates

ALINA CONSTANTINESCU, P.E., is a Project Engineer with Larry Walker Associates with over 15 years of experience in the environmental engineering field, with a focus on wastewater permitting and regulatory compliance, development of pollution prevention and pretreatment programs, and stormwater management. Alina is an active member of the CWEA P3S Committee and chaired the 2017 CWEA P3S Conference. She is based in Berkeley, CA and is also active with the Bay Area Clean Water Agencies (BACWA). Alina started her career working in the Industrial Waste Management Division for the City of Los Angeles.

2:00 pm - 2:50 pm

New Management Standards for Hazardous Waste Pharmaceuticals

The Pretreatment Program and the New Management Standards for Hazardous Waste Pharmaceuticals: An oversight of the new amendments to the RCRA regulations relating to hazardous waste pharmaceuticals sewer ban which went into effect August 2019, and how these amendments impact municipal pretreatment programs. Background information will be provided as to how the RCRA and federal pretreatment regulations are linked.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Identify characteristics of a hazardous waste.
- Identify and classify reverse distributors.
- Ensure compliance with the requirements of the hazardous waste pharmaceuticals sewer ban.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1

Primary Speaker: Chuck Durham, Director of Pretreatment Services, PG Environmental



Director of Pretreatment Services Chuck Durham is a Principal Engineer and the Director of Pretreatment Services at PG Environmental. Mr. Durham has three decades of experience, he is a recognized expert in water pollution control regulations, with emphasis on the federal pretreatment program. In various projects supporting 8 EPA regions and 25 states, he has provided the full spectrum of support to develop, implement, streamline, and measure the effectiveness of pretreatment programs. He has conducted more than 600 audits and PCIs, and more than 2,000 industrial inspections, at facilities across the U.S. In addition, he has developed and taught numerous basic and advanced training programs/webinars at local, state, and federal levels. Prior to entering the consulting field in 2001, Mr. Durham served as a Program Manager for the Tennessee Division of Water Pollution Control. Mr. Durham is the Chair of the KY-TN Water Environment Associations' Pretreatment Certification Committee.

3:00 pm - 3:50 pm

A Closer Look at the Aluminum Forming Industry

Join us for an in-depth session on the 40 CFR 467 standard, the processes covered by the regulation, and various waste treatment options typically used by facilities regulated by this standard.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Identify and classify facilities subjected to 40 CFR 467
- Properly permit facilities subject to the aluminum forming regulations
- Properly inspect aluminum forming facilities and ensure compliance with applicable regulations.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1

Primary Speaker: Chuck Durham, Director of Pretreatment Services, PG Environmental



Director of Pretreatment Services Chuck Durham is a Principal Engineer and the Director of Pretreatment Services at PG Environmental. Mr. Durham has three decades of experience, he is a recognized expert in water pollution control regulations, with emphasis on the federal pretreatment program. In various projects supporting 8 EPA regions and 25 states, he has provided the full spectrum of support to develop, implement, streamline, and measure the effectiveness of pretreatment programs. He has conducted more than 600 audits and PCIs, and more than 2,000 industrial inspections, at facilities across the U.S. In addition, he has developed and taught numerous basic and advanced training programs/webinars at local, state, and federal levels. Prior to entering the consulting field in 2001, Mr. Durham served as a Program Manager for the

Tennessee Division of Water Pollution Control. Mr. Durham is the Chair of the KY-TN Water Environment Associations' Pretreatment Certification Committee.

4:00 pm - 4:50 pm

Implementing BPT/BAT Control Technology: Meeting Compliance with Effluent Limitations

While effluent limitations for metal finishers have not changed since last promulgated by EPA in 1982, permit requirements imposed on industrial users (IUs) are becoming more stringent and challenging. Due to this trend, the City of Los Angeles, through the LA Industry Program has begun reaching out to metal finishers within its jurisdiction to educate them regarding the entire overall framework of regulations, especially compliance with effluent limitations. What would be the benefit obtained from this presentation? To present what the Industrial Waste Management Division is doing (through Metal Finishing Champion's group, MFCG) for metal finishers in City of Los Angeles. Secondly, because many IUs fail to comply with effluent limitations, one of the goals of the MFCG is to enable IUs to assess their pretreatment system (PTS), and thus, effectively run it efficiently. At the core of meeting effluent limitations, there is an understanding of Best Practical Technology (BPT) and Best Available Technology (BAT). These two technologies were established by EPA when this agency came up with the numerical effluent limitations for metal finishers. While BPT include simply physical/chemical technology, BAT includes more in-process controls and other best management practices (BMPs) and Pollution Prevention (P2) practices.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Assess a Pretreatment System using BPT/BAT criteria.
- Review the components of a BPT operated system and/or BAT operated system.
- Identify other Best Management Practices (BMPs) and Pollution Prevention (P2) tools that may be incorporated in pretreatment systems.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1

Primary Speaker: Miguel Rodas, Environmental Compliance Inspector (ECI), City of Los Angeles, LA Sanitation & Environment



After working in the private sector (Textiles and Metal Finishing) in Canada for about 14 years, Miguel Rodas came to the United States. Miguel holds a Bachelor's Degree in Natural Science, Chemistry major from California State University Los Angeles (Cat Sate LA). Miguel started with the City of Los Angeles in 2003 as an Environmental Compliance Inspector (ECI) in the Industrial Waste Management Division. With his experience and intensive knowledge in Textiles and t Metal Finishing industry, Miguel is currently assigned to the Significant Industrial users (SIU) group, a more specialized group in the enforcement of the Federal regulations. Miguel has worked in the SIU Group for the past 16 years. Miguel has represented IWMD and the City of Los Angeles as a guest speaker at various conferences presented by the California Water Environment Association (CWEA) and the National Association of Clean water Agencies. Miguel has also

presented to his fellow ECIs in his division on topics related to inspection of facilities. Other experience: site assessment, hazardous waste management, waste minimization, pollution prevention, and industrial processes. Past Presentations:
□ Event: NACWA Conference-2016; National Pretreatment and Pollution Prevention Workshop and Training Location: Hilton Hotel, Long Beach, CA- May 17-20, 2016 Topic: "Survival Skills for Pretreatment Compliance Audits"
Audience: NACWA members □ Event: California Water Environment Association (CWEA); P3S 44th Annual Conference Location: Santa Rosa, CA- Feb 27-March 1, 2017 Topic: "Using 6Ps to Prepare for a Successful and Efficient Pretreatment Compliance Inspection (PCI)" Audience: CWEA members, Other POTWs staff, other water professionals

2:00 pm - 4:50 pm

The Wide World of Waste Commodities

Room: Int'l I & II

Session Chair: Bryce Dragan, Principal Environmental Specialist, OCS&D

Bryce Dragan is a Principal Environmental Specialist with Orange County Sanitation District and has been involved with the Wastehauler Program for 2 years, and currently oversees the program. Bryce was previously the Lead Source Control Inspector and involved with inspection and monitoring of multiple cases involving industrial users and waste hauling permittees. Beginning in 2016, Bryce has been on the P3S Facility of the Year Committee. Bryce holds a degree in Environmental and Occupational Health from California State University, Northridge and has worked in the environmental compliance and wastewater fields for 10 years.

2:00 pm - 2:50 pm

Grease Rendering Facilities

An introduction to the grease rendering industry and its impact on the wastewater community. The presentation will focus on the types of waste, process technology for oil water separation, permit requirements and conditions, pollutants of concern, and the industry's ethical practices and how they impact an agency's enforcement actions.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Recognize and discuss the different types of food waste and oil processing technologies.
- Identify permit requirements and primary pollutants of concern.
- Define special conditions to effectively control grease rendering facilities.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1



Primary Speaker: Jason Daniel, Engineer, Orange County Sanitation District

Jason Daniel is an Engineer with Orange County Sanitation District and has supported the pretreatment program for three years. He has been involved in multiple enforcement cases and is currently managing the permitting program for centralized waste treatment facilities. Prior to his time in environmental protection, his previous experience includes more than 15 years in engineering and construction projects in the oil and gas industry as well as process technology in pharmaceuticals. Jason holds a masters of science in chemical and biochemical engineering and is a registered professional engineer in the state of California.

Speaker: Bryce Dragan, Principal Environmental Specialist, OCSD

Bryce Dragan is a Principal Environmental Specialist with Orange County Sanitation District and has been involved with the Wastehauler Program for 2 years, and currently oversees the program. Bryce was previously the Lead Source Control Inspector and involved with inspection and monitoring of multiple cases involving industrial users and waste hauling permittees. Beginning in 2016, Bryce has been on the P3S Facility of the Year Committee. Bryce holds a degree in Environmental and Occupational Health from California State University, Northridge and has worked in the environmental compliance and wastewater fields for 10 years.

3:00 pm - 3:50 pm

The “Shell Game” of Hauled Waste

Explores the world of waste-haulers of different waste types, including septic tanks, chemical toilets, grease waste from Food Service Establishments, brine, construction dewatering and others. When a generator of waste cannot discharge directly to a sewer collections system, there are challenges in verifying information when the waste arrives at a POTW discharge station in a truck. The verification process can often lead to exhaustive impacts on agency resources. The presentation will cover verification techniques, approaches for investigations, and enforcement actions.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Identify processes used in the grease rendering industry, permit requirements and issues, and challenges with enforcement actions.
- Discuss waste-haulers and the challenges facing POTWs in managing the risks associated with accepting waste from sometimes ill-defined sources.
- Describe the regulation of centralized waste treatment facilities and the complexities that necessitate an enhanced level of control and understanding.

CWEA Contact Hours: 1

Primary Speaker: Bryce Dragan, Principal Environmental Specialist, OCSD

Bryce Dragan is a Principal Environmental Specialist with Orange County Sanitation District and has been involved with the Wastehauler Program for 2 years, and currently oversees the program. Bryce was previously the Lead Source Control Inspector and involved with inspection and monitoring of multiple cases involving industrial users and waste hauling permittees. Beginning in 2016, Bryce has been on the P3S

Facility of the Year Committee. Bryce holds a degree in Environmental and Occupational Health from California State University, Northridge and has worked in the environmental compliance and wastewater fields for 10 years.

4:00 pm - 4:50 pm

Centralized Waste Treatment

An introduction to the federally regulated category of centralized waste treatment facilities. The presentation will delve into the particulars of the federal regulation, waste categorization, permit structure, permit conditions, and downstream implications. The presentation will also present a case study of a permitted facility and their journey to facility of the year.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Define the different types of centralized waste treatment facilities.
- Identify permit structure and requirements.
- Identify and mitigate risks associated with centralized waste treatment facilities.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1



Primary Speaker: Jason Daniel, Engineer, Orange County Sanitation District

Jason Daniel is an Engineer with Orange County Sanitation District and has supported the pretreatment program for three years. He has been involved in multiple enforcement cases and is currently managing the permitting program for centralized waste treatment facilities. Prior to his time in environmental protection, his previous experience includes more than 15 years in engineering and construction projects in the oil and gas industry as well as process technology in pharmaceuticals. Jason holds a masters of science in chemical and biochemical engineering and is a registered professional engineer in the state of California.

Tuesday, January 28, 2020

8:30 am - 11:20 am

Environmental Crimes (Morning)

Room: Pacific



Session Chair: John Boyd, Supervising Industrial Waste Inspector II, LA County Sanitation District

John Boyd is the Supervising Industrial Waste Inspector with the Los Angeles County Sanitation Districts. He has a Bachelor of Science in Geology from the University of California at Los Angeles (UCLA) and is certified as a Grade 3 Environmental Compliance Inspector with the CWEA. He has been with the LACSD since 1987 and has 29 years of experience as an Industrial Waste Inspector. He is a past chair of the CWEA Pretreatment, Pollution Prevention, and Stormwater (P3S) Committee.

8:30 am - 9:20 am

Module 1: An Environmental Crimes Overview

CWEA Contact Hours: 1

Primary Speaker: Joseph Johns, US Attorney's Office

9:30 am - 10:20 am

Module 2: Building a Case, Search Warrants and Regulatory Agency Expectations

CWEA Contact Hours: 1

Primary Speaker: Chris Anderson, US Environmental Protection Agency

10:30 am - 11:20 am

Module 3: Regulatory Agency Sampling and Evidence Collection for Criminal Cases

Learning Objective(s):

After participating in this session, attendees will be able to:

- Assess if any particular event falls within the jurisdiction of the Consolidated Unified Participating Agency (CUPA).
- Determine if immediate action by the one or more of the Unit within the Health Hazardous Materials Division.
- Describe the tools available to assist in your investigation.

CWEA Contact Hours: 1

Primary Speaker: Eric Bald, Hazardous Materials Specialist, Health Hazardous Materials Division - Investigations Unit

Eric Bald, is a Hazardous Materials Specialist of the Los Angeles County Fire Department - Health Hazardous Materials Division, assigned to the Investigations Unit. Eric holds a certification as a Certified Hazardous Materials Manager from Institute of Hazardous Materials Management. He also is Engineer-in-Training and studying for his Professional Engineering licensure. Eric possesses a Bachelor's of Science as well as Master's of Science from Cal Poly Pomona. His training included working in cancer biology and toxicology. As noted above, has been assigned to the Investigation unit of the Health Haz Mat Division - the

past 4 years. Prior to that time, he was assigned as an inspector for 15 years. Preceding this time, he was a Fire Prevention Engineering Assistant within the Fire Prevention Division.

8:30 am - 11:20 am

Inspector Training (Morning)

Room: Catalina

Session Chair: Paula Hansen, Wastewater Control Inspector II, East Bay Municipal Utility District



Paula Hansen, Wastewater Control Inspector II at EBMUD, received her Bachelor of Science degree in chemical engineering from Purdue University and Master of Science degree in chemical engineering from the University of California, Berkeley. After starting her career in industry doing research and development and process engineering, she then switched to environmental consulting when the environmental practice area was in its early stages. She has significant experience in remediation, developed and oversaw an operations and maintenance (O&M) program for treatment systems based on elements typically employed in chemical manufacturing, such as statistical process control and predictive preventive maintenance. Her water/wastewater management expertise was gained working with private and municipal clients on industrial wastewater treatment design, compliance, permitting and pretreatment support and enforcement over several decades.

8:30 am - 9:20 am

Industrial User Inspections

The attendees will take away methods and reasons for conducting effective and efficient compliance inspections of industrial users in support of permitting, environmental monitoring, standards and limits, compliance, auditing, enforcement, and criminal enforcement.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Formulate and incorporate inspection methods and rationales to better conduct industrial user inspections.
- Identify the different types of compliance requirements and determine ways to best to determine compliance.
- Describe an integrated view of compliance brought about through permitting, inspections, compliance monitoring, and enforcement.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1

Primary Speaker: Gregory Arthur, former Senior Inspector, CWA Compliance Office, USEPA (retired)



Mr. Arthur is a 30-year veteran of U.S. Environmental Protection Agency, Region 9, who left the agency in 2013. From 2013-2015, he worked as a Senior Project Engineer for EEC Environmental. Since then, he has changed careers, but is happy to share his experience in particular regarding pretreatment. He has an academic background in water pollution control and applied expertise in wastewater and stormwater control. He had broad regulatory experience in all aspects of the NPDES program, including standards, permits, inspections, sampling, self-monitoring, compliance, litigation, enforcement, pretreatment, stormwater, 301(h) waivers, and State oversight. His technical experience involved the corresponding aspects of water pollution control — sewage, stormwater, drainage, and brines into sewage treatment plants, sewers, and storm sewers, and industrial wastewaters from military facilities, metal finishers, shipyards, refineries, mines, pharmaceuticals, centralized waste treaters, food processors, and others. Education/Certifications Master of Science, Civil Engineering, Stanford University, 1983 Bachelor of Science, Civil Engineering, Stanford University, 1983 California Professional Engineer, Civil, California, 1985 Silver Cover Award, California Water Environment Association (CWEA) PS3 Committee, 2008 Training courses, lectures, and professional papers for CWEA, Oregon Association of Clean Water Agencies, Stanford University, Surface Technology Association, the City of Los Angeles, CLE International, the U.S. Geological Survey, Food and Beverage Environmental Conference, among others. Currently one of the pastors at Creekside Community Church, San Leandro, CA

9:30 am - 10:20 am

Representative Sampling, Bypassing and Dilution

The attendees will take away an appreciation for monitoring in ways that can successfully be used to make determinations of compliance with standards and limits.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Formulate and implement compliance monitoring plans and methods that can be successfully used to make determinations of past compliance as well as of predicted future compliance.
- Identify the common challenges to representative sampling for determination of compliance.
- Describe an integrated view of compliance brought about through permitting, inspections, compliance monitoring, and enforcement.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1

Primary Speaker: Gregory Arthur, former Senior Inspector, CWA Compliance Office, USEPA (retired)



Mr. Arthur is a 30-year veteran of U.S. Environmental Protection Agency, Region 9, who left the agency in 2013. From 2013-2015, he worked as a Senior Project Engineer for EEC Environmental. Since then, he has changed careers, but is happy to share his experience in particular regarding pretreatment. He has an academic background in water pollution control and applied expertise in wastewater and stormwater control. He had broad regulatory experience in all aspects of the NPDES program, including standards, permits, inspections, sampling, self-monitoring, compliance, litigation, enforcement, pretreatment, stormwater, 301(h) waivers, and State oversight. His technical experience involved the corresponding aspects of water pollution control — sewage, stormwater, drainage, and brines into sewage treatment plants, sewers, and storm sewers, and industrial wastewaters from military facilities, metal finishers, shipyards, refineries, mines, pharmaceuticals, centralized waste treaters, food processors, and others. Education/Certifications Master of Science, Civil Engineering, Stanford University, 1983 Bachelor of Science, Civil Engineering, Stanford University, 1983 California Professional Engineer, Civil, California, 1985 Silver Cover Award, California Water Environment Association (CWEA) PS3 Committee, 2008 Training courses, lectures, and professional papers for CWEA, Oregon Association of Clean Water Agencies, Stanford University, Surface Technology Association, the City of Los Angeles, CLE International, the U.S. Geological Survey, Food and Beverage Environmental Conference, among others. Currently one of the pastors at Creekside Community Church, San Leandro, CA

10:30 am - 11:20 am

Permitting and Finding Sources of Variability

The attendees will take away an appreciation for approaching permitting in ways that better ensure future consistent compliance with standards, limits, and prohibitions.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Formulate and implement the types of inspections and monitoring in support of permitting that would better ensure future consistent compliance with standards and limits.
- Identify that the purpose of permitting is to control variabilities, (2) will be able to identify the common sources of variability that come from operations, wastewater generation, delivery, treatment, and method of discharge, as well as (3) will be able to formulate methods to control variabilities through permitting.
- Describe an integrated view of compliance through permitting, inspections, compliance monitoring, and enforcement.

CWEA Contact Hours: 1

Primary Speaker: Gregory Arthur, former Senior Inspector, CWA Compliance Office, USEPA (retired)



Mr. Arthur is a 30-year veteran of U.S. Environmental Protection Agency, Region 9, who left the agency in 2013. From 2013-2015, he worked as a Senior Project Engineer for EEC Environmental. Since then, he has changed careers, but is happy to share his experience in particular regarding pretreatment. He has an academic background in water pollution control and applied expertise in wastewater and stormwater control. He had broad regulatory experience in all aspects of the NPDES program, including standards, permits, inspections, sampling, self-monitoring, compliance, litigation, enforcement, pretreatment, stormwater, 301(h) waivers, and State oversight. His technical experience involved the corresponding aspects of water pollution control — sewage, stormwater, drainage, and brines into sewage treatment plants, sewers, and storm sewers, and industrial wastewaters from military facilities, metal finishers, shipyards, refineries, mines, pharmaceuticals, centralized waste treaters, food processors, and others. Education/Certifications Master of Science, Civil Engineering, Stanford University, 1983 Bachelor of Science, Civil Engineering, Stanford University, 1983 California Professional Engineer, Civil, California, 1985 Silver Cover Award, California Water Environment Association (CWEA) PS3 Committee, 2008 Training courses, lectures, and professional papers for CWEA, Oregon Association of Clean Water Agencies, Stanford University, Surface Technology Association, the City of Los Angeles, CLE International, the U.S. Geological Survey, Food and Beverage Environmental Conference, among others. Currently one of the pastors at Creekside Community Church, San Leandro, CA

8:30 am - 11:20 am

PFAS Unmasked (Morning)

Room: Int'l III, IV & V



Session Chair: Lori McKinley, Senior Environmental Specialist, OCSD

Lori McKinley is a Senior Environmental Specialist in the Industrial Source Control Section of the Resource Protection Division at the Orange County Sanitation District, and is a Board-Certified Environmental Scientist with the American Academy of Environmental Engineers and Scientists (AAEES). After post-graduate work at the Uppsala Limnology Institute, she began her environmental career as a water quality analyst with Länsstyrelsen in Östersund, Sweden, followed by serving as Senior Analyst in the OCSD laboratory for 25 years, where her work included the analyses of a variety of matrices for chlorinated pesticides and PCB congeners. Lori holds a Bachelor of Science degree in Biology from California State Polytechnic University, Pomona.

8:30 am - 9:20 am

PFAS Sampling and Analysis for Environmental Matrices

Per and polyfluoroalkyl Substances (PFAS) are a class of highly stable, synthetic organic compounds widely used in various commercial and industrial applications. They have been widely detected in the environment and are known to be persistent and bioaccumulative. These compounds have been extensively studied in various environmental matrices (e.g. drinking

water, non-potable water, sediments, biosolids, and biological tissues), but consensus analytical methodologies have yet to be established for non-potable water, solids, and biological tissues. Interest in PFAS has grown exponentially and agencies must be prepared to respond to growing public concerns and fast-approaching PFAS regulations. This presentation will discuss the myriad of challenges in PFAS workflows, analytical methodologies currently available, as well as updates on methods being developed by the EPA.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Implement the necessary requirements for a PFAS sampling program.
- Determine the most appropriate PFAS analytical method for a given project.
- Update their respective agencies/companies on new analytical method development projects.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1

Primary Speaker: Syljohn Estil, Senior Chemist, Sanitation Districts of Los Angeles County

Syljohn Estil is a Senior Scientist at the Sanitation Districts of Los Angeles County. He previously worked as a research chemist specializing in LC-MS/MS analysis and analytical method development for contaminants of emerging concern (CECs) in various environmental matrices and has worked extensively on per- and polyfluoroalkyl substances (PFAS). He is currently the team lead for the program/project management section of the LACSD laboratories section and is the primary lab contact for all PFAS-related projects at LACSD. Syljohn holds a bachelor's degree in Biology and a master's degree in Environmental Science.

9:30 am - 10:20 am

PFAS in Biosolids and Effluent: Assessing and Managing Risk

Given their extensive presence in many common products and their broad use in commercial and industrial applications since the 1940s, the waste streams to many publicly owned water treatment plants (POTW) contain PFAS. This is especially true for those facilities receiving industrial wastewater or landfill leachate. Unfortunately, conventional treatment methods are unable to remove PFAS from these waste streams, creating conditions in which POTWs are perceived to be “secondary sources” of PFAS releases to the environment – either via the discharge of effluent to surface water, via the disposal of biosolids in landfills, or via land application (recycling) of biosolids for agricultural purposes. Overall, PFAS means increasing challenges, costs, and liabilities for POTWs. In this session, I will briefly discuss why these chemicals have become such a dilemma and whether the current state of risk assessment science can serve as a tool in helping POTWs navigate the substantial PFAS risk management challenge.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Recognize some of the key complexities of PFAS fate and transport that could impact or be associated with POTWs and communicate what exposures scenarios/routes are, and are not, relevant with consideration for PFAS in the environment.

- Utilize risk assessment science more effectively in helping their organizations navigate PFAS risk management challenges.
- Prepare organizations for forthcoming regulatory and public attention/actions relating to PFAS.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1

Primary Speaker: Kevin Long, Principal Consultant, Terraphase Engineering, Inc.



Kevin Long is a Principal Consultant and risk assessor with Terraphase Engineering, Inc and brings two decades of experience applying risk assessment and risk management strategies to support remedial action/closure of sites across the country. This has included sites that have required the evaluation of unique exposure scenarios or exposure to complex/emerging chemicals, including PFAS. He has also provided support in conducting risk communication to the public, regulatory agencies and other stakeholders. Kevin has served as a contributing author for technical guidance published by the Interstate Technical and Regulatory Council (ITRC) regarding site risk assessment, bioavailability of contaminants in soil, and PFAS. In 2017, he was invited to present to the Philadelphia Bar Association on the current state of the science respecting PFAS exposure, toxicology, and risk management. Since December 2018, he has been helping ITRC by providing national training on PFAS toxicology and site risk assessment including workshops in New Jersey, Michigan, North Carolina, and Washington State - states which have been dealing with significant PFAS challenges. Kevin earned a bachelor's degree in 2000 and master's degree in 2006, both in Civil and Environmental Engineering, from Princeton University in Princeton, New Jersey

10:30 am - 11:20 am

PFAS Update from the Biosolids Industry

This session will provide an up-to-date report on the legislative, regulatory and legal activities that are addressing public concerns and proposed remedies related to PFAS in biosolids and the next steps that the wastewater industry associations are pursuing to ensure that sound science is used to develop appropriate regulations for biosolids management.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Identify that PFAS is an emerging contaminant in wastewater and biosolids that must be addressed.
- Discuss the issues that are related to legislative and regulatory developments regarding PFAS.
- Be conversant regarding the technical, regulatory and legal developments related to biosolids management implications regarding PFAS.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1

Primary Speaker: Layne Baroldi, VP of Government Affairs & Technical Services, Synagro Technologies



As the VP of Government Affairs & Technical Services at Synagro Technologies, Layne provides guidance on the company's policies and objectives involving local, state, and federal government legislative, regulatory and land permitting activities. He has been active in the area of biosolids management for 30 years. Prior to joining Synagro in 2009, he acquired 23 years of municipal experience at the Orange County Sanitation District, first protecting biosolids quality through the enforcement of the National Pretreatment Program and then supervising the biosolids and air quality management division. He received a B.S. Degree from the University of Southern California and a JD Degree from Western State University College of Law and is a member of the State Bar of California, former Board Member of the Los Angeles County Sanitation District and Mayor of the City of La Habra Heights, CA.

8:30 am - 11:20 am

Water Reuse

Room: Int'l I & II

Session Chair: Bryan Trussell, Principal Engineer, Trussell Technologies



Bryan Trussell has a B.S. in Civil Engineering from the University of California at Berkeley and a M.S. in Environmental Engineering from the University of Illinois at Urbana-Champaign. Mr. Trussell is a registered Civil Engineer in the State of California with more than sixteen years of work experience. Bryan began his career by working 9 years with the City of Los Angeles' Bureau of Sanitation, bringing invaluable insight and perspective to the many challenges facing today's utilities. Since joining Trussell Tech, he has worked on several advanced treatment projects including the pilot and bench testing for the Terminal Island Advanced Oxidation Process testing, pilot testing for the advanced wastewater treatment facility at the Donald C. Tillman Water Reclamation Facility, and the development of engineering reports for the City of Los Angeles' Donald C. Tillman's Groundwater Recharge Project and Upper District's Indirect Reuse Replenishment project. Mr. Trussell is a co-principal investigator for Water Research Foundation 4600 (Soil Aquifer Treatment Characterization with Soil Columns for Groundwater Recharge in the San Fernando Valley) to further our understanding of the positive benefits of this natural process.

8:30 am - 9:20 am

Mutually-Beneficial Implementation of Time-Delayed Discharge Plan for Source Control in Water Reuse

Through a public-private partnership, the West Bay Sanitary District (WBSD or District) is making a strategic investment in water reuse infrastructure with its recycled water project at the Sharon Heights Golf & Country Club. WBSD will be discussing how it is working with its major wastewater discharger to implement source control measures for protecting recycled water quality for intended end uses. The project provides an excellent example of how enforceable Best Management Practices (BMPs) in discharge permits is an effective alternative to numerical concentration or mass-based local limits for maintaining recycled water quality. WBSD is

interested in practicing source control measures to reduce TDS in the influent wastewater prior to it being pumped into the satellite treatment facility. To this end, WBSD is collaborating with SLAC National Accelerator Laboratory to reduce its TDS contribution in flows to the recycled water facility. After considering various solutions for reducing TDS in the source water, WBSD and SLAC has agreed on a time-delayed discharge plan. This session will address both the benefits and challenges associated with the Sharon Heights project, discuss alternatives considered for source control measures, and share strategies for successfully implementing a project that is beneficial to all parties involved.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Recognize the importance of pollution prevention in water reuse.
- Evaluate approaches for recycled water quality control.
- Consider collaborative approaches to source control.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1



Primary Speaker: Dave Richardson, Senior Water Resources Engineer/Principal, Woodard & Curran

Dave Richardson is a National Practice Leader for Woodard & Curran, focused on the Wastewater and Recycled Water markets. Dave has served as a technical advisor to project teams providing a broad range of engineering and planning services, including master planning, integrated water management planning, project funding development, environmental documentation, decision process support, design, and construction management services. In this role, he provides technical guidance and oversight to ensure that Woodard & Curran's projects are technically sound and that client needs are met. Dave holds a B.S. and M.S. degree in Civil Engineering, as well as an M.B.A. from Stanford.



Speaker: Phil Scott, District Manager, West Bay Sanitary District

Phil Scott is District Manager at West Bay Sanitary District since February 2010. Phil has a Bachelor's degree in Business Management and has a CWEA Grade 4 in Collection System Maintenance, DHS T2 in Water Treatment, and DHS D4 in Water Distribution. He has been in the wastewater business since 1981 and is very excited to unveil the District's first satellite Recycled Water Treatment Facility in Menlo Park at the Sharon Heights Golf Club.

9:30 am - 10:20 am

Advanced Water Treatment: A True WIN for WRD

The Water Replenishment District of Southern California (WRD) established the Water Independence Now (WIN) initiative to end WRD's reliance on imported water for groundwater replenishment. WIN is comprised of a suite of projects including expansions to existing water

treatment facilities, spreading operations, and stormwater capture facilities. The largest component of the WIN program is the Albert Robles Center (ARC, formerly known as the Groundwater Reliability Improvement Project [GRIP]). The ARC will produce 10,000 acre-feet of advanced treated recycled water annually from local alternative sources to replenish the Central Basin, thereby eliminating the current demand for imported water.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Employ a range of advanced treatment technologies such as microfiltration, reverse osmosis, and advanced oxidation.
- Balance recharge water supplies in Southern California using rainwater, imported water, tertiary treated recycled water, and advanced treated recycled water.
- Creatively think about how to minimize imported water while maximizing the use of recycled water.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1

Primary Speaker: Phuong Watson, Senior Engineer, Water Replenishment District of Southern California

Phuong Watson works as a Senior Engineer in the Engineering Department of the Water Replenishment District of Southern California (WRD). Ms. Watson has over 20 years of experience working on projects related to groundwater quality, recycled water reuse, and regulatory compliance. She is a registered Professional Engineer in the State of California and received her Bachelor of Science in Environmental Studies from the University of Southern California and her Master of Science in Environmental Engineering from California State Polytechnic University, Pomona.

10:30 am - 11:20 am

How Big Data Can Protect Wastewater Quality

The session will cover selected subjects in wastewater source control practice, mainly the following: wastewater monitoring regulations outside of the US, big data technologies in wastewater applications, machine learning, artificial intelligence and how they improve the source control efficiency, and case studies from around the world.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Discuss wastewater regulations outside of the US and how they affect a WWTP.
- Showcase how big data technologies are integrated in wastewater applications.
- Realize how big data supports smart wastewater management system in supporting utilities to meet the required regulations.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1



Primary Speaker: Ricardo (Caco) Baibich

Ricardo is Kando's CTO, providing innovative smart management solutions for wastewater utilities. Holding a BSc in Software Engineering and with 20 years of experience in Research and Development in water and wastewater monitoring and precision agriculture, Caco was responsible for a number of international multidisciplinary projects, involving remote sensing, IoT and a lot of data and algorithms. Passionate about the Technology, Energy and Water nexus, has been building solutions for a better world ever since.

12:05 pm - 1:20 pm

Tuesday Lunch

Room: Int'l III, IV & V

12:05 pm - 1:20 pm

What is Real Risk Management?

The phrase “risk management” gets thrown around quite a bit, but what is “real” risk management? It is more than the “safety” stuff, the “insurance” stuff and the “ergonomics” stuff. Everything you do in your organization involves a level of Risk. In this brief program, Gordon will explain how to “recognize” the real risks you face, give you some thoughts on how to “prioritize” these risks, and show you how to “mobilize”(act) to do something about the real risks you face in your organization.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Describe the breadth and depth of "Real Risk Management" and how it applies to the attendees' specific organization.
- Recognize the "Ten Families of Risk" and how to identify the "real" risks their organization faces in each of these families.
- Identify how to build processes to address these identified risks and help prevent future problems from occurring.

CWEA Contact Hours: 1

Primary Speaker: Gordon Graham, Owner, Graham Research Consultants



Gordon Graham is a retired 33-year veteran of California Law Enforcement. During his tenure as a police professional, he was awarded his Teaching Credential from California State University, Long Beach. He later graduated from University of Southern California with a Master's Degree in Safety and Systems Management. Subsequent to this he graduated from Western State University with a Juris Doctorate. His education as a Risk Manager and experience as a practicing Attorney, coupled with his extensive background in law enforcement, have allowed him to rapidly become recognized as a leading professional speaker with multiple areas of expertise. Mr. Graham has taken this background as a street cop, supervisor and manager and coupled it with his formal education as a risk manager and his education and experiences as an attorney and is the Co-Founder of Lexipol – a company designed to standardize policies, procedures and training within fire departments and law enforcement agencies around America. Over the last decade, Mr. Graham has made over 3,000 presentations to various groups including law enforcement, corrections personnel, fraud investigators, fire professionals, EMS, other first responders, legal professionals, educators, city, county and district employees, law firms, and hospitals along with many other high-risk private sector organizations. In 1995 he received the Governor's Award (sole recipient) for Excellence in Law Enforcement Training from Governor Wilson. In 2008 he received the lifetime achievement award from California POST. In 2015, Mr. Graham received the lifetime dedication award from the International Public Safety Leadership and Ethics Institute. In 2018 he received the James Oberstar Sentinel for Safety Award for his lifetime work in improving aviation safety internationally. In 2019 he received the Howard W. Rayon Distinguished Service Award. His penetrating wit coupled with his vast knowledge in multiple disciplines provides the enlightened listener with an information packed seminar.

Host: Jonathon Powell, Source Control Supervisor, Resource Protection Division, Orange County Sanitation District



Jonathon E. Powell has a Bachelor of Science Degree in Molecular Biology with a Minor in Chemistry from Chapman University (2005), as well as a Masters Degree in Civil Engineering from Loyola Marymount University (2011). Jonathon began his professional career working for the Los Angeles County Sanitation Districts (LACSD) in 2005 as a Laboratory Technician and moved into his first pretreatment role as an Engineering Technician for the Industrial Waste Group in 2008. Jonathon began volunteering with the Pretreatment, Pollution Prevention, and Stormwater Committee (P3S) of the California Water Environment Association (CWEA) when he became an Inspector in 2010. In 2016, Jonathon was selected to be the Lead Source Control Inspector at the Orange County Sanitation District (OCSD) and shortly thereafter was promoted to Associate Engineer within the Resource Protection Division. In 2019, Jonathon was selected as the Source Control Supervisor for the Inspection group at OCSD. Currently, Jonathon oversees the daily operations regarding inspection and monitoring duties, special projects and Investigations, and hauler compliance within the OCSD service area. In 2017, Jonathon was awarded the highest level of distinction amongst P3S volunteers, the Order of the Silver Cover. Also in 2017, Jonathon won the State Award for P3S Person of the Year. Jonathon is the current P3S Committee Chair, and has coordinated quarterly business meetings and several tool belt training events, and has championed and supported several other

special projects and programs within P3S and CWEA. Jonathon believes in being a community leader, educator, steward of the environment, and is very passionate about the work he does. Jonathon is a devoted employee to his Agency and the colleagues around him, and only puts his work second to his family; his wife Jamie and two sons, Jack(3) and James(1), are his motivation, inspiration, and support.

1:50 pm - 4:40 pm

Environmental Crimes (Afternoon)

Room: Pacific



Session Chair: John Boyd, Supervising Industrial Waste Inspector II, LA County Sanitation District

John Boyd is the Supervising Industrial Waste Inspector with the Los Angeles County Sanitation Districts. He has a Bachelor of Science in Geology from the University of California at Los Angeles (UCLA) and is certified as a Grade 3 Environmental Compliance Inspector with the CWEA. He has been with the LACSD since 1987 and has 29 years of experience as an Industrial Waste Inspector. He is a past chair of the CWEA Pretreatment, Pollution Prevention, and Stormwater (P3S) Committee.

1:50 pm - 2:40 pm

Module 4: Interviewing Sources and Verbal Judo for Information Extraction

CWEA Contact Hours: 1

Primary Speaker: Lenny Washington, Orange County District Attorney's Office Consumer/Environmental Protection Unit

2:50 pm - 3:40 pm

Module 5: Witness Prep and Taking the Stand to Testify

CWEA Contact Hours: 1

Primary Speaker: Lenny Washington, Orange County District Attorney's Office Consumer/Environmental Protection Unit

3:50 pm - 4:40 pm

Module 6: Environmental Crimes Table Top and Round Table Discussion

CWEA Contact Hours: 1

1:50 pm - 4:40 pm

Inspector Training (Afternoon)

Room: Catalina

Session Chair: Paula Hansen, Wastewater Control Inspector II, East Bay Municipal Utility District



Paula Hansen, Wastewater Control Inspector II at EBMUD, received her Bachelor of Science degree in chemical engineering from Purdue University and Master of Science degree in chemical engineering from the University of California, Berkeley. After starting her career in industry doing research and development and process engineering, she then switched to environmental consulting when the environmental practice area was in its early stages. She has significant experience in remediation, developed and oversaw an operations and maintenance (O&M) program for treatment systems based on elements typically employed in chemical manufacturing, such as statistical process control and predictive preventive maintenance. Her water/wastewater management expertise was gained working with private and municipal clients on industrial wastewater treatment design, compliance, permitting and pretreatment support and enforcement over several decades.

1:50 pm - 2:40 pm

Magical Mystery Tour of Several Types of Pretreatment Systems: What Pretreatment Program Staff Need to Know

Inspecting industrial wastewater pretreatment systems is fundamental to performing the role of sanitation agency inspector well and protecting the municipal collection system and wastewater treatment plant. Using examination of case study examples for several types of commonly encountered pretreatment systems, the participants will be able to better understand what they are looking at when inspecting a pretreatment system, what kinds of things incorporated into the design or operational practices can increase the risk of non-compliance, and how to best configure sampling schemes to achieve representative data. Pretreatment system types such as pH adjustment of highly buffered and minimally buffered wastewater matrices; removal of dissolved metals via ion exchange or precipitation; and/or treatment trains employed by different categories of centralized waste treating facilities for metal bearing waste treatment and recovery, oily waste, organics, or multiple wastestreams.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Differentiate between alternative types of treatment systems, including typical components, operational steps, common design pitfalls and deficiencies in the types of systems covered.
- Assist dischargers seeking to implement effective pretreatment.
- Recognize and identify sources of compliance risks in the pretreatment systems covered.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1

Primary Speaker: Paula Hansen, Wastewater Control Inspector II, East Bay Municipal Utility District



Paula Hansen, Wastewater Control Inspector II at EBMUD, received her Bachelor of Science degree in chemical engineering from Purdue University and Master of Science degree in chemical engineering from the University of California, Berkeley. After starting her career in industry doing research and development and process engineering, she then switched to environmental consulting when the environmental practice area was in its early stages. She has significant experience in remediation, developed and oversaw an operations and maintenance (O&M) program for treatment systems based on elements typically employed in chemical manufacturing, such as statistical process control and predictive preventive maintenance. Her water/wastewater management expertise was gained working with private and municipal clients on industrial wastewater treatment design, compliance, permitting and pretreatment support and enforcement over several decades.

Speaker: Gregory Arthur, former Senior Inspector, CWA Compliance Office, USEPA (retired)

Mr. Arthur is a 30-year veteran of U.S. Environmental Protection Agency, Region 9, who left the agency in 2013. From 2013-2015, he worked as a Senior Project Engineer for EEC Environmental. Since then, he has changed careers, but is happy to share his experience in particular regarding pretreatment. He has an academic background in water pollution control and applied expertise in wastewater and stormwater control. He had broad regulatory experience in all aspects of the NPDES program, including standards, permits, inspections, sampling, self-monitoring, compliance, litigation, enforcement, pretreatment, stormwater, 301(h) waivers, and State oversight. His technical experience involved the corresponding aspects of water pollution control — sewage, stormwater, drainage, and brines into sewage treatment plants, sewers, and storm



sewers, and industrial wastewaters from military facilities, metal finishers, shipyards, refineries, mines, pharmaceuticals, centralized waste treaters, food processors, and others. Education/Certifications Master of Science, Civil Engineering, Stanford University, 1983 Bachelor of Science, Civil Engineering, Stanford University, 1983 California Professional Engineer, Civil, California, 1985 Silver Cover Award, California Water Environment Association (CWEA) PS3 Committee, 2008 Training courses, lectures, and professional papers for CWEA, Oregon Association of Clean Water Agencies, Stanford University, Surface Technology Association, the City of Los Angeles, CLE International, the U.S. Geological Survey, Food and Beverage Environmental Conference, among others. Currently one of the pastors at Creekside Community Church, San Leandro, CA

2:50 pm - 3:40 pm

Case Study on Compliance Inspection at Centralized Waste Treatment

Session is focused on compliance & facility inspection through the eyes of a local control authority regulator. Participants will be introduced to a short introduction to the LACSD IW Section with emphasis on case study CWT. The case study is US Ecology Vernon, Inc. located in City of Vernon. The facility is (Subcategory D Multiple Wastestreams) that specializes in treatment of metal bearing wastes and organic wastes that contain residual oily wastewaters. Facility is also a Resource Conservation and Recovery Act (RCRA) Part B hazardous waste

treatment, storage, and disposal facility (TSDF). Participants will be exposed to the overview of a comprehensive LACSD field compliance inspection that is broken into 6 areas: manufacturing & production, wastewater generating operations, pretreatment equipment, monitoring outfalls & field sampling, chemical & hazardous waste storage, and reviewing onsite records. Participants will be able to learn how to prepare for a CWT field inspection, review case study's permit requirements specific to the site, sampling requirements, & records review in accordance with permit requirements. Participants will be able to gain invaluable knowledge of case study's flow sources, pretreatment technology, permit required records, and control authority's recommendations for possible application to participants' agencies.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Enhance participants knowledge on centralized waste treatment case study while addressing LACSD inspection and sampling methodology for local control authority.
- Apply and examine LACSD IW field inspection observations, concerns, & recommendations.
- Appreciate LACSD Industrial Waste Pretreatment and Source Control Program case specific field inspection for centralized waste treatment facility.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1



Primary Speaker: David Joh, Industrial Waste Inspector, Los Angeles County Sanitation Districts

David Joh has approximately 14.5 years of water quality experience including a laboratory internship with the Metropolitan Water District of Southern California and laboratory work with the Orange County Sanitation District. With the Sanitation Districts of Los Angeles County, David has 9.5 years of experience in the Technical Services Department (Laboratory Section Technician and Water Quality Section Engineering Technician), and Wastewater Management Department/Industrial Waste Section (Industrial Waste Inspector). David offers a robust amount of experience with conducting day and night inspections and administering source control policies and programs with the diverse range of industrial users within Los Angeles County.

3:50 pm - 4:40 pm

Pretreatment of Microbrewery Waste Streams

This workshop will provide pretreatment staff with information to inspect and monitor microbrewery treatment technologies and outcomes. During this session, these technologies will be presented and discussed along with interactive activities associated with the technologies. The workshop will provide participants with a working knowledge of treatment technologies and waste streams associated with microbreweries.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Outline inspection processes associated with microbreweries.
- Describe brewing processes.
- List wastewater contaminants and identify monitoring parameters associated with microbreweries.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1



Primary Speaker: John Rowe, Process Engineer, Office of Water Programs at Sacramento State

John Rowe is a Process Engineer in the Office of Water Programs at California State University at Sacramento. He was a tenured professor of water resources at a college in Florida, and has also taught microbiology, environmental science, biology, and water resource treatment technology. He has a PhD in environmental sustainability, and an A level water and wastewater treatment operator license in Florida. John has worked as a project manager for CH2MHill, and as a technical assistance provider and trainer for the Rural Water Association.

1:50 pm - 4:40 pm

PFAS Unmasked (Afternoon)

Room: Int'l III, IV & V



Session Chair: Lori McKinley, Senior Environmental Specialist, OCSD

Lori McKinley is a Senior Environmental Specialist in the Industrial Source Control Section of the Resource Protection Division at the Orange County Sanitation District, and is a Board-Certified Environmental Scientist with the American Academy of Environmental Engineers and Scientists (AAEES). After post-graduate work at the Uppsala Limnology Institute, she began her environmental career as a water quality analyst with Länsstyrelsen in Östersund, Sweden, followed by serving as Senior Analyst in the OCSD laboratory for 25 years, where her work included the analyses of a variety of matrices for chlorinated pesticides and PCB congeners. Lori holds a Bachelor of Science degree in Biology from California State Polytechnic University, Pomona.

1:50 pm - 2:40 pm

California Water Board PFAS Actions

This presentation is an update on the California Water Board's recent actions investigating and responding to PFAS levels in drinking water and non-drinking water matrices.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Describe State regulatory actions.
- Update their respective agencies on regulatory actions.

- Understand the California Water Board's most recent investigations of PFAS levels in drinking and non-drinking water matrices.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1



Primary Speaker: Annalisa Kihara, Supervising Water Resource Control Engineer, California Water Resources Control Board

Annalisa Kihara, is a Supervising Water Resource Control Engineer in the Division of Water Quality at the State Water Resources Control Board. Ms. Kihara is Chief of the Underground Storage Tank and Site Cleanup Section in the Groundwater Branch. Water Board programs within her section include the Unified Program Agency oversight; and the cleanup of Leaking Underground Storage Tanks, other non-petroleum sites, and Department of Defense sites. Ms. Kihara has been with the State Water Resources Control Board for 13 years and prior to that she worked in environmental consulting. Ms. Kihara holds a B.S. degree in Civil Engineering from the University of California, Davis, and is a registered Professional Engineer in California.

Speaker: Daniel Newton

2:50 pm - 3:40 pm

PFAS Legal Issues

The presentation will cover how PFAS impacts the wastewater industry, including sources of PFAS in wastewater and how PFAS enter the environment from wastewater. The presentation will also cover recent state and federal regulatory and Congressional activity regarding PFAS. The presentation will close with a discussion of PFAS litigation, with a focus on potential litigation involving the wastewater industry.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Navigate the complexities of PFAS regulation.
- Foresee potential PFAS-related litigation as both plaintiff and defendant.
- Evaluate potential risks to their organization from PFAS.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1



Primary Speaker: Nancy Wilms, Partner, Edgcomb Law

Nancy, a partner at Edgcomb Law Group, has over 30 years of environmental counseling, litigation and enforcement experience. Nancy has developed a particular focus on representing public entity clients in high-profile wastewater collection and treatment system Clean Water Act litigation against coalitions of federal and state regulators and non-governmental organizations. In addition, she has extensive experience handling groundwater contamination cases brought by entities seeking damages and injunctive relief under both federal and state law theories. Edgcomb Law Group offers cost effective representation by highly skilled and experienced environmental attorneys with cutting edge expertise in all aspects of environmental law.

Speaker: Tiffany Hedgpeth, Partner, Edgcomb Law Group

Tiffany Hedgpeth focuses her practice on environmental litigation and compliance counseling relating to contaminated soil, sediment, groundwater and surface water as well as sewage spills and other discharges. Many of her matters have involved contaminants of emerging concern in the context of products liability claims, common law tort theories and state and federal statutory liability for contaminated sites. She has been practicing environmental law for 25 years.

3:50 pm - 4:40 pm

PFAS Public Messaging

Attendees will learn how to identify audiences, develop key messages as well as the types of outreach programs to be implemented during a public messaging campaign.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Identify the different types of communication programs and what tools should be used for each situation.
- Develop key messages and how to incorporate them into your conversations.
- Identify your audiences and what you can do to best prepare them for an outreach campaign.

CWEA Contact Hours: 1

Primary Speaker: Rebecca Long, Senior Public Affairs Specialist , Orange County Sanitation Districts



Rebecca Long is PR professional with more than 19 years of experience specializing in legislative/government affairs, community outreach, crisis management, grants, copywriting, brand management, project management, media, and public speaking. Throughout my career, I have had the opportunity to hone my skills. A few of my accomplishments include: • Receiving more than \$2 million in grants for OCSA. • Event management including hosting more than 100 distinguished guests for the OCSA State of the District. • Crisis management including handling communication of contaminated water wells and the September 11th disaster. • Passing of legislative bill AB 2022, allowing for the taste-testing of GWRS water. • Legislative advocacy including multiple tours of the Sanitation District and lobby days in Sacramento and D.C. • Hosting multiple

public meetings and open houses. Effectively communicating the need for a water rate increase. • Serving as the writer and project manager for the creation of the Sanitation District's Annual Report. • Editor and writer for OCSD's internal newsletter. • Managed and coordinated the largest water education festival in the nation for OCWD. • Website content management.

1:50 pm - 4:40 pm

Public Outreach and Communication

Room: Int'l I & II

Session Chair: Wendy Wert, Environmental Engineer, CWEA Vice President, Sanitation Districts of Los Angeles County



Wendy Wert, P.E., BCEE is a Board-Certified Environmental Engineer with the Sanitation Districts. For the past 20 years she has been working on programs that rely on public participation to integrate water supply, water reuse with wastewater facilities planning. She received a B.S in Environmental Engineering and an M.S. in Water Resources Engineering from the University of Central Florida (UCF). Her studies gave her opportunities to collaborate with others. It was during this time that Wendy developed an interest in effectively communicating math and science to diverse groups. Today, she uses her position as an engineer to support outreach and education programs that explain how the work of the Sanitation Districts identifies community needs then applies engineering and scientific principles to meet them.

1:50 pm - 2:15 pm

A Legacy of Supporting Groundwater Recharge

Operational since January 2008, the Groundwater Replenishment System (GWRS) is a state-of-the-art water purification project that can produce up to 100 million gallons (379,000 cubic meters) of high-quality water every day. This is enough water to meet the needs of nearly 850,000 residents in north and central Orange County, California. This session will discuss: (1) the community engagement that led to the world's largest advanced water purification system for potable reuse; (2) the resilient partnership between the Orange County Water District (OCWD) and the Orange County Sanitation District (OCSD) that supports the GWRS; and (3) how these two public agencies have successfully worked together for more than 40 years. They are leading the way in water recycling and providing a locally-controlled, drought-proof and reliable supply of high-quality water in an environmentally sensitive and economical manner. In commemoration of the GWRS 10th anniversary, OCWD and OCSD set The Guinness World Records™ title for the most wastewater recycled to drinking water in 24 hours.

CWEA Contact Hours: .5

SWRCB Wastewater CEUs: 0.05



Primary Speaker: Jennifer Cabral, Administration Manager (Public Affairs), Orange County Sanitation Districts

Jennifer Cabral is a Public Affairs Supervisor at Orange County Sanitation District in Fountain Valley, CA, where she oversees a team responsible for crisis management, public affairs, government partnering, and communications. She received a Master of Public Administration (MPA) focused in Public Administration and Public Policy from California State University-Long Beach.



Speaker: Gina Ayala, Orange County Water District

Gina Ayala is a Principal Communications Specialist at Orange County Water District, where she designs and executes effective communication strategies and tactics for OCWD. She received her B.S. in Public Administration from the University of Southern California (USC) and her M.S. in Communication Management from USC. Gina also received Public Relations certification from UCLA.

2:15 pm - 2:40 pm

Setting the Standard for Public Support of Recycling through Advanced Water Treatment (Orange County Water District)

Operational since January 2008, the Groundwater Replenishment System (GWRS) is a state-of-the-art water purification project that can produce up to 100 million gallons (379,000 cubic meters) of high-quality water every day. This is enough water to meet the needs of nearly 850,000 residents in north and central Orange County, California. This session will discuss: (1) the community engagement that led to the world's largest advanced water purification system for potable reuse; (2) the resilient partnership between the Orange County Water District (OCWD) and the Orange County Sanitation District (OCSD) that supports the GWRS; and (3) how these two public agencies have successfully worked together for more than 40 years. They are leading the way in water recycling and providing a locally-controlled, drought-proof and reliable supply of high-quality water in an environmentally sensitive and economical manner. In commemoration of the GWRS 10th anniversary, OCWD and OCSD set The Guinness World Records™ title for the most wastewater recycled to drinking water in 24 hours.

CWEA Contact Hours: .5

SWRCB Wastewater CEUs: 0.05



Primary Speaker: Gina Ayala, Orange County Water District

Gina Ayala is a Principal Communications Specialist at Orange County Water District, where she designs and executes effective communication strategies and tactics for OCWD. She received her B.S. in Public Administration from the University of Southern California (USC) and her M.S. in Communication Management from USC. Gina also received Public Relations certification from UCLA.

2:50 pm - 3:15 pm

Carriage Crest Park

This session will discuss: (1) the opportunities to use LACSD's sewer system to meet stormwater capture goals in compliance with a municipal or industrial stormwater permit and/or create additional reclaimed water supplies; (2) the challenges and considerations to be evaluated in the planning process for a sanitary sewer diversion; and (3) the evaluation and approval process to incorporate a sanitary sewer diversion into a stormwater project. As an example of what can be accomplished when the wastewater engineers apply their knowledge to stormwater projects, the presentation will also highlight the innovative features of the Carriage Crest Stormwater project that was developed by the Sanitation Districts for the City of Carson.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Recognize the types of projects that would benefit from a sewer diversion in terms of additional stormwater capture volume and/or additional recycled water supply.
- Identify reasonable expectations for the capability of LACSD's sanitary sewer system to accept stormwater.
- Formulate a plan for incorporating a sewer diversion into a stormwater project.

CWEA Contact Hours: .5



Primary Speaker: Kristen Ruffell, Division Engineer II, Sanitation Districts of Los Angeles County

Kristen Ruffell, PE is a Division Engineer for the Los Angeles County Sanitation Districts in Whittier, CA, where she manages the Water Quality Section. She received a bachelor's degree in Civil Engineering from Cal Poly, San Luis Obispo and a master's degree in Environmental Engineering from the University of Illinois at Urbana-Champaign. Kristen is a registered professional engineer in California and has 20 years of experience implementing wastewater, solid waste and stormwater projects. Kristen is responsible for the implementation of Senate Bill 485, which provided the Sanitation Districts new authority to assist municipalities with stormwater compliance projects.

3:15 pm - 3:40 pm

Conservation and Community Engagement Bixby Marshland (PIO Sanitation Districts LA County)

This session will discuss: (1) the benefits of wetlands such as habitat, water quality, ground water recharge, flood protection, and carbon sequestration; (2) the challenges such as permitting, financing and maintaining these resources; and (3) the community engagement opportunities the Sanitation Districts Bixby Marshland provides. As an example of what can be accomplished when wastewater engineers apply their knowledge to restoration projects, the presentation will also highlight creative features the Bixby Marshland that are engaging the communities we serve.

CWEA Contact Hours: .5



Primary Speaker: Wendy Wert, Environmental Engineer, CWEA Vice President, Sanitation Districts of Los Angeles County

Wendy Wert, P.E., BCEE is a Board-Certified Environmental Engineer with the Sanitation Districts. For the past 20 years she has been working on programs that rely on public participation to integrate water supply, water reuse with wastewater facilities planning. She received a B.S in Environmental Engineering and an M.S. in Water Resources Engineering from the University of Central Florida (UCF). Her studies gave her opportunities to collaborate with others. It was during this time that Wendy developed an interest in effectively communicating math and science to diverse groups. Today, she uses her position as an engineer to support outreach and education programs that explain how the work of the Sanitation Districts identifies community needs then applies engineering and scientific principles to meet them.

3:50 pm - 4:15 pm

Protecting Local Waterways by Addressing Aging Infrastructure (The Clearwater Program)

Under the Clearwater Project, a new 7-mile tunnel will be built from the Sanitation Districts' largest wastewater treatment plant to existing ocean outfalls located at Royal Palms Beach in San Pedro. The new tunnel, which will be built using a tunnel boring machine, will be almost entirely underneath public rights-of-way (streets). Construction began in 2019 in Carson and will finish in 2026 at Royal Palms Beach. This session will discuss (1) the need to develop extensive community outreach programs for large infrastructure projects to garner public support; (2) the integration of the outreach program into the project from the outset; and (3) the challenges and considerations that led the Sanitation Districts to hold over 550 meetings with community, environmental and business groups that ranged from one-on-one meetings to full workshops. We will also discuss the use of social media, a dedicated website, a 24-hour hotline, newsletters, presentations and videos to inform the public about the critical need for the project. The input from this outreach helped shape the project, which has resulted in support from community leaders from the project's onset to the current construction phase. Our outreach program will continue through completion of the Clearwater Project.

CWEA Contact Hours: .5

SWRCB Wastewater CEUs: 0.05



Primary Speaker: Basil Hewitt, Public Information Supervisor, Sanitation Districts of Los Angeles County

Basil Hewitt is a Supervising Engineer in the Public Information Office of the Sanitation Districts of Los Angeles County. He has a Civil Engineering Degree from Rutgers University and a Masters in Civil and Environmental Engineering from Loyola Marymount University. His experience ranges from preparing environmental documents to public outreach and communicating with the media.



Speaker: Glenn Acosta, Senior Engineer, Sanitation Districts of Los Angeles County

Glenn Acosta is a Senior Engineer in the Public Information Office of the Sanitation Districts of Los Angeles County. Over the last 20 years, Glenn has represented the agency on regulatory and legislative affairs, served as an operations engineer at the Districts' largest wastewater treatment plant, and has overseen planning for landfills and solid waste facilities. Glenn is currently the lead public information officer for the Clearwater Project and is featured in a "Persons of Infrastructure" article. He holds a Master's degree in Civil Engineering from the University of California, Irvine.

4:15 pm - 4:40 pm

Working Towards a Monumental Recycled Water Program (The Regional Recycled Water Program)

A key element of any successful water reuse project is public acceptance of the source of water. The Metropolitan Water District of Southern California faces a monumental opportunity as it begins an outreach effort for a Regional Recycled Water Program that could provide a new water supply for its diverse, six-county service area.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Recognize the role and importance of outreach in a recycled water program.
- Evaluate stakeholders and audiences whose support is needed to implement a recycled water program.
- Identify communication and outreach strategies to engage these stakeholders and audiences.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.05



Primary Speaker: Rupam Soni, Principal Public Affairs Representative, Metropolitan Water District

Rupam Soni is a Principal Public Affairs Representative with the Metropolitan Water District of Southern California. She works in the External Affairs Group, where she is responsible for community relations and engagement for a number of Metropolitan's facilities and infrastructure projects, including the Regional Recycled Water Program. Rupam has over 20 years of work experience in the water and wastewater industries. She has a B.S. from UCLA and a M.S. from UC Berkeley.

Speaker: Carolyn Schaffer, Manager, Member Services and Public Outreach, Metropolitan Water District of Southern California

6:30 pm – 10:00 pm

P3S Signature Event - Aquarium

Room: Aquarium of the Pacific, Long Beach

6:45 pm - 7:35 pm

Sustainability & Resilience at the Aquarium of the Pacific

Please join us for a lively evening including networking, socializing and indulging in food, libations, and music while immersed in the beautiful and educational aquarium exhibits. Begin with a presentation by Jenny Lentz, Ph.D., LEED® Green Associate™ on Sustainability & Resilience at the Aquarium of the Pacific. Opportunity to visit the brand-new Pacific Visions theater and Earn 1 CWEA Contact Hour. Be enchanted by music provided by DJ Manny C while appetizers and light dinners will be provided, with cash bars available for drinks. Experience the groundbreaking interactive Ocean Science Center and other visually stimulating exhibits without the crowds!

CWEA Contact Hours: 1

Primary Speaker: Jennifer Lentz, Education Coordinator for Climate Resilient & Community Science Programs, Aquarium of the Pacific



Dr. Lentz has strong background in climate resilience and sustainability measures with 17 years of professional and academic experience working across disciplines and departments to promote multi-benefit, actionable solutions. She specializes in effectively communicating scientific information in ways that are not only directly relatable and relevant to the audience but also inspire and empower action. For the last 7 years, she has worked at the Aquarium of the Pacific using GIS and citizen/community science to develop interactive ways to connect people of all ages to the ecology of the surrounding world, to create environmentally aware and engaged communities. She was one of the lead authors of the 2015 report commissioned by Mayor Garcia advising him on how to make Long Beach the model of a climate resilient city. Following this report, she developed successful climate resilient community outreach and social media programs, and has been working closely with the City of Long Beach on their Climate Action and

Adaptation Plan (CAAP) and sustainability measures, and participating in the LA "Our County" Sustainability workshops. This past February, the Director of LA County's department of Regional Planning appointed Dr. Lentz to serve a 3-year term on the Sensitive Ecological Areas Technical Advisory Committee (SEATAC). Last Fall, Dr. Lentz was appointed to the Association of Energy Engineers Southern California (AEE SoCal) chapter's Board of Directors and made the Co-Chair of their Sustainability Committee. Dr. Lentz is also a member of the U.S. Green Building Council (USGBC), the Los Angeles Regional Collaborative (LARC) for Climate Action and Sustainability, and the 2021 National Adaptation Forum Planning Committee's Equity & Climate Justice Working Group.

Wednesday, January 29, 2020

8:30 am - 11:20 am

Blue Prints to Success: ECI Exam Test Prep (Morning)

Room: Pacific

Session Chair: Shannon Simmers, Regulatory Compliance Officer, City of Redlands



Shannon Simmers, Regulatory Compliance Officer for the City of Redlands, CA is responsible for the Pretreatment Program and other regulatory requirements for the City's WWTP, collections system and stormwater requirements to name a few. She has worked in the Environmental Compliance Field since 2014. Prior to that she worked in the production industry where she held positions as a Final Inspector, Quality Control Technician and a Quality Assurance Lab Technician. She possesses an ECI grade 2, QISP, a Wastewater Operator Grade 2, a Water Treatment Operator Grade 1, and a Distribution Operator Grade 1 and has an Associates Science degree in Water Supply Technology. She is the Current P3S Executive Committee Past Chair and the TCP Training Liaison. She is involved in several projects with the CWEA and other organizations such as TCP Train the Trainer program and the CSUS PFI Update Subcommittee. She is also a Subject Matter Expert for the ECI exam and was involved with the recent ECI exam re-validation and revisions to the ECI Study guides.

8:30 am - 8:55 am

PFI Update

Leading CSU education staff will provide a brief update on the Pretreatment Facility Inspection (PFI) Manual revision before we lead into our ECI Exam Test Prep Sessions. This is the tool that many of us use to prepare for the EC exams, for on the job training and as an everyday reference. A team of P3S members worked side by side with CSU as we reviewed each page of the fondly referred-to "Ken Kerry Manual." The book has been improved up to today's standards and given a "college text book" functionality. Although none of the content was shortened, the book is slimmer and easier to read with the goal of a constant narrative. We are excited to see what CSU has brought to the table so please join us at the unveiling of your new PFI manual.

CWEA Contact Hours: .5

SWRCB Wastewater CEUs: 0



Primary Speaker: John Rowe, Process Engineer, Office of Water Programs at Sacramento State

John Rowe is a Process Engineer in the Office of Water Programs at California State University at Sacramento. He was a tenured professor of water resources at a college in Florida, and has also taught microbiology, environmental science, biology, and water resource treatment technology. He has a PhD in environmental sustainability, and an A level water and wastewater treatment operator license in Florida. John has worked as a project manager for CH2MHill, and as a technical assistance provider and trainer for the Rural Water Association.

8:55 am - 9:20 am

Grade 1 ECI Test Prep

The Environmental Compliance Exam has a new ally: the ECI Exam Blue Prints! They are a concentrated version of the former study guides that provide details and references about the exam for a more focused study tool. Join the CWEA Training Team as they open the door to this Knowledge Skills and Ability style training designed to provide insight into the type of content that can be expected on the exam which includes an extensive math review. This new style of training will not only include the more challenging KSA's and math questions for each grade level, but will also outline how to utilize the newly published ECI Exam Blue Prints to dissect any of the other KSA's one might find challenging. The CWEA Training Team will cover each grade level throughout the day so attendees are invited to drop by for the grade level needed or attend all sessions to get the most out of the training.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Describe the more challenging KSA's in preparation of the ECI exam.
- Utilize the ECI Exam Blue Prints to continue preparing for the ECI exam.
- Increase professional knowledge to apply in the workplace.

CWEA Contact Hours: .5

SWRCB Wastewater CEUs: 0

Primary Speaker: Shannon Simmers, Regulatory Compliance Officer, City of Redlands



Shannon Simmers, Regulatory Compliance Officer for the City of Redlands, CA is responsible for the Pretreatment Program and other regulatory requirements for the City's WWTP, collections system and stormwater requirements to name a few. She has worked in the Environmental Compliance Field since 2014. Prior to that she worked in the production industry where she held positions as a Final Inspector, Quality Control Technician and a Quality Assurance Lab Technician. She possesses an ECI grade 2, QISP, a Wastewater Operator Grade 2, a Water Treatment Operator Grade 1, and a Distribution Operator Grade 1 and has an Associates Science degree in Water Supply Technology. She is the Current P3S Executive Committee Past Chair and the TCP Training Liaison. She is involved in several projects with the CWEA and other organizations such as TCP Train the

Trainer program and the CSUS PFI Update Subcommittee. She is also a Subject Matter Expert for the ECI exam and was involved with the recent ECI exam re-validation and revisions to the ECI Study guides.

Speaker: Ramzi Mahmood, Professor and Director, California State University, Sacramento



Dr. Mahmood has been the director of Office of Water Programs (OWP) at Sacramento State since 1997. OWP is a multidisciplinary center providing training, technical assistance, and applied research services for water resources and water quality disciplines. Its mission is to provide cost-effective solutions for protecting and enhancing water resources, public health, and the environment. For over 40 years, OWP training materials have supported the drinking water and wastewater professions, earning it an international reputation as a leader in this field. OWP serves as the US EPA Region 9 Environmental Finance Center (EFC) which supports rural, disadvantaged, and tribal communities throughout the west in financial planning and utilities asset management. He has a faculty of civil engineering at Sacramento State since 1994. He has doctorate and master's degrees in environmental engineering, a master's degree in applied mathematics, and bachelor's degree in Civil Engineering.

Speaker: George Munoz, Senior Environmental Compliance Inspector, City of Riverside

In 1999, I started work as an Environmental Consultant inspecting commercial, industrial, and residential facilities across the United States for lead based paint, asbestos, and mold. During my time as a consultant, I began teaching courses for EPA Region 9. In 2007, I joined the City of Riverside Environmental Compliance Team where we continually are learning to adapt to the constant ever-changing industry.

Speaker: Latif Laari, Victor Valley Wastewater Reclamation Authority

Speaker: Kent McIntosh, retired, Sanitation Districts of Los Angeles County

Kent O. McIntosh holds CWEA certification as an Environmental Compliance Inspector, Grade 4, and as an Industrial Waste Treatment Plant Operator, Grade 1, and he recently retired from the Los Angeles County Sanitation Districts after more than 31 years, the first three as a laboratory technician, then as an industrial-waste inspector. He was the senior inspector for the full-time night-shift team of five. He has a bachelor of science degree in civil engineering and in applied mathematics and a bachelor of arts degree in biology and in German. For the past eight years, he has volunteered as a moderator for the CWEA ECI certification test-preparation sessions.

9:30 am - 10:20 am

Grade 2 ECI Test Prep

The Environmental Compliance Exam has a new ally: the ECI Exam Blue Prints! They are a concentrated version of the former study guides that provide details and references about the exam for a more focused study tool. Join the CWEA Training Team as they open the door to this Knowledge Skills and Ability style training designed to provide insight into the type of content that can be expected on the exam which includes an extensive math review. This new style of training will not only include the more challenging KSA's and math questions for each grade level, but will also outline how to utilize the newly published ECI Exam Blue Prints to dissect any of the other KSA's one might find challenging. The CWEA Training Team will cover each grade level throughout the day so attendees are invited to drop by for the grade level needed or attend all sessions to get the most out of the training.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Describe the more challenging KSA's in preparation of the ECI exam.
- Utilize the ECI Exam Blue Prints to continue preparing for the ECI exam.
- Increase professional knowledge to apply in the workplace.

CWEA Contact Hours: 1

Primary Speaker: George Munoz, Senior Environmental Compliance Inspector, City of Riverside

In 1999, I started work as an Environmental Consultant inspecting commercial, industrial, and residential facilities across the United States for lead based paint, asbestos, and mold. During my time as a consultant, I began teaching courses for EPA Region 9. In 2007, I joined the City of Riverside Environmental Compliance Team where we continually are learning to adapt to the constant ever-changing industry.

10:30 am - 11:20 am

Grade 3 ECI Test Prep

The Environmental Compliance Exam has a new ally: the ECI Exam Blue Prints! They are a concentrated version of the former study guides that provide details and references about the exam for a more focused study tool. Join the CWEA Training Team as they open the door to this Knowledge Skills and Ability style training designed to provide insight into the type of content that can be expected on the exam which includes an extensive math review. This new style of training will not only include the more challenging KSA's and math questions for each grade level, but will also outline how to utilize the newly published ECI Exam Blue Prints to dissect any of the other KSA's one might find challenging. The CWEA Training Team will cover each grade level throughout the day so attendees are invited to drop by for the grade level needed or attend all sessions to get the most out of the training.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Describe the more challenging KSA's in preparation of the ECI exam.
- Utilize the ECI Exam Blue Prints to continue preparing for the ECI exam.
- Increase professional knowledge to apply in the workplace.

CWEA Contact Hours: 1

Primary Speaker: Latif Laari, Victor Valley Wastewater Reclamation Authority

8:30 am - 11:20 am

EPA Training (Morning)

Room: Int'l III, IV & V



Session Chair: Amelia Whitson, Pretreatment Coordinator, US EPA Region 9

Amelia Whitson is a Physical Scientist in the EPA's Pacific Southwest Regional Office (Region 9) in San Francisco. She has worked in Region 9's NPDES Permit Office for ten years, writing NPDES permits, providing technical permitting support to state environmental agencies, and serving as the Region 9 Pretreatment Coordinator. As Pretreatment Coordinator, she is responsible for managing the EPA's oversight of industrial wastewater pretreatment in Arizona, California, Hawaii, Nevada, and the Pacific Island Territories. Amelia holds a B.A. in Environmental Earth Science from the University of California, Berkeley.

Session Chair: Chuck Durham, Director of Pretreatment Services, PG Environmental



Director of Pretreatment Services Chuck Durham is a Principal Engineer and the Director of Pretreatment Services at PG Environmental. Mr. Durham has three decades of experience, he is a recognized expert in water pollution control regulations, with emphasis on the federal pretreatment program. In various projects supporting 8 EPA regions and 25 states, he has provided the full spectrum of support to develop, implement, streamline, and measure the effectiveness of pretreatment programs. He has conducted more than 600 audits and PCIs, and more than 2,000 industrial inspections, at facilities across the U.S. In addition, he has developed and taught numerous basic and advanced training programs/webinars at local, state, and federal levels. Prior to entering the consulting field in 2001, Mr. Durham served as a Program Manager for the Tennessee Division of Water Pollution Control. Mr. Durham is the Chair of the KY-TN Water Environment Associations' Pretreatment Certification Committee.

8:30 am - 9:20 am

Introduction and Overview of EPA Pretreatment Regulations

An introduction to the pretreatment program, the applicable regulations, and how these regulations impact States, POTWs, and Industry. In addition, an update on pretreatment-related guidance, regulations, and training currently on EPA's calendar.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Contribute knowledgeably to your local pretreatment program.
- Compare and correlate the goals of pretreatment at the local, state, and federal levels.
- Implement federal requirements to regulate dental discharges.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1



Primary Speaker: Amelia Whitson, Pretreatment Coordinator, US EPA Region 9

Amelia Whitson is a Physical Scientist in the EPA's Pacific Southwest Regional Office (Region 9) in San Francisco. She has worked in Region 9's NPDES Permit Office for ten years, writing NPDES permits, providing technical permitting support to state environmental agencies, and serving as the Region 9 Pretreatment Coordinator. As Pretreatment Coordinator, she is responsible for managing the EPA's oversight of industrial wastewater pretreatment in Arizona, California, Hawaii, Nevada, and the Pacific Island Territories. Amelia holds a B.A. in Environmental Earth Science from the University of California, Berkeley.

9:30 am - 10:20 am

Pretreatment Standards: Prohibitions and Local Limits

Presenter will define local limits, and take the audience through the process of how these numbers are derived. Discussion will include actual data vs. literature data, allocation methods, and what needs to be included in a local limits submittal.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Develop new local limits.
- Evaluate when and how local limits need to be updated.
- Implement general prohibitions, specific prohibitions, and local limits in their service area.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1



Primary Speaker: Amelia Whitson, Pretreatment Coordinator, US EPA Region 9

Amelia Whitson is a Physical Scientist in the EPA's Pacific Southwest Regional Office (Region 9) in San Francisco. She has worked in Region 9's NPDES Permit Office for ten years, writing NPDES permits, providing technical permitting support to state environmental agencies, and serving as the Region 9 Pretreatment Coordinator. As Pretreatment Coordinator, she is responsible for managing the EPA's oversight of industrial wastewater pretreatment in Arizona, California, Hawaii, Nevada, and the Pacific Island Territories. Amelia holds a B.A. in Environmental Earth Science from the University of California, Berkeley.

10:30 am - 11:20 am

Pretreatment Standards: PCI / PCA Information and Updates

Presenter will give a detailed description of the process and content for Pretreatment Compliance Inspections (PCIs) and Audits (PCAs). Discussion will address the standards and procedures that EPA, States, and Contractors use when conducting these PCIs and PCAs, and will also include common findings.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Classify categorical industrial users.
- Apply categorical standards in industrial user permits.
- Make the most of a Pretreatment Compliance Audit or Inspection.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1



Primary Speaker: Amelia Whitson, Pretreatment Coordinator, US EPA Region 9

Amelia Whitson is a Physical Scientist in the EPA's Pacific Southwest Regional Office (Region 9) in San Francisco. She has worked in Region 9's NPDES Permit Office for ten years, writing NPDES permits, providing technical permitting support to state environmental agencies, and serving as the Region 9 Pretreatment Coordinator. As Pretreatment Coordinator, she is responsible for managing the EPA's oversight of industrial wastewater pretreatment in Arizona, California, Hawaii, Nevada, and the Pacific Island Territories. Amelia holds a B.A. in Environmental Earth Science from the University of California, Berkeley.



Speaker: Jim Polek, Environmental Engineer, U.S. Environmental Protection Agency

Jim is an Environmental Engineer in EPA's Pacific Southwest Regional Office (Region 9) in San Francisco. He has worked in the NPDES Wastewater Enforcement Office for seven years, conducting inspections of, providing compliance assistance to, and managing enforcement actions against industrial users and municipalities, with a focus on pretreatment. Prior to his NPDES Pretreatment work, he was an EPA hazardous waste inspector for nine years. Jim holds a B.S. in Mineral Engineering and an M.S. in Environmental Engineering from the University of California, Berkeley.

8:30 am - 11:20 am

FOG (Morning)

Room: Catalina

Session Chair: Mary Morse, City of San Jose



Session Chair: Eric Nielsen, District Engineer, South Pacer MUD

9:30 am - 9:55 am

Creating Effective In-House Training Videos

So, are you ready to take the plunge and start creating your own training videos in-house? There are so many options when it comes to video production and with equipment costs now so low, should you be producing your videos in-house?

Learning Objective(s):

After participating in this session, attendees will be able to:

- Upon completion, participants will be able to create you our own videos quickly and at low cost, with full control of the creation cost and distribution.
- Upon completion, participants will be able to Identify critical tasks successfully completed each day at work that could be recorded for training purposes.
- Upon completion, participants will learn components of Video Development Project Management.

CWEA Contact Hours: .5

SWRCB Wastewater CEUs: 0

Primary Speaker: Theodore Higgins, Chief Environmental Compliance Inspector I, City of Los Angeles/ LA Sanitation/ Industrial Waste Management Division



Theodore Higgins began his career with the City of Los Angeles LA Sanitation & Environment, Industrial Waste Management Division (IWMD) as an Industrial Waste Inspector, now called Environmental Compliance Inspectors in October 2001 (18yrs). He currently works as a Chief Environmental Compliance Inspector in IWMD's Fats, Oil & Grease (FOG) Inspection Group. He is responsible for managing an inspection program with an inventory of nearly 10,000 food service establishments (FSEs). As a newly hired inspector was part of the implementation of the Fats Oils & Grease (FOG) program. Has worked in other inspection groups with IWMD including: Significant Industrial Users Inspection Group (SIU) regulating some of the largest companies in Los Angeles including Pharmaceutical Manufacturers, Food Processors, Metal Finishers, Etc. Local Industrial Users (LIU) such as Car Washes, Industrial Laundries, Food Processors, Etc. After promoting to Senior Environmental Compliance Inspector, he worked in the Significant Industrial Users group and LASAN's new RECYCLA Program. In 2017 was promoted to Chief Environmental Compliance Inspector.

Current and past city activities and recognition: • Serves the division as a “Sector Champion” for the Car Wash Industry where his role is to maintain collaborative partnerships with the Car Wash Business Sector to strategize how to make businesses grow and become more sustainable. • Represented IWMD by participating in a national focus group on Micro beads/Micro plastics Pollution with the Nation Pollution Prevention Roundtable. • IWMD Employee Excellence Award 2012 • Emerging Leader recognition by the California Water Environment Association 2018 • Pretreatment, Pollution Prevention & Stormwater (P3S) Person of the Year Award by the LA Basin Section of the CWEA 2019 • Represents LASAN on the SCAQMD Environmental Justice Inter-Agency Task Force Theodore holds Bachelor of Arts (B.A.) degree from Woodbury University.

9:55 am - 10:20 am

FOG 101: How to Inspect Grease Interceptors/Traps

CWEA Contact Hours: .5

SWRCB Wastewater CEUs: 0.05

Primary Speaker: Theodore Higgins, Chief Environmental Compliance Inspector I, City of Los Angeles/ LA Sanitation/ Industrial Waste Management Division



Theodore Higgins began his career with the City of Los Angeles LA Sanitation & Environment, Industrial Waste Management Division (IWMD) as an Industrial Waste Inspector, now called Environmental Compliance Inspectors in October 2001 (18yrs). He currently works as a Chief Environmental Compliance Inspector in IWMD’s Fats, Oil & Grease (FOG) Inspection Group. He is responsible for managing an inspection program with an inventory of nearly 10,000 food service establishments (FSEs). As a newly hired inspector was part of the implementation of the Fats Oils & Grease (FOG) program. Has worked in other inspection groups with IWMD including: Significant Industrial Users Inspection Group (SIU) regulating some of the largest companies in Los Angeles including Pharmaceutical Manufacturers, Food Processors, Metal Finishers, Etc. Local Industrial Users (LIU) such as Car Washes, Industrial Laundries, Food Processors, Etc. After promoting to Senior Environmental Compliance Inspector, he worked in the Significant Industrial Users group and LASAN’s new RECYCLA Program. In 2017 was promoted to Chief Environmental Compliance Inspector. Current and past city activities and recognition: • Serves the division as a “Sector Champion” for the Car Wash Industry where his role is to maintain collaborative partnerships with the Car Wash Business Sector to strategize how to make businesses grow and become more sustainable. • Represented IWMD by participating in a national focus group on Micro beads/Micro plastics Pollution with the Nation Pollution Prevention Roundtable. • IWMD Employee Excellence Award 2012 • Emerging Leader recognition by the California Water Environment Association 2018 • Pretreatment, Pollution Prevention & Stormwater (P3S) Person of the Year Award by the LA Basin Section of the CWEA 2019 • Represents LASAN on the SCAQMD Environmental Justice Inter-Agency Task Force Theodore holds Bachelor of Arts (B.A.) degree from Woodbury University.

Speaker: Mary Morse, City of San Jose

8:30 am - 9:20 am

FOG Program Overview: LA Sanitation

At the heart of most effective FOG programs is the implementation of a facility inspection and enforcement program. This presentation will provide continuing education in understating various FOG concerns. We intend to share solutions and exchange ideas for common problems agencies face when it comes to regulating food service establishments.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Describe some of the new challenges associated with a large FOG Control Program.
- Identify solutions and exchange ideas for common problems agencies face when it comes to regulating food service establishments.
- Share how to balance the ability to enforce regulations while cultivating a business-friendly environment.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1

Primary Speaker: Theodore Higgins, Chief Environmental Compliance Inspector I, City of Los Angeles/ LA Sanitation/ Industrial Waste Management Division



Theodore Higgins began his career with the City of Los Angeles LA Sanitation & Environment, Industrial Waste Management Division (IWMD) as an Industrial Waste Inspector, now called Environmental Compliance Inspectors in October 2001 (18yrs). He currently works as a Chief Environmental Compliance Inspector in IWMD's Fats, Oil & Grease (FOG) Inspection Group. He is responsible for managing an inspection program with an inventory of nearly 10,000 food service establishments (FSEs). As a newly hired inspector was part of the implementation of the Fats Oils & Grease (FOG) program. Has worked in other inspection groups with IWMD including: Significant Industrial Users Inspection Group (SIU) regulating some of the largest companies in Los Angeles including Pharmaceutical Manufacturers, Food Processors, Metal Finishers, Etc. Local Industrial Users (LIU) such as Car Washes, Industrial Laundries, Food Processors, Etc. After promoting to Senior Environmental Compliance Inspector, he worked in the Significant Industrial Users group and LASAN's new RECYCLA Program. In 2017 was promoted to Chief Environmental Compliance Inspector. Current and past city activities and recognition: • Serves the division as a "Sector Champion" for the Car Wash Industry where his role is to maintain collaborative partnerships with the Car Wash Business Sector to strategize how to make businesses grow and become more sustainable. • Represented IWMD by participating in a national focus group on Micro beads/Micro plastics Pollution with the Nation Pollution Prevention Roundtable. • IWMD Employee Excellence Award 2012 • Emerging Leader recognition by the California Water Environment Association 2018 • Pretreatment, Pollution Prevention & Stormwater (P3S) Person of the Year Award by the LA Basin Section of the CWEA 2019 • Represents LASAN on the SCAQMD Environmental Justice Inter-Agency Task Force Theodore holds Bachelor of Arts (B.A.) degree from Woodbury University.

10:30 am - 11:20 am

SWRCB WDR Regulations

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1

8:30 am - 11:20 am

Stormwater

Room: Int'l I & II

Session Chair: Michelle Breiter, Sr. Environmental Specialist, OCSD

Michelle Breiter is the Senior Environmental Specialist at the Orange County Sanitation District. She has over 19 years of experience in the environmental field, covering compliance requirements related to air, water, stormwater, hazardous material management, hazardous waste management, emergency planning, and mitigation. Currently, Ms. Breiter manages the stormwater, fleet and mitigation program at OCSD and teaches a course on Hazardous Waste Management at a local college.

8:30 am - 9:20 am

IGP Permit Update and Client Success Story

Attendees will be provided an engaging overview of the tortuous path industrial sites have traversed since the most recent Industrial General Permit was issued and the additional challenges posed by the incorporation of TMDL-Based numeric standards into the Industrial General permit on July 1, 2020.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Upon completion, participants will have a better understanding of the intricacies and compliance challenges that industry has faced since 2015 in complying with the IGP.
- Upon completion, participants will have a better understanding of the types of BMP strategies that have provided the most benefit when attempting to comply with NALs and ERA process established in the IGP.
- Upon completion, participants will walk away with an understanding of the impacts associated with the industrial General Permit Amendments on dischargers in affected watersheds.

CWEA Contact Hours: 1

Primary Speaker: Matt Lentz, Principal and Vice President, GSI Environmental Inc.

Mr. Lentz is a Vice President and Principal with GSI Environmental and has more than 20 years of experience providing multi-media compliance support to industry, the public sector, and the legal community. A significant portion of Mr. Lentz' practice involves assisting industrial, municipal and construction industry clients comply with NPDES storm water regulations and development and implementation of their compliance programs. He has also provided support to numerous industrial dischargers faced with third-party enforcement actions related to alleged Clean Water Act noncompliance. As Co-Chair of the CASQA's Industrial Subcommittee and on behalf of clients throughout the state, he has been engaged in the review and comment process of the proposed Industrial General Permit amendments and is working with clients to come up with real world solutions to the challenges of NPDES Permit compliance.

9:30 am - 10:20 am

CGP Draft Permit Reissuance Status

State Water Board staff are proposing to reissue the statewide NPDES Construction Stormwater General Permit and will be providing an overview of proposed changes to the permit, as well as the next steps of the reissuance process.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Share information about new requirements found in the proposed statewide Construction Stormwater General Permit reissuance with clients, planners, and management.
- Identify proposed TMDL implementation requirements applicable to future construction projects covered under the proposed statewide Construction Stormwater General Permit.
- Consider how the proposed requirements may affect their project's strategy to comply with the statewide Construction Stormwater General Permit.

CWEA Contact Hours: 1



Primary Speaker: Brandon Roosenboom, Water Resource Control Engineer, State Water Board

Brandon Roosenboom, EIT, QISP is a Water Resource Control Engineer at the SWRCB. Brandon joined the Industrial and Construction Stormwater Unit in May 2018, after a year and a half stint as a consultant in the Bay Area. He earned a B.S. in Biological Systems Engineering at UC Davis and became passionate about stormwater following internships with the Yolo County Central Landfill and Cornell University. Brandon is currently working to reissue the statewide Construction Stormwater General Permit and is the lead staff for incorporating TMDL implementation requirements into the permit.

10:30 am - 11:20 am

Dry Weather Diversion Design and Action

This presentation will discuss the use and implementation of dry weather diversion systems also known as low flow diversion systems. We will cover the various regulations for these systems, the implementation of these devices, and their efficiency.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Will observe the effectiveness of dry weather diversion structures.
- better recognize the purposefulness of dry weather diversion structures.
- Acquire an appreciation of multi-agency and multi department coordination.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1



Primary Speaker: Jason Finn, Industrial Waste Inspector, LACSD

My name is Jason Finn and I am an Industrial Waste Inspector with the Sanitation Districts of Los Angeles County. I have worked for The Districts for 17 years starting out as a Lab Technician in the microbiology group. I graduated from Cal State University Long Beach with a BS degree in medical microbiology with a minor in chemistry. I have spent the last 8 years working as an Industrial Waste Inspector.

Speaker: Kimberly Garvey, Project Manager / Coastal Engineer, Moffatt & Nichol



Kim Garvey is a project manager/coastal engineer at Moffatt & Nichol. She is an engineering consultant to the City of Long Beach for the City's low flow diversion systems. Since joining Moffatt & Nichol in 2003, Ms. Garvey has worked on a variety of projects involving coastal wetlands restoration, shore protection, beach nourishment, dredging, ports, and marinas. As part of these coastal projects, she has gained experience in stormwater and low flow diversion systems. Her expertise includes coastal projects design and analysis, water and sediment quality analyses, and regulatory permitting. Prior to joining Moffatt & Nichol, Ms. Garvey was an Engineering Director at Boeing working on space systems projects. She obtained a B.S. in Mechanical Engineering from University of California Santa Barbara, a M.S. in Aeronautical/Astronautical Engineering from Purdue University, and a Coastal Engineering Certificate from Old Dominion University.

Speaker: Melissa You, Stormwater/Environmental Compliance Officer, City of Long Beach



Melissa You is the Stormwater/Environmental Compliance Officer for the City of Long Beach. She oversees the City's Stormwater Division. Ms. You earned her Bachelor's Degree in Chemical Engineering with a minor in Biomedical Engineering from the University of California, Irvine. She brings both private and public sector experience in stormwater. Before joining City of Long Beach, she worked for City of La Habra as the NPDES Program Coordinator and John L. Hunter & Associates, Inc. as an Environmental Programs Manager for various municipalities. In these positions, she was able to gain extensive knowledge of the ins and outs of stormwater by working as a consultant and now managing consultants. She has also obtained Stormwater certificates and is a registered Engineering-In-Training (EIT) in the State of California. She joined the City of Long Beach in August 2017 with over 14 years of stormwater experience in various cities throughout Los Angeles, Orange and Riverside Counties. This experience has afforded Melissa the knowledge and skillset necessary to be successful in her position at the City of Long Beach.

12:05 pm - 1:20 pm

Wednesday Lunch

Room: Int'l III, IV & V

12:05 pm - 1:20 pm

P3S Grant Recipients and Words from Incoming Chair

Speaker: Jennifer Peet, Environmental Compliance Inspector II, City of Modesto



Jennifer Peet has been an Environmental Compliance Inspector with the City of Modesto for almost 12 years. She currently holds her Grade IV ECI certification through CWEA and is the current vice-chair for the P3S Committee. In addition to being responsible for inspections, sampling events, and plan checks in both the City's pretreatment and stormwater programs, she is also responsible for providing internal training to all of the City's field crews on stormwater awareness, BMPs, and illicit discharge detection and reporting. Jennifer is also responsible for the City's public education and outreach programs for both pretreatment and stormwater and was awarded the CWEA Community Engagement and Outreach Person of the Year Award (large agency) in 2017. Jennifer was also honored to receive the CWEA P3S Person of the Year Award in 2018.



Host: Alina Constantinescu, Project Engineer, Larry Walker Associates

ALINA CONSTANTINESCU, P.E., is a Project Engineer with Larry Walker Associates with over 15 years of experience in the environmental engineering field, with a focus on wastewater permitting and regulatory compliance, development of pollution prevention and pretreatment programs, and stormwater management. Alina is an active member of the CWEA P3S Committee and chaired the 2017 CWEA P3S Conference. She is based in Berkeley, CA and is also active with the Bay Area Clean Water Agencies (BACWA). Alina started her career working in the Industrial Waste Management Division for the City of Los Angeles.

1:50 pm - 3:40 pm

Blue Prints to Success: ECI Exam Test Prep (Afternoon)

Room: Pacific

Session Chair: Shannon Simmers, Regulatory Compliance Officer, City of Redlands



Shannon Simmers, Regulatory Compliance Officer for the City of Redlands, CA is responsible for the Pretreatment Program and other regulatory requirements for the City's WWTP, collections system and stormwater requirements to name a few. She has worked in the Environmental Compliance Field since 2014. Prior to that she worked in the production industry where she held positions as a Final Inspector, Quality Control Technician and a Quality Assurance Lab Technician. She possesses an ECI grade 2, QISP, a Wastewater Operator Grade 2, a Water Treatment Operator Grade 1, and a Distribution Operator Grade 1 and has an Associates Science degree in Water Supply Technology. She is the Current P3S Executive Committee Past Chair and the TCP Training Liaison. She is involved in several projects with the CWEA and other organizations such as TCP Train the Trainer program and the CSUS PFI Update Subcommittee. She is also a Subject Matter Expert for the ECI exam and was involved with the recent ECI exam re-validation and revisions to the ECI Study guides.

1:50 pm - 2:15 pm

PFI Update

Leading CSU education staff will provide a brief update on the Pretreatment Facility Inspection (PFI) Manual revision before we lead into our ECI Exam Test Prep Sessions. This is the tool that many of us use to prepare for the EC exams, for on the job training and as an everyday reference. A team of P3S members worked side by side with CSU as we reviewed each page of the fondly referred-to "Ken Kerry Manual." The book has been improved up to today's standards and given a "college text book" functionality. Although none of the content was shortened, the book is slimmer and easier to read with the goal of a constant narrative. We are excited to see what CSU has brought to the table so please join us at the unveiling of your new PFI manual.

CWEA Contact Hours: .5

SWRCB Wastewater CEUs: 0



Primary Speaker: John Rowe, Process Engineer, Office of Water Programs at Sacramento State

John Rowe is a Process Engineer in the Office of Water Programs at California State University at Sacramento. He was a tenured professor of water resources at a college in Florida, and has also taught microbiology, environmental science, biology, and water resource treatment technology. He has a PhD in environmental sustainability, and an A level water and wastewater treatment operator license in Florida. John has worked as a project manager for CH2MHill, and as a technical assistance provider and trainer for the Rural Water Association.

2:15 pm - 2:40 pm

Grade 4 ECI Test Prep

The Environmental Compliance Exam has a new ally: the ECI Exam Blue Prints! They are a concentrated version of the former study guides that provide details and references about the exam for a more focused study tool. Join the CWEA Training Team as they open the door to this Knowledge Skills and Ability style training designed to provide insight into the type of content that can be expected on the exam which includes an extensive math review. This new style of training will not only include the more challenging KSA's and math questions for each grade level, but will also outline how to utilize the newly published ECI Exam Blue Prints to dissect any of the other KSA's one might find challenging. The CWEA Training Team will cover each grade level throughout the day so attendees are invited to drop by for the grade level needed or attend all sessions to get the most out of the training.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Review and describe the more challenging KSA's in preparation of the ECI exam.
- Utilize the ECI Exam Blue Prints to continue preparing for the ECI exam.
- Increase professional knowledge to apply in the workplace.

CWEA Contact Hours: .5

SWRCB Wastewater CEUs: 0

Primary Speaker: Kent McIntosh, retired, Sanitation Districts of Los Angeles County

Kent O. McIntosh holds CWEA certification as an Environmental Compliance Inspector, Grade 4, and as an Industrial Waste Treatment Plant Operator, Grade 1, and he recently retired from the Los Angeles County Sanitation Districts after more than 31 years, the first three as a laboratory technician, then as an industrial-waste inspector. He was the senior inspector for the full-time night-shift team of five. He has a bachelor of science degree in civil engineering and in applied mathematics and a bachelor of arts degree in biology and in German. For the past eight years, he has volunteered as a moderator for the CWEA ECI certification test-preparation sessions.

Speaker: Ramzi Mahmood, Professor and Director, California State University, Sacramento



Dr. Mahmood has been the director of Office of Water Programs (OWP) at Sacramento State since 1997. OWP is a multidisciplinary center providing training, technical assistance, and applied research services for water resources and water quality disciplines. Its mission is to provide cost-effective solutions for protecting and enhancing water resources, public health, and the environment. For over 40 years, OWP training materials have supported the drinking water and wastewater professions, earning it an international reputation as a leader in this field. OWP serves as the US EPA Region 9 Environmental Finance Center (EFC) which supports rural, disadvantaged, and tribal communities throughout the west in financial planning and utilities asset management. He has a faculty of civil engineering at Sacramento State since 1994. He has doctorate and master's degrees in environmental engineering, a master's degree in applied mathematics, and bachelor's degree in Civil Engineering.

2:50 pm - 3:40 pm

ECI Math Test Prep

The Environmental Compliance Exam has a new ally: the ECI Exam Blue Prints! They are a concentrated version of the former study guides that provide details and references about the exam for a more focused study tool. Join the CWEA Training Team as they open the door to this Knowledge Skills and Ability style training designed to provide insight into the type of content that can be expected on the exam which includes an extensive math review. This new style of training will not only include the more challenging KSA's and math questions for each grade level, but will also outline how to utilize the newly published ECI Exam Blue Prints to dissect any of the other KSA's one might find challenging. The CWEA Training Team will cover each grade level throughout the day so attendees are invited to drop by for the grade level needed or attend all sessions to get the most out of the training.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Describe the more challenging KSA's in preparation of the ECI exam.
- Utilize the ECI Exam Blue Prints to continue preparing for the ECI exam.
- Name the more challenging KSA's in preparation of the ECI exam.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1

Primary Speaker: Kent McIntosh, retired, Sanitation Districts of Los Angeles County

Kent O. McIntosh holds CWEA certification as an Environmental Compliance Inspector, Grade 4, and as an Industrial Waste Treatment Plant Operator, Grade 1, and he recently retired from the Los Angeles County Sanitation Districts after more than 31 years, the first three as a laboratory technician, then as an industrial-waste inspector. He was the senior inspector for the full-time night-shift team of five. He has a bachelor of science degree in civil engineering and in applied mathematics and a bachelor of arts degree in biology and in German. For the past eight years, he has volunteered as a moderator for the CWEA ECI certification test-preparation sessions.

1:50 pm - 3:40 pm

EPA Training (Afternoon)

Room: Int'l III, IV & V



Session Chair: Amelia Whitson, Pretreatment Coordinator, US EPA Region 9

Amelia Whitson is a Physical Scientist in the EPA's Pacific Southwest Regional Office (Region 9) in San Francisco. She has worked in Region 9's NPDES Permit Office for ten years, writing NPDES permits, providing technical permitting support to state environmental agencies, and serving as the Region 9 Pretreatment Coordinator. As Pretreatment Coordinator, she is responsible for managing the EPA's oversight of industrial wastewater pretreatment in Arizona, California, Hawaii, Nevada, and the Pacific Island Territories. Amelia holds a B.A. in Environmental Earth Science from the University of California, Berkeley.

1:50 pm - 2:40 pm

Industrial User Surveys and Permitting

Every approved pretreatment program is required to maintain updated information on nondomestic contributions to its collection system. This presentation will walk through the steps of conducting a formal industrial user survey, and will discuss who to permit, how to determine monitoring frequencies, pollutants to be limited, and reporting requirements.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Conduct a successful industrial user survey.
- Determine which industrial users should be permitted.
- Write a clear and effective industrial user permit.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1



Primary Speaker: Amelia Whitson, Pretreatment Coordinator, US EPA Region 9

Amelia Whitson is a Physical Scientist in the EPA's Pacific Southwest Regional Office (Region 9) in San Francisco. She has worked in Region 9's NPDES Permit Office for ten years, writing NPDES permits, providing technical permitting support to state environmental agencies, and serving as the Region 9 Pretreatment Coordinator. As Pretreatment Coordinator, she is responsible for managing the EPA's oversight of industrial wastewater pretreatment in Arizona, California, Hawaii, Nevada, and the Pacific Island Territories. Amelia holds a B.A. in Environmental Earth Science from the University of California, Berkeley.

2:50 pm - 3:40 pm

Industrial User Inspections

Discussion will include minimum inspection requirements from federal regulations, provide an overview of how to prepare for an industrial user inspection, practices and procedures for on-site evaluation, and provide insight on identifying 'tells' during a walk-thru (i.e. identifying indicators).

Learning Objective(s):

After participating in this session, attendees will be able to:

- Prepare to conduct an industrial user inspection.
- Assess industrial user compliance through an on-site inspection.
- Document observations to support regulatory pretreatment oversight.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1



Primary Speaker: Amelia Whitson, Pretreatment Coordinator, US EPA Region 9

Amelia Whitson is a Physical Scientist in the EPA's Pacific Southwest Regional Office (Region 9) in San Francisco. She has worked in Region 9's NPDES Permit Office for ten years, writing NPDES permits, providing technical permitting support to state environmental agencies, and serving as the Region 9 Pretreatment Coordinator. As Pretreatment Coordinator, she is responsible for managing the EPA's oversight of industrial wastewater pretreatment in Arizona, California, Hawaii, Nevada, and the Pacific Island Territories. Amelia holds a B.A. in Environmental Earth Science from the University of California, Berkeley.



Speaker: Jim Polek, Environmental Engineer, U.S. Environmental Protection Agency

Jim is an Environmental Engineer in EPA's Pacific Southwest Regional Office (Region 9) in San Francisco. He has worked in the NPDES Wastewater Enforcement Office for seven years, conducting inspections of, providing compliance assistance to, and managing enforcement actions against industrial users and municipalities, with a focus on pretreatment. Prior to his NPDES Pretreatment work, he was an EPA hazardous waste inspector for nine years. Jim holds a B.S. in Mineral Engineering and an M.S. in Environmental Engineering from the University of California, Berkeley.

1:50 pm - 3:40 pm

FOG (Afternoon)

Room: Catalina

Session Chair: Mary Morse, City of San Jose



Session Chair: Eric Nielsen, District Engineer, South Pacer MUD

1:50 pm - 2:40 pm

New Technology for FOG Programs: City of San Jose Case Study

Program managers and inspectors often see the value in implementing new technologies that allow their stakeholders to digitally submit compliance records, but hit a wall when trying to convince upper management of the need. In this session, hear from Mary Morse from the City of San Jose about how she was able to push their 2-year pilot with SwiftComply into action. Understand what data she collected in advance, the different departments that got involved, and roadblocks along the way. For the second half of the session, Lauren Huey from SwiftComply joins to talk about the implementation steps once approval is received. Learn about the work your team will put in to launch a digital submission program and successes/challenges to anticipate. The session will end with early results about San Jose and SwiftComply's project, which just kicked off in September 2019.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Effectively approach other internal teams for assistance with program implementation.

- Anticipate and overcome procurement challenges for new software.
- Collect the correct data about their program to make the case for change.

CWEA Contact Hours: 1

SWRCB Wastewater CEUs: 0.1

Primary Speaker: Lauren Huey, Customer Success Manager, SwiftComply

Lauren joins us as SwiftComply's Customer Success Manager. Her career began in Washington, D.C. with years in restaurant and event management, before swapping coasts to become an account manager with UberEATS in Portland, OR. There she helped restaurants incorporate new technology to grow their businesses, which was the perfect background to SwiftComply. She's able to combine her restaurant, technology, and hospitality background to help cities communicate with FSEs and use technology to simplify environmental compliance.

Speaker: Mary Morse, City of San Jose

2:50 pm - 3:15 pm

Eliminate Fats in Sewer Systems: Is There a Suitable Fitness Center for This?

Fats and Oils are used widely in households and food business. They thus find their way, in substantial amounts, into the sewer system and are a nightmare for Collection System operators. High pressure cleaning of sewer pipes and suction cleaning of Lift Stations to counter the fats and oils menace is treating the effect and not the source. This is a time and cost intensive process and sewer pipes can never be cleaned to the required degree. Chemical solutions seem to work better than mechanical solutions. However, selecting the correct solution is the most important part. The presentation will discuss different solutions that can be used for oils and fats mitigation. Also, will be discussed about technologies that can resolve more than just the oil and fats issue.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Appreciate the fact that FOGs are a serious issue in Liquid waste transport.
- Increase awareness of technologies available to mitigate FOGs and other issues facing Collection Systems.
- Discuss with their customers about different paths to avoid FOGs entering the collection system.

CWEA Contact Hours: .5

SWRCB Wastewater CEUs: 0.05



Primary Speaker: Nitin Apte, Sales Manager, Calix North America LLC

Nitin works for Calix in the position of Sales Manager. Nitin is a graduate Engineer with a Masters degree in Environmental Management. Working for Calix since 2010, he was involved in the design and commissioning of the world's first Catalytic Flash Calciner at the Manufacturing facility in Victoria, Australia. Later taking over as Sales Manager, he successfully developed the Australian and New Zealand markets for Calix' products in sewage treatment and sewage assets corrosion protection. Based in California, Nitin is responsible for sales of Calix products in North America.

3:15 pm - 3:40 pm

Quality Is Everyone's Responsibility: Understanding How Each Stakeholder Plays a Part in Stopping FOG

They say it takes a village to raise a child, but how many people are required to keep fats, oils, and grease from blocking up our sewers? It turns out that preventing excessive discharges of FOG is more than just a one-man job – it takes a combined effort of plumbers, pumpers, engineers, restaurant owners, inspectors, and so many more collaborating together to combat this problem. This presentation aims to map out the relations between all stakeholders involved with grease management and how each and every one of us plays an important role. By taking a deeper look at how each stakeholder works and communicates with one another, we can use this better understanding to find more efficient and effective ways to solve the issue at hand. Ultimately, audience members will become equipped with the knowledge and resources necessary to encourage increased collaboration between all members of the wastewater industry.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Identify the key stakeholders involved with the prevention of fats, oils, and grease discharge.
- Understand the Stakeholder Journey Map and be aware of the many interactions that occur during the process of acquiring and implementing a grease control device.
- Find new ways to collaborate with their colleagues and peers to more effectively reduce the discharge of fats, oils, and grease.

CWEA Contact Hours: .5

SWRCB Wastewater CEUs: 0.05

Primary Speaker: Faith Winter

Primary Speaker: Tony Cole, Market Development Specialist, Endura/IPEX USA



Tony Cole is a Market Development Specialist with Endura/IPEX USA. He's been with IPEX for the last 3 years, but only recently joined Endura, the separation technologies/Grease Interceptor division of IPEX. Tony graduated from the University of St. Francis (IL) with a BS in Marketing & Management. He's held roles in sales, customer service, and business development for a number of industries including employers like Comcast, Groupon, and Senco Brands. Tony's worked in the construction/building materials industry for almost 5 years with his previous role leading market development efforts for Duraflo, the roof ventilation division of IPEX. He is excited to join the FOG prevention network, and is eager to learn from industry professionals. He represents Endura, a manufacturer of grease interceptors focused on innovation and product development to benefit all stakeholders involved in the cleanup efforts of FOG. Tony is originally from the Chicagoland area in Illinois, but currently resides in Charleston, SC with his fiancé Krystle.

1:50 pm - 3:40 pm

Going Green

Room: Int'l I & II

Session Chair: Theodore Higgins, Chief Environmental Compliance Inspector I, City of Los Angeles/ LA Sanitation/ Industrial Waste Management Division



Theodore Higgins began his career with the City of Los Angeles LA Sanitation & Environment, Industrial Waste Management Division (IWMD) as an Industrial Waste Inspector, now called Environmental Compliance Inspectors in October 2001 (18yrs). He currently works as a Chief Environmental Compliance Inspector in IWMD's Fats, Oil & Grease (FOG) Inspection Group. He is responsible for managing an inspection program with an inventory of nearly 10,000 food service establishments (FSEs). As a newly hired inspector was part of the implementation of the Fats Oils & Grease (FOG) program. Has worked in other inspection groups with IWMD including: Significant Industrial Users Inspection Group (SIU) regulating some of the largest companies in Los Angeles including Pharmaceutical Manufacturers, Food Processors, Metal Finishers, Etc. Local Industrial Users (LIU) such as Car Washes, Industrial Laundries, Food Processors, Etc. After promoting to Senior Environmental Compliance Inspector, he worked in the Significant Industrial Users group and LASAN's new RECYCLA Program. In 2017 was promoted to Chief Environmental Compliance Inspector. Current and past city activities and recognition: • Serves the division as a "Sector Champion" for the Car Wash Industry where his role is to maintain collaborative partnerships with the Car Wash Business Sector to strategize how to make businesses grow and become more sustainable. • Represented IWMD by participating in a national focus group on Micro beads/Micro plastics Pollution with the Nation Pollution Prevention Roundtable. • IWMD Employee Excellence Award 2012 • Emerging Leader recognition by the California Water Environment Association 2018 • Pretreatment, Pollution Prevention & Stormwater (P3S) Person of the Year Award by the LA Basin Section of the CWEA 2019 • Represents LASAN on the SCAQMD Environmental Justice Inter-Agency Task Force Theodore holds Bachelor of Arts (B.A.) degree from Woodbury University.

1:50 pm - 2:40 pm

One Earth LA Education Program

LA Sanitation and Environments' (LASAN) One Earth LA (OELA) developed its name with the mindset that everyone in Los Angeles should be able to live in a pollution free and non-environmentally burdened community regardless of socioeconomic status. To spread this mindset, OELA provides a platform to teach students about sustainability and develop lifelong, environmentally friendly habits. The overall goal is to provide education focused on environmental awareness, public health, safety, and the wastewater system. This will be achieved through presentations and interactive activities that showcase pollution prevention and sustainable living methods. OELA will educate students about environmental issues and encourage them to improve the local environment. Expected results from these programs will be a long-term appreciation for environmental stewardship and behavioral change. OELA will focus on how actions integrate with environmental compliance activities, ultimately assisting in creating a new generation of environmental professionals. Participants will learn how to engage youth on issues related to climate change like pollution, water scarcity, a decrease of biodiversity, and land conservation. Moreover, participants will learn about the history of the local environment and how future solutions to existing problems will involve a compromise between business and the environment to prevent further environmental loss.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Select pollution prevention strategies and use public outreach to engage students and communities to take necessary steps and action.
- Use different methods to raise environmental awareness and encouraging students to take action to improve the communities where they reside.
- Increase public environmental awareness.

CWEA Contact Hours: 1



Primary Speaker: Laura McAlister, Environmental Engineer Associate , LA Sanitation and Environment

Ms. McAlister graduated from UC Riverside in Environmental Engineering and she currently works for LA Sanitation and Environment where she assists businesses to strive in the City of Los Angeles and become more sustainable despite the impediment of myriad of regulations. She pioneers the biomimicry resource guide that encourages design by nature. Ms. McAlister loves to teach and work with youth, and she is developed the One Earth La youth education program to raise awareness in achieving environmental justice in impacted areas.

2:50 pm - 3:40 pm

How to Achieve Sustainability in Disadvantaged Communities

The City of Los Angeles, LA Sanitation & Environment (LASAN) is part of the Clean Up Green Up (CUGU) initiative that has several overarching goals to reduce environmental impacts in disadvantaged communities by coordinating environmental clean-up efforts with other agencies

as well as assisting businesses with environmental compliance. As a liaison to the community, LASAN establishes protocols for the review of new permit requests holistically and train all LASAN environmental compliance inspectors to note cross-media compliance issues and return to other regulatory agencies as needed. LASAN also aims to avoid additional environmental impacts in already overburdened communities by a focused review of permit requests within the Overlay Districts in collaboration with other City Departments. The CUGU Plan will illustrate how to 1) Enhance and better coordinate Clean Up activities and evaluate LASAN operations to mitigate environmental impacts; 2) Expand Green Up activities in Disadvantaged Communities and coordinate with existing programs in an effort to reduce climate impacts; 3) Improve environmental compliance, regulatory assistance, and enforcement; 4) Deliver resources, incentives and grant opportunities to deploy green chemistry and clean technology; 5) Develop environmental education programs in CUGU communities; and 6) Engage the public in policy making, program design and implementation.

Learning Objective(s):

After participating in this session, attendees will be able to:

- Identify public works operational activities that could levitate environmental injustice.
- Use the LA Industry model to conduct effective data-driven outreach.
- Leverage existing resources to maximize effective outreach, inspection and control.

CWEA Contact Hours: 1



Primary Speaker: Jennifer Kong, Environmental Engineer, City of Los Angeles, LA Sanitation & Environment

Jennifer Kong is an Environmental Engineer with the City of Los Angeles. She graduated from UCLA with a bachelor's degree in Chemical Engineering and a master's degree in Ecotoxicology at Oakland University. For 17 years, she has managed the source control and pretreatment program for the City of Los Angeles where she strategizes ways to reduce and minimize industrial pollution. She is a social change maker who believes that green chemistry is the ultimate pollution prevention and waste elimination strategy to build vibrant and sustainable communities.



Panelist: Theodore Higgins, Chief Environmental Compliance Inspector I, City of Los Angeles/ LA Sanitation/ Industrial Waste Management Division

Theodore Higgins began his career with the City of Los Angeles LA Sanitation & Environment, Industrial Waste Management Division (IWMD) as an Industrial Waste Inspector, now called Environmental Compliance Inspectors in October 2001 (18yrs). He currently works as a Chief Environmental Compliance Inspector in IWMD's Fats, Oil & Grease (FOG) Inspection Group. He is responsible for managing an inspection program with an inventory of nearly 10,000 food service establishments (FSEs). As a newly hired inspector was part of the implementation of the Fats Oils & Grease (FOG) program. Has worked in other inspection groups with IWMD including: Significant Industrial Users Inspection Group (SIU) regulating some of the largest companies in Los Angeles including Pharmaceutical Manufacturers, Food Processors, Metal Finishers, Etc. Local Industrial Users (LIU) such as Car Washes, Industrial Laundries, Food Processors, Etc. After promoting to Senior Environmental Compliance Inspector,

he worked in the Significant Industrial Users group and LASAN's new RECYCLA Program. In 2017 was promoted to Chief Environmental Compliance Inspector. Current and past city activities and recognition: • Serves the division as a "Sector Champion" for the Car Wash Industry where his role is to maintain collaborative partnerships with the Car Wash Business Sector to strategize how to make businesses grow and become more sustainable. • Represented IWMD by participating in a national focus group on Micro beads/Micro plastics Pollution with the Nation Pollution Prevention Roundtable. • IWMD Employee Excellence Award 2012 • Emerging Leader recognition by the California Water Environment Association 2018 • Pretreatment, Pollution Prevention & Stormwater (P3S) Person of the Year Award by the LA Basin Section of the CWEA 2019 • Represents LASAN on the SCAQMD Environmental Justice Inter-Agency Task Force Theodore holds Bachelor of Arts (B.A.) degree from Woodbury University.

Panelist: Melissa Plamondon, CUGU Ombudsperson, City of Los Angeles

Melissa Plamondon is an Environmental Affairs Officer with LA Sanitation & Environment (LASAN), City of Los Angeles and manages the Clean Up Green Up (CUGU) Program. CUGU is a unique program that works with business owners and community members to create environmental improvements in communities overly burdened with ongoing environmental impacts. The first three communities selected for this program are Pacoima, Boyle Heights, and Wilmington. Melissa has worked for LA City for 21 years, with a focus on environmental policy and regulatory compliance. For 10 years, Melissa managed LA San's Electronic Waste and Hazardous Waste Programs. In this role, she collaborated with CalRecycle to revise regulations and served on the CalRecycle panel on the Future of Electronic Waste as the only local jurisdictional representative. Melissa also has worked closely with many regulatory agencies, including SWRCB, US EPA, CalEPA, LA County, FEMA, CalRecycle, DTSC, Department of Justice and SCAQMD. Most importantly, Melissa has worked directly with Los Angeles Communities to provide education, collection events, and services for hazardous waste removal, food recovery, and more. Melissa is excited to lead CUGU and continue the important work of providing communities with support to create a more Sustainable City.