

### AC16 TOURS & LEARNING CENTER

### **Technical Tours**

Tickets available at the Reg Desk • Tours depart from Convention Center Lobby entrance

WEDNESDAY	THURSDAY	FRIDAY		
Tour 1: Silicon Valley Advanced Water Purification Center SOLD OUT 9:30 a.mNoon	Tour 3: San Francisco Two stops. This tour includes lunch! 8:00 - 5:00 p.m. \$75	Tour 4: Dublin San Ramon Sanitation Distri Recycled Water Program 9:30 a.mNoon \$35		
[ stamp ] 3 hours swrcb ww .3 ceu	1) San Francisco Bay Model  [ stamp 1]  4 hours  swrcb ww .35 ceu	[ stamp ] 3 hours swrcb ww .3 ceu		
Tour 2: Levi's Stadium Tour SOLD OUT Walking tour 2:00 - 4:00 p.m.  [ stamp ] 2.4 hours	swrcb dw 4 ceus  2) San Francisco Public Utilities Commission Headquarters Tour  [ stamp 2] 3 hours swrcb dw 3 ceus	Tour 5: Silicon Valley Clean Water: Co-digestion Technologies and Trends 8:00 a.m Noon \$35  [ stamp ] 4.8 hours swrcb ww .4 ceu		

Instructions: In order to receive Contact Hours/CEUs you must stay for the entire time period (i.e. 1:40-2:30PM) and have this form stamped at the end of each 50 minute time period. CWEA Contact Hours are available for Technical Tours. Stamps will be given out at the end of the tour. Stamps will not be given out any other times. Please note Contact Hour forms will not be stamped after the session has ended. Sessions approved for SWRCB WW have a green square. Sessions approved for SWRCB DW have a blue square.



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#### **Innovation Learning Center**

Inside the Exhibit Hall • Fast paced sessions • Get your technology questions answered!

WEDNESDAY						
2:00 - 2:50 PM	Pump Station Technologies [ 1 hour stamp ]  Moderator Mark V. Pettit LACSD	What to do with wipes Pump it? Grind it? or Screen it? Anton Loof Oratech Controls G. Paul Schuitt JWC Environmental John Lewis Huber				
3:00 - 3:50 PM	Pumps & Energy Efficiency [ 1 hour stamp ]  Moderator Mark V. Pettit LACSD	Pump efficiency John Mohr Shape Inc. Blower efficiency John McNellis Aero-Mod				
4:00 - 4:50 PM	Advanced Treatment Technologies [ 1 hour stamp ]  Moderator Brian Villacorta Coombs Hopkins	Biogas Utilization Options Adam Klaas, Unison Solutions UV-Peroxide or UV-Chlorine: Which AOP is Right for Your Potable Reuse Project? Adam Festger, TrojanUV				

Innovation Learning Center Sponsors











		THURSDAY			
12:10-1:00 PM	Is California Water Tech on the Fast Track?  Moderator Stephen Stock NBC Bay Area [ 1 hour stamp ]	PANEL DISCUSSION  Tom Ferguson, Imagine H2O  Teresa Herrera, Silicon Valley Clean Water Utilit  E.J. Shalaby, West County Wastewater District  Michael Tooley, MiscoWATER  Bruce Zimmerman, Coombs Hopkins			
1:10-2:50 PM	Cutting Edge Tech for IPR/DPR Monitoring and Brine Management  Moderator Bryan Trussell Trussell Technologies  [ 2 hours stamp ]	Critical Control Points in DPR: Quantifying the Multi-Barrier Approach to Treatment Bryce Danker, Hazen & Sawyer  Chlorine and Ozone analyzer comparison for DPR considerations Brett Faulkner, Trussell Technologies  Using Today's Instruments For Verifying Tomorrow's IPR/DPR Compliance Dave N Commons, Hach  Validation of MBRs for Potable Water Reuse Andy Salveson, Carollo  Minimizing Reverse Osmosis Brine Disposal Volume at the Valencia Water Reclamation Plant Advanced Water Treatment Facility Dr. Bruce Mansell, LACSD			
3:10-4:30 PM	Innovation Water Management System: Sustainable Silicon Valley's Intelligent Water REuse Program  Moderator Bob Hitchner CMO Nexus eWater  [ 1.5 hours stamp ]	PANEL DISCUSSION  Peter Haase CEO & CTO, Acqualogic  Drew Wenzel Campus Design Technical Specialist, Google  Dr. Sebastien Tilmans Director of Operations, Codiga Resource Recovery Center Stanford University  Session partner: SUSTAINABLE SILICON VALLEY			

Noon	WEDNESDAY APRIL 27th • OPENING GENERAL SESSION										
9:00-No	Buildi	ng Extraordinary Re	sults Through Strat	egic Conversations, M	lutuality and Partnersh	ips					
	WEDNESDAY AFTERNOON DEEP DIVES Sponsored by FIGURE ENGINEERING CONSTRUCTION CO.										
	Taking Your Leadership to the Next Level When a Lawsuit Lands on Your Desk?  What Do You Do When a Lawsuit Lands on Your Desk?  Effective Utility Management Leadership and Succession Planning Utility of the Future: Building Sustainability Innovation Learning Cent										
Sponsors	Sors CASA WEST BAY ANALY DETRET ON DESCRIPTION OF D										
Room	Grand Ballroom A-B	Grand Ballroom C-D	Grand Ballroom E-F	Grand Ballroom G-H	Mission City Meeting Room 1-2	Exhibit Hall Learning Center					
1:30-2:20 PM	Whether you want to be a General Manager, would like to be promoted within your organization, or simply want to be more effectively in leading your current team, this session is for you. Managing tomorrow's utility will require a particular set of skills, knowledge and abilities that goes beyond core technical competence. This session will feature general managers, directors and others sharing their experience, advice and insights for the steps you can take today toward your goal to be a wastewater leader.  Session Moderator: Bobbi Larson, Executive Director, CASA A Day in the Life of a General Manager Jason Warner, General Manager, Oro Loma Sanitary District What I Look for in a General Manager Jean Mariani, President, Board of Directors,	Lawsuits challenging public agency compliance with environmental laws are a widespread reality in today's world. Being a "good actor" is no guarantee that your agency will not be targeted. This session will bring together lawyers, agency staff, and other experts to explain this trend and help attendees understand their roles in defending their agencies—before, during and after a lawsuit is filed.  Moderator: Adam Link, CASA  Citizen Suit and State Water Board  Enforcement Overview  Nicole Granquist, Downey Brand;  Mayumi Okamoto, Office of Enforcement, State Water Resources Control Board	As regulatory pressures increase, the workforce becomes more diverse, and everyone is encouraged to "do more with less," utility management becomes increasingly challenging. Come learn about cutting-edge management programs and techniques from guest speakers from the Bay Area and beyond, and help make your organization efficient and successful.  Engaged Learning and Adult Education for Effective Utility Management Phil Scott , West Bay Sanitary and Jeff Hurt, Velvet Chainsaw	The last of the Baby Boomers are heading toward retirement, and preparing for their departure is critically important to your organization's continued success. Learn from special invited guest speakers how to avoid "brain drain" and be ready for coming changes by identifying the next generation of leaders and preparing them for continued success.  Planning for the Future at OCSD Rich Spencer, OCSD	Building upon the Utility of the Future Deep Dive session from the 2015 conference, this session will focus on sustainability. Learn about how forward-thinking ideas from the private sector are being and can be incorporated into public sector utility operations and management. Hear from WEF President Paul Bowen and other invited speakers about what utilities around the state are doing to be "green."  Risks to Opportunity: Lessons from The Coca-Cola Company Sustainability Journey WEF President Paul Bowen, Coca Cola	Water technology is changing fast. It can be hard to keep up. Here's your chance to network with your fellow water professionals and learn about new technologies in our sector. These fast paced presentations are eligible for contact hours, so enjoy the exhibit hall, learn something new and get your hours!  See schedule on first page.					
Break	Novato Sanitary District		Breaks are sponso	red by Brown & Caldwell							
2:40-3:30 PM	Key Attributes of Tomorrow's Leaders Dr. Rita Giacalone, Dewpoint Consulting Understanding and Developing Your Leadership Style  Citizen Suit Actions: An Agency Perspective Paul Bushee, GM, Leucadia Wastewater District; Management Through Storytelling Jolene Walsh, Sr. Director of Public & Governmental Affairs, Eastern Municipal Water District  Changing for Good: Improving Utility Management Through Storytelling Jeff Tucker Napa Valley Sanitation District  Santa Clara Valley Water District IPR/DPR Program Katherine Oven, SCVWD and Phillippe Daniel, HDR Aftairs, Eastern Municipal Water District										
Break			Breaks are sponso	red by Brown & Caldwell							
3:50-4:40 PM	Continues Wrap Up & Take Aways	Preventative Maintenance: Spill Reporting & Managing Your System Mike Sullivan and Ajay Malik, LACSD Wrap Up & Takeaways	Business Performance Management for Utilities of the Future Elizabeth Lowell HDR	A Risk Management Approach to Succession Planning Donna Wies, Donna Wies Consulting	Engaged Learning and Adult Education for the Utility of the Future and Building Sustainability Jim Fiedler, SCVWD and Jeff Hurt, Velvet Chainsaw						



# ANNUAL CONFERENCE 2016 SESSIONS

THU

AM

	Water Resource Recovery of the 21st Century	Extreme Weather: El Niño	Communicating with the Public	Addressing Water Quality Issues and Concerns	Environmental Compliance Exams: Updates & Prep	Maintaining the Collection System	Emerging Trends in Biosolids Management	ABCs of Learning: Advancing Learning, The Brain & Competitive Edge	Nutrient Removal
Sponsors	<b>€</b> VEOLIA	consulting engineers	ROOTX	evantec scientific	EQUIPMENT COMPANY	MME MAINTENANCE EQUIPMENT			MISCO
Room	Grand Ballroom A-B	Mission City Ballroom 5	Grand Ballroom C-D	Mission City Meeting Room 3	Mission City Meeting Room 1	Mission City Ballroom 4	Grand Ballroom E-F	Grand Ballroom G-H	Mission City Meeting Room 2
8:50 to 9:40 AM	Potable Reuse Regulatory Updates State Water Resources Control Board	Preparing for El Nino: Making Emergency Repairs on Stormwater Pump Station Improvements on Short Notice Proves Successful Nina Hawk City of Milpitas	Challenges of Advancing Potable Reuse: San Diego's Lessons Learned Brent Eidson, City of San Diego	Understanding Data Qualifiers Bill Ray, William Ray Consulting	Update on the ECI Certification Chris Lundeen & Vivien Malig, CWEA	Flushables: the New "F" Word: Chronically Clogging Pump Station Case Study Jeff Coyne, MWH Mitigation of Pump Ragging Mark V. Pettit, LACSD	The future of biosolids has many options - which one is right for your facility type, size and risk tolerance? Greg Chung, West Yost Associates	ABCs Of Learning: Advancing Learning, The Brain And The Competitive Edge Jeff Hurt Velvet Chainsaw Consulting	San Francisco Bay Area Nutrient Permit: Streamlining Cost Effective Strategies for Reducing Nutrient Loads Jim Ervin, San Jose-Santa Clara Regional Wastewater Facility and Mike Falk, HDR
Break				Brea	aks are sponsored by Brown & Calo	dwell			
10:00 to 10:50 AM	Leading Edge Research of Direct Potable Water Reuse Andrew Salveson Carollo Engineers	Drought and Water Conservation: The Impact on Wastewater Characterization and Plant Performance Michael Falk, HDR	Solutions for Acceptance: Using Education to Reduce the Ick-Factor and Increase Understanding Liz Moody, Cannon	Introduction and the Importance of Reuse/Recycled Water and Use of Defined Substrate Technology for the Detection of Indicator Bacteria Gil Dichter, Idexx Laboratories	Making the Grade: Simplified Math for ECIs Kent O. McIntosh, Los Angeles County Sanitation Districts	Sewer Maintenance: From Post it Notes to iPads Adrian Tasso, Moulton Niguel Water District	Beginning a Complete Renewal of San Jose's Solids Processing Center Mariana Chavez Vazquez, City of San Jose	Continues	Operational Experience with Sidestream Nitrogen Treatment Ronald Latimer, Hazen Sawyer  Dramatically Reducing Total Phosphorus - The Windsor Story Irene Chu, Hazen Sawyer
Break			1	Brea	aks are sponsored by Brown & Calo	dwell			
11:10 AM to Noon	Adjusting Our Perspective to Potable Reuse Gary Revoir, Tetra Tech	From Drought to El Niño – Managing Climate Impacts on Collection Systems from Low Flows and Water Restrictions to Inflow/ Infiltration Jon Wells, West Yost Associates	Reverse 911 is Vital Communication During Sewer Emergencies Don B. Wasko Carlsbad Utilities	Using Microbial Source Tracking in TMDLs, BMP and Stormwater Management Grace Anderson Source Molecular Corporation	Making the Grade: Simplified Math for ECIs Kent O. McIntosh, Los Angeles County Sanitation Districts	Acoustic Testing Program at the City of Santa Barbara Lisa Arroyo, City of Santa Barbara	Thermal Conversion to Energy & Biochar Steve Wirtel, Kore Infrastructure  Public/Private Partnership Model for Success James Dunbar, Lystek International	Continues	Potable Reuse Demonstration Testing at the Silicon Valley Advanced Water Purification Center Hossein Ashktorab, Santa Clara Valley Water District









## ANNUAL CONFERENCE 2016 SESSIONS

THU



	Water Resource Recovery and Reuse: The Future is Now	The Big Data Challenge: Operations and the Future	Operations and the Future	California ELAP: What it Means	P3S Tackling the Many Challenges	Collection System of the Future	Beyond the Basics of Biosolids	Taking the Technicalities out of Technical Presentations	Improving the Treatment Process	Innovation Learning Center
Sponsors	<b>€</b> VEOLIA		ROOTX	evantec scientific		<b>QUEN</b> EQUIDMENT			MISCO WATER	Hazen
Room	Grand Ballroom A-B	Grand Ballroom C-D	Mission City Mtg Room 2	Mission City Mtg Room 3	Mission City Mtg Room 1	Mission City Ballroom 4	Grand Ballroom E-F	Grand Ballroom G-H	Mission City Ballroom 5	Exhibit Hall Learning Center
1:30 to 2:20 PM	Meeting Multiple Recycled Water Challenges from a Limited Site Michael Price, MWH	Data Driven: How We Can Leverage Data to Work for Us Ric Miles, Rachio, Wes Hartmann, Stanford	From Operator to Manager: Navigating Your Career Interview Panel Laurie Brenner, Union Sanitary District Steve Swanback, Carollo Engineers	What to Expect from the Reorganized California ELAP Christine Sotelo, State Water Resources Control Board	It's Official: Pretreatment Staff Have to Wear Many Hats Christine Wong & Chuck Durham, Tetra Tech	Collection System of the Future - A Roadmap to Excellence in Wastewater Collection System Management (Part 1) Vivian Housen, V. W. Housen & Associates	High Performance Digesters: Can You Handle It? David Parry, CH2M  Digester Gas to Fuel Mike Barnes, Kennedy/Jenks Consultants	How To Be A Bodacious, Wicked, Totally Tubular Technical Presenter And Keep Your Technical Presentations From Suffering From POOH! Jeff Hurt, Velvet Chainsaw	Innovations in Wastewater Disinfection Technologies Tyler Hadacek, MWH	See schedule on first page
Break			^		Breaks are sponsored	by Brown & Caldwell				
2:40 TO 3:30 pm	A Case Study in Maximizing Recycled Water Use to Reduce Nutrient Loads to the San Francisco Bay Andre Gharagozian, Carollo Engineers	Turning Data Into Action to Drive System Optimization and Performance Jeff Neeman, Black & Veatch	Can You Manage Your Manager? Paul Louis	CA ELAP's QA Requirements: Models for Best Practices Part I Diane Lawver, Quality Assurance Solutions	Case Study: Using Trace Chemistry to Identify Sewage Pollution in Storm Water Jennie Munster & Fred Baker, City of Santa Cruz	Collection System of the Future, Part II – Succession Planning Donna Wies, Donna Wies Consulting	Kenosha's Energy Optimized Resource Recovery Curtis Czamecki, Kenosha Water Utility Innovations in Anaerobic Digesters Rashi Gupta, Carollo Engineers	Continues	Raking in the Big Stuff at Silicon Valley Aren Hansen, Brown and Caldwell	
Break					Breaks are sponsored	by Brown & Caldwell				
3:50 to 4:40 PM	Kicking It Downstream: The Effect of Water Treatment Residuals on Wastewater and Recycled Water Paul Friedlander, Carollo Engineers	Mo- Data Less Problems – The Use of Statistical Tools and Probability Distributions To Predict Potable Reuse Water Quality Austa Parker, Carollo Engineers	Plant staff readiness for the commissioning of new treatment plant systems Lance Salerno, Brown and Caldwell	CA ELAP's QA Requirements: Models for Best Practices Part II Diane Lawver, Quality Assurance Solutions	Failing Storm System on Cutting Edge of LID? Or Thinking Inside the Box? Robert Englent, City of Modesto	A Vision for the Collection System of the Future and Lessons Learned and Insights From Over 75 Years of Experience Denis Pollak, VA Engineering and Dave Badgley, Consultant	Developing Tools to Predict the Side Effects of Co-Digestion Ganesh Rajagopalan, Kennedy/Jenks Consultants  A Comparison of WAS-Only Versus Primary+WAS Thermal Hydrolysis Pretreatment to Mesophilic Anaerobic Digestion Drury Whitlock, CH2M	Continues	Effects of Flow Equalization on BNR's Energy and Carbon Footprints Nasir Emami, City of LA  Mitigating the Proliferation of Snail Growth Within Trickling Filters Margil Jimenez and Nasrin Nasrollahi, OCSD	







## ANNUAL CONFERENCE 2016 SESSIONS

FRI

AM

	Planning Ahead to Get Ahead: From Condition Assessments to Asset Management	Conquering Challenges in Today's World	A New Era of Water Resource Recovery Takes the Forefront: Potable Reuse	Resource Recovery for the Utility of the Future	Leveraging the Operations and Engineering Nexus	Adapting to the New Normal	Improving Treatment Processes
Room	Mission City Ballroom 4	Grand Ballroom E-F	Mission City Mtg Room 1	Mission City Mtg Room 3	Mission City Ballroom 5	Grand Ballroom G-H	Mission City Mtg Room 2
8:50 to 9:40 AM	Capital Planning on a Budget: Risk-Based Collection System Condition Assessment Using State-of-the-Art Technology Christopher Peters, Brown and Caldwell	Prop 1 Funding and Technical Assistance Update Jule Rizzardo, State Water Resources Control Board	Can MBRs Replace MF/UF in Potable Reuse - Implementation Concerns? Dr. Ufuk Erdal, CH2M	Assessing Resource Recovery as a Component of Treatment Plants of the Future Wendell O Khunjar, Hazen and Sawyer	Design-Build at a WWTP? Effectively Incorporating Operations Input (Lessons Learned) Kathryn Gies, West Yost Associates	How to Conduct Your Own Risk Analysis for Prioritizing Sewer CIP Projects Andrew Baldwin, RMC Water and Environment	Re-evaluating State-Point Analysis with Ballasted Mixed Liquor Systems Nathan Antonneau, EVOQUA  Dewatering Recycles Management Using Existing And New Facilities, Alternatives Evaluation And Site Planning Dr. Zeynep Erdal, CH2M
Break			Bro	eaks are sponsored by Brown & Caldw	vell		
10:00 to 10:50 AM	Applied Asset Management: Lessons for Performance-Based Regulatory Compliance Katherine Hayden, Ross Valley Sanitary District	Overcoming Regulatory Challenges Andrew Damron and Jeff Tucker, Napa Sanitary District	Potential Nutrient Discharge Limits: Silver Lining for Potable Reuse? Michael Falk, HDR	Filtration As An Advanced Primary Treatment Method To Save Energy And Increase Plant Capacity Onder Caliskaner, Kennedy/Jenks Consultants	Input to the People – Involving Frontline Staff in \$1+B of Capital Improvement Projects Steve Walker, Carollo Engineers	Impacting your Non-Revenue Water through Water Loss Control Michael Simpson, M.E. Simpson Co.	Mainstream Deammonification Using the ANITA Mox Process Brad Mrdjenovich, Veolia
Break			Bro	eaks are sponsored by Brown & Caldw	vell		
11:10 AM to Noon	Smart Asset Data Management Promotes Smart Operations and Maintenance at Regional San Michael Harrison and Allan Scott , Brown and Caldwell, Dean Wyley, Sacramento Regional County Sanitation District	Meeting Water Resource Objectives: One Street at a Time Melanie Mills, Cannon	Framework for Direct Potable Reuse in the San Fernando Valley Mario Acevedo, Los Angeles Department of Water and Power	Take Control of Your Energy Future: How WERF Research, Best Practices and Alternate Delivery combine to accelerate the path to Energy Neutrality Ralph Eschborn, AECOM	Operations & Engineering: How Do We Achieve Success Together? Ron Wade, Facility Process Solutions Consulting	Where's the Rain? Impacts from the Drought on Wastewater Treatment Seppi Henneman, Brown and Caldwell Lisa Arroyo, City of Santa Barbara	Biological Nutrient Removal Process Intensification Through Induced Biomass Granulation Tim Constantine, CH2M

CWEA AWARDS LUNCHEON. Sponsored by DUDEK and CHCOOMBS-HOPKINS









WEST YOST DOWNLOAD CONFERENCE APP

Annual	Conference	2016	Workshops
/ tilliam			

Santa Clara Convention Center

	W1: Building Trust and Having Strategic Conversations	W2: Collection Systems Bootcamp 201	W3: O&M – Condition Assessments and Repair and Replacement Programs	W4: Climate Extremes The New Normal	W5: Water, Wastewater and Stormwater Rates Everything You Want to Know ■		
Room	Grand Ballroom F	Grand Ballroom B	Grand Ballroom C	Grand Ballroom A	Grand Ballroom D		
9:00 AM to 4:00 PM	As water professionals in drought-stricken California, building trust with all of our stakeholders –agriculture, businesses, citizens, government, institutions, nonprofit organizations, and the public at large— is the first step in moving everyone into shared action. It all starts with our conversations—those inward voices that we often listen to first, then those around us including those on our team, those we work for, and our stakeholders.  Conversations are not what we think they are. We think they are about talking, sharing information, telling people what to do, or telling others what's on our mind. We now know through cognitive and neurological research, that a conversation goes deeper and is more robust that traditional information sharing.	Building upon the "Collection System Boot Camp 101" workshop presented at the Northern Regional Training Conference in September 2015, this session will help take your collection system maintenance skills to the next level. Delve into the finer points of cleaning and root control, lift station maintenance, and overflow response.  Learn about what happens after CCTV data is collected, how to use PACP ratings to identify capital improvement and repair products, pipeline rehabilitation and construction methods, and much more.	This workshop will focus on how to assess, plan for, and execute a successful condition assessment and rehabilitation program for concrete structures related to wastewater treatment plants and wastewater pump stations. Many municipalities and agencies have aging infrastructure and are faced with trying to determine how best to assess and fix the situation while maintaining a functioning facility.  This presentation will cover how to identify problem areas, assess the severity of the damage, gain an understanding of how much time you have to do something, discuss methods for determining what level of repair is needed, identifying what types of things can be done to improve the structure, and discussing approaches for doing the improvements.	From prolonged drought to El Niño, the "average year" may be a thing of the past. Learn how climate change is affecting wastewater utilities and its potential impacts on design, operations, rates, and more. Be better prepared for weather extremes by becoming more flexible and responsive to changing conditions.	Effective rates for water, wastewater, and stormwater are critical for the overall success and financial stability of a utility. Hear from California's premier rate experts and lawyers. This one-day multiple session workshop provides a basic outline and update on water, wastewater and stormwater rates. This includes various aspects of developing and adopting new rates:  • How they are prepared  • Key technical components that must be included,  • How they can be used to address infrastructure liabilities,  • Current legal directions based on recent court decisions, and  • Related topics such as advice on how to handle the politics and public outreach.  Speakers include utility managers, attorneys, and rate practitioners who are currently immersed (no pun intended) in utility rates.		
	[ 7.2 hours stamp ]	[ 7.2 hours stamp ]	[ 7.2 hours stamp ]	[ 7.2 hours stamp ]	[ 7.2 hours stamp ] swrcb dw 6 ceus		