

CWEA AC10 TECHNICAL SESSIONS SCHEDULE **WEDNESDAY, APRIL 21, 2010 - AFTERNOON SESSION**

CWEA Committee:	Collection Systems	Biosolids	Laboratory Training	Operator & Maintenance Training	Safety	Operator & Maintenance Training	Supergroup	Engineering & Research	Engineering & Research	Engineering & Research	Pretreatment, Pollution Prevention, and Stormwater						
Session Title:	Collection System Planning	Biosolids Process	Laboratory Analysis & Compliance Monitoring	Operator Training in Biosolids	Electrical and Training Safety	Electrical and Instrumentation	Energy/Finance	Planning and Management	Energy Recovery & Management	Emerging Technologies	Stormwater and FOG Inspections						
Session #:	1	2	3	4	5	6	7	8	9	10	11						
Session Chair:	Sergio Ramirez City of Foster City	Todd Jordan Carollo Engineers	Cassie Prudhel City of South San Francisco	Jeff Cooley City of Vacaville	Tim Page-Bottorff JoshuaCasey Corporate Training	Jeff Cooley City of Vacaville	Dave Kachelski Veolia Water North America Operating Service	Justyna Kempa-Teper Kennedy/Jenks Consultants	Justyna Kempa-Teper Kennedy/Jenks Consultants	Justyna Kempa-Teper Kennedy/Jenks Consultants	John Mukhar City of San Jose						
Session Moderator:	Rick Home City of Burlingame	Todd Jordan Carollo Engineers	Sara Burke Oro Loma Sanitary District	Doug Hauser Orange County Sanitation District	Tim Page-Bottorff JoshuaCasey Corporate Training	Jeff Cooley City of Vacaville	Dennis Laniohan Delta Diablo Sanitation District	Kris Flaig City of Los Angeles	Tom Bloomer DYK Inc.	Toby Weissert Carollo	John Mukhar City of San Jose						
Room Number:	306/307	315	308	314	311	312	310	309	313	304/305	302/303						
1:40 – 2:30 PM	SECTION:	A1	A2	A1	A2	A	A	A	A	A	A1	A2	A	A			
	Presentation Title:	Developing a Sewer Lateral Cleaning Program to Reduce Stoppages and SSOs	Partnering Results in a Successful Project—Marin County	Composting at the Morro Bay—Cayucos Wastewater Treatment Plant	TWAS Pretreatment Technology Review	Electronic Reporting for NPDES Permit Compliance—A 10-Year Anniversary for the San Francisco Bay Region	The Transformation of a Digester Cover	NFPA 70E What Can Hurt You	Stillwater Lift Station Project	Going Green and Turning Waste to Wealth—Energy Efficiency at Wastewater Treatment Facilities	When Evaluating Equipment Delivery Options Pre-Purchasing Delivers the Goods	Bridging the Gap between Energy Planning, Innovation and Future	Energy Independence Planning	Successful Startup and Operation of the First Commercial Phosphorus Recycling Facility in the U.S.	Getting Business Compliance with Your FOG Program		
	Speaker(s):	Ed Oyama West Valley Sanitation District	Isaac Dee Harris & Associates	Bruce Keogh City of Morro Bay	James Marx AECOM	Johnson Lam California Regional Water Quality Control Board, San Francisco Bay Region	Steve Dominguez Delta Diablo Sanitary District	Cory Bykoski DynaElectric	Raluca Constantineuscu CH2M HILL	Vamsi K. Seeta Parsons Corporation	Ed O'Brien and Joe Covello The Covello Group	Zeynep Erdal CH2M HILL	Mike Joyce and Alan Zelenka Kennedy/Jenks Consultants	Mario Benisch HDR, Inc.	Doyle Champlain City of Lincoln		
BREAK (10 min)																	
2:40 – 3:30 PM	SECTION:	B	B	B	B	B	B	B	B	B	B1	B2	B1	B2	B		
	Presentation Title:	Preventing Odors from Inverted Siphons Through Superoxygenation in Laguna Beach, CA	Rethinking Design Criteria for Facultative Sludge Lagoons—20 Years of Successful Operation at the City of Woodland WPCF	Field Analyses—Is That Test Kit Just Like the Approved Method or Is It Just Faking It?	Process Solutions and Trouble Shooting for Belt Presses and GBTs	Train the Trainer - Techniques 5T	Electrical Safety Awareness	Going Green and Saving Green	Using Collaborative Tools to Successfully Manage a \$2.7 Billion Capital Improvement Project	Reducing FOG in Wastewater Streams Through Extraction and Conversion to Biodiesel	Boosting Gas Production with FOG and Food Waste Co-Digestion	Use of Algae to Reduce Carbon Dioxide Emissions from WWTP Engines: An Overview	How Effective is the Wastewater Treatment Processes in Removing Emerging Contaminants?	Investigating Complaints of Excessive Grease or Odors in San Jose			
	Speaker(s):	David Clidence Eco Oxygen Technologies, LLC	Dan Rich NEXGEN Utility Management	William Ray California State Water Resources Control Board	Paul Bland Ashbrook Simon-Hartley	Marjorie Boone JoshuaCasey Corporate Training	Richard B. Guest East Bay Regional Park District	Ray Busch City of San Leandro Water Pollution Control Plant	Dave Heinz, Marc Brown, Gino Rapagna, and Fred Michael Orange County Sanitation District and CH2M HILL	Anand Subramani BioFuelBox	Greg Chung Kennedy/Jenks Consultants	Carla De Las Casas Brown and Caldwell	Ufuk G. Erdal CH2M HILL	Joe Denk City of San Jose			
BREAK (10 min)																	
3:40 – 4:30 PM	SECTION:	C	C	C	C	C	C1	C2	C1	C2	C1	C2	C1	C2	C1	C2	C
	Presentation Title:	CCTV Inspection vs. Manned Entry Condition Assessment: Let's Get Physical!	Biosolids Dewatering Alternatives, What Is Best For You?	Environmental Regulations and the Wastewater Laboratory	Centrifugal Pump Trouble Shooting	Hazardous Energy Control Procedures	Testing of Advanced Online Analyzers	Know Your Flow-Meter Calibration by Dye Dilution	Is Your Contractor a Safe Bet?—Evaluating the Financial Health of Project Proposers	Economic Stimulus Success Stories—How Small Disadvantaged Communities Benefited from the 2009 American Recovery and Reinvestment Act	Tailoring the Triple Bottom Line Approach for your Agency	Small Community in Yuba County Faces Significant Challenges for their Wastewater Treatment System	Cogeneration Technology Selection: City of Santa Rosa Case Study	Implementing a Solar Energy Portfolio at Wastewater Treatment Plants—Challenges and Benefits	Ozonation Transformation Byproducts Formation and Mitigation Strategies	Stabilization of Ozonated Effluent by Biological Activated Carbon (BAC) Treatment	Pre-Production Plastics and the Stormwater Permit Program
	Speaker(s):	Derek Wurst V&A	Kelly Brown BDP Industries, Inc.	Amber Baylor Santa Margarita Water District	Steve Evans Hayward Gordon Ltd.	Steven Laren Delta Diablo Sanitation District	Stephanie Vermande City of San Jose	Aren Hansen Brown and Caldwell	Angela Bricmont Carollo Engineers	Michael Harrison ECO:LOGIC Engineering	Kaumudi Atapattu Carollo Engineers	Onder Caliskaner Kennedy/Jenks Consultants	Adam Ross Brown and Caldwell	Thomas Hendrey Whitley Burchett and Associates	Vijay Sundaram ECO:LOGIC Engineering	Robert W. Emerick ECO:LOGIC Engineering	Chris Haynes and Greg Gearheart California State Water Resources Control Board

NOTE: Technical Sessions are subject to change without notice.

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CWEA AC10 TECHNICAL SESSIONS SCHEDULE **THURSDAY, APRIL 22, 2010 – MORNING SESSION**

CWEA Committee:	Collection Systems	Biosolids		Laboratory Training	Operator & Maintenance Training	Safety	Operator & Maintenance Training	Supergroup	Engineering & Research	Engineering & Research	Engineering & Research	Pretreatment, Pollution Prevention, and Stormwater									
Session Title:	Repair and Rehabilitation	Biosolids Engineering		Training	Operator & Maintenance Training	Safety	Operations	Asset Management	Wastewater Treatment	Tertiary Filtration	UV Disinfection	Stormwater Runoff Management and Case Studies									
Session #:	12	13	14	15	16	17	18	19	20	21	22										
Session Chair:	Sergio Ramirez City of Foster City	Todd Jordan Carollo Engineers	Cassie Prudhel City of South San Francisco	Jeff Cooley City of Vacaville	Tim Page Bottorff JoshuaCasey Corporate Training	Jeff Cooley City of Vacaville	Dave Kachelski Veolia Water North America Operating Service	Justyna Kempa-Teper Kennedy/Jenks Consultants	Justyna Kempa-Teper Kennedy/Jenks Consultants	Justyna Kempa-Teper Kennedy/Jenks Consultants	John Mukhar City of San Jose										
Session Moderator:	Elliott Johnson Castro Valley Sanitary District	Dave Bachtel Lee & Ro, Inc.	Amber Baylor Santa Margarita Water District	John Gonzalez Orange County Sanitation District	Tim Page Bottorff JoshuaCasey Corporate Training	Steve Dominguez Delta Diablo Sanitation District	Dale Ducharme Veolia Water North America Operating Service	Mike Selna Los Angeles County Sanitation Districts	Onder Caliskaner Kennedy/Jenks Consultants	Jenny Reina CH2M HILL	Tom West RMC Water and Environment										
Room Number:	306/307	315		308	312	311	314	309	313	310	302/303	304/305									
8:00 – 8:50 AM	SECTION:	A		A1	A2	A		A		A		A									
	Presentation Title:	No Presentation CONSIDER ATTENDING THE COLLECTIONS SYSTEMS BREAKFAST MEETING 7:00 AM Buy ticket @ Reg Desk		Bench-Scale Study of Food Waste and Biosolids	Feeding Your Digester's Grease Increases Biogas Production While Reducing Biosolids and Greenhouse Gases	No Presentation CONSIDER ATTENDING THE LABORATORY COMMITTEE BREAKFAST MEETING 7:00 AM Buy ticket @ Reg Desk		No Presentation CONSIDER ATTENDING THE O&M COMMITTEE BREAKFAST MEETING 7:00 AM Buy ticket @ Reg Desk	Emergency Response Planning for Sacramento County	No Presentation CONSIDER ATTENDING THE O&M COMMITTEE BREAKFAST MEETING 7:00 AM Buy ticket @ Reg Desk		Integrating Knowledge Management into the Asset Management Program	Balancing Competing Interests to Improve Water Quality in San Francisco Bay: Determining the Optimum Size for Burlingame's WWTF Wet Weather Storage Basin	Pilot Testing and Optimized Design for Tertiary Filtration Facilities at Eugene/Springfield WWTP	Basis and Application of NWRI Ultraviolet Disinfection Guidelines for Design and Validation of Title 22 UV Facilities	No Presentation CONSIDER ATTENDING THE P'S BREAKFAST MEETING 7:00 AM Buy ticket @ Reg Desk					
	Speaker(s):			Dan Gary Los Angeles County Sanitation District	Richard York FOG Energy Corporation			Steven Rahmberg Sacramento County		Randy Weaver GHD, Inc.		Graham A. Calciano Nolte Associates, Inc.	Onder Caliskaner Kennedy/Jenks Consultants	Fred Soroushian CH2M HILL							
BREAK (10 min)																					
9:00 – 9:50 AM	SECTION:	B1	B2	B1	B2	B		B		B		B		B							
	Presentation Title:	How Smart is an Ultrasonic Level Sensor Mounted on a Manhole Cover?	Best Practices and Techniques for Large Diameter Wastewater Header Condition Assessment and Relining	Evaluating and Designing Inland Empire Utilities Agency's Dewatering Expansion Project	A Review of Struvite Formation and Prevention	An Introduction to Emerging Molecular Techniques for Wastewater Laboratories		Facility Wide Optimization at the City of Thousand Oaks Hill Canyon		Drugs and Alcohol in the Workplace	Heat Balance Study of San Jose/Santa Clara Water Pollution Control Plant		Data Framework for Asset Management Decision Making	Modernizing Fixed Film and Combined Plants	Filtration Improvements Trigger Design Criteria for UV System	101 UV Commissioning Tests for Title 22 Applications	Malibu's Integrated Runoff Management Project: Leaving a Water Quality Improvement Legacy				
	Speaker(s):	Alison Furuya Nolte Associates	Mike Oriol V&A	Craig Parker Inland Empire Utilities Agency	Rion Merlo Brown and Caldwell	Phil Gedalanga University of California, Irvine Amber Baylor Santa Margarita Water District		Charles E. Rogers City of Thousand Oaks		Jim Persons JP Safety	Arvind Kumar Akela CDM		Maria Chau GHD, Inc.	John Harrison R. M. Towill	Ken Shuey Kennedy/Jenks Consultants	Andrew Salvesson Carollo Engineers	Tom West RMC Water and Environment				
BREAK (10 min)																					
10:00 – 10:50 AM	SECTION:	C1		C2		C		C		C		C		C		C					
	Presentation Title:	Case Studies Involving Force Main Leak Detection		Creative Approach to Pipeline Repair		Finding a Square Mile of Land for Effluent and Biosolids Disposal in the Central Valley		Common Myths of Laboratory Information Management Systems (LIMS)		MBR Operator Training	Dark Times or New Light for Livermore? Troubleshooting UV	Hearing Conservation and Protection	Getting to Zero—Sustainability Best Practices to Reduce Greenhouse Gas and Energy at Your WWTP		Tahoe's Most Important Pump Station—Building on EPA's New (Old) Asset Management Tools	4.0 MGD Expansion of the El Dorado Hills WWTP – a.k.a. How to Survive a 2-year Major Expansion and Keep Your Sanity	High-Rate Disk Filtration for Title 22 Water Recycling Applications and Approval	Coarse Media at SBSA WWTP Results in Energy Efficiency and "GREEN" Filter Operations!	Destroying Micropollutants and Disinfecting with UV/H2O2 in Water Reuse	Making a Water Sensitive City: San Francisco, a Case Study	
	Speaker(s):	Myron Shenkiryk Pure Technologies	William Cassidy Orange County Sanitation District	Dave Lindow Winzer & Kelly		Marcy Bolek Alloway		Kimberly Mathis EnviroQuip	Andrew Salvesson Carollo Engineers	Trent Lubiens Center for Hearing Health	David J. Reardon HDR, Inc.	Dave Lindow Winzier & Kelly		Tim Sullivan El Dorado Irrigation District	Nicola Fontaine Carollo Engineers	Kapil Verma Kennedy/Jenks Consultants	Ryan Peterson Trojan Technologies	Rosey Jencks San Francisco Public Utilities Commission			
BREAK (10 min)																					
11:00 – 11:50 AM	SECTION:	D		D1	D2	D		D		D		D1	D2	D1	D2	D1	D2				
	Presentation Title:	Overview of Trenchless Pipeline Rehabilitation Methods & Materials		Biosolids Program Update		Gas Detection Fundamentals		Virtual Technology: Cost Effective SCADA Management		Assessing Water and Wastewater Treatment for Plants for EH&S Compliance	PCMO—Plant Capacity Management Operations and Maintenance	Asset Management Drives Collection System Master Planning in South Lake Tahoe		The Nitty Gritty About Municipal Grit	Aeration Upgrades at the Keakehe WWTP - Finding an Energy Efficient Solution for the Next 20 Years	Tertiary Filtration: Looking Beyond the Title 22 Requirements	New, Clean Technology for Turbidity Removal Under California Title 22	Addressing Design and Technology Challenges at California's Largest Wastewater Ultraviolet (UV) Disinfection Facility	Upgrading Capacity at \$20,000/MGD: Diagnosing Wastewater UV Issues at Escondido, CA	Rainwater Harvesting, St. John's Baptist Church, Aptos, CA	Building an Integrated Approach to Manage Stormwater in Urbanized Watersheds
	Speaker(s):	Dave Badgley Sancon Engineering		Greg Kester CASA Biosolids Program Manager		Bob Comer Industrial Scientific		Robert Coromina and Logan Olds Victor Valley Wastewater Reclamation Authority		Jim Thomas Du-All Safety	Eric J. Wahlberg Brown and Caldwell	Christopher Peters Brown and Caldwell		Pat Herrick Hydro International	Fran Burlingham Brown and Caldwell	Hsin-Ying Liu HDR, Inc.	Jim Lauria Amiad Filtration Systems	June Leng HDR, Inc.	Jeff Bandy Carollo Engineers	Bruce Adams Reed & Graham, Inc.	Jagjit Kaur CH2M HILL

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CWEA AC10 TECHNICAL SESSIONS SCHEDULE														THURSDAY, APRIL 22, 2010 – AFTERNOON SESSION						
CWEA Committee:	Collection Systems	Biosolids		Pretreatment, Pollution Prevention, and Stormwater		Operator & Maintenance Training		Public Education	Government Affairs	Supergroup	Engineering & Research		Engineering & Research	Engineering & Research						
Session Title:	Large Diameter Sewers	Biosolids Processes		Mercury and New Regulatory Requirements		Operator & Maintenance Training			Regulatory Updates	Supervision/IT	Wastewater Treatment Sustainability		Disinfection	Nutrient Management						
Session #:	23	24		25		26		27	28	29	30		31	32						
Session Chair:	Sergio Ramirez City of Foster City	Todd Jordan Carollo Engineers		John Mukhar City of San Jose		Jeff Cooley City of Vacaville		Devina Douglas South San Luis Obispo County Sanitation District	Chandra Johannesson East Bay Municipal Utility District	Dave Kachelski Veolia Water North America Operating Service	Justyna Kempa-Teper Kennedy/Jenks Consultants		Justyna Kempa-Teper Kennedy/Jenks Consultants	Justyna Kempa-Teper Kennedy/Jenks Consultants						
Session Moderator:	Patricia DeRouen Restoration Management Company	Jennifer Warren Carollo Engineers		Jen Jackson East Bay Municipal Utility District		Joseph Park Orange County Sanitation District		Devina Douglas South San Luis Obispo County Sanitation District	Gail Chesler Central Contra Costa Sanitary District	Don Cottler South Bayside Sewer Authority	Pavitra Prabhakar Los Angeles County Sanitation Districts		Dave Bachtel Lee & Ro, Inc.	Zeynep Erdal CH2M HILL						
Room Number:	306/307		315		308		314	304/305		312	309		310		311					
SECTION:	A		A1	A2	A1	A2	A	A	A	A	A	A	A1	A2	A					
1:40 – 2:30 PM	Presentation Title:	Large-Diameter Sewer Condition Assessment Program—A Progressive Approach	Using Biotrickling Filters for Removal of Hydrogen Sulfide from Anaerobic Digester Gas	Advanced Biofilter Media for High Level Removal of Total Odor Emissions from Biosolids Handling Facilities	Developing the Methylmercury TMDL for the Sacramento-San Joaquin Delta: The Stakeholder Process	"What's in it for me?" – How to Create Effective Social Marketing for Behavior Change Around Pollution Prevention	Bearing Hands-On Failure Workshop	Tackling the Future: What to Do When the Young Professionals (YP) Become Seasoned Professionals (SP) and the SPs Begin to Marinate	SSO WDR Regulatory Review & Update Process	Management Leadership in the 21st Century	Sustainable Design Approach to Create the Wastewater Plant of the Future		A Performance and Cost Evaluation for Alternative Disinfection Technologies for Dallas	Bench Scale Evaluation of Disinfection Byproducts Formation in a Treated Effluent from the Use of Individual and Combined Disinfectants	WERF Nutrient Removal Challenge: A Collaborative Effort to Address Technology Performance and Regulatory Requirements					
	Speaker(s):	Mark Wade CH2M HILL	Andy Lee Los Angeles County Sanitation Districts	Laura Verhaeghe Biorem Technologies, Inc.	Stephen McCord Larry Walker Associates	Tracy Keough O'Rorke, Inc.	William "Bud" Frabell Koyo Corp of USA	Megan Yoo	Jim Fischer State Water Resources Control Board	Jim Courchaine Westin Engineering	David J. Reardon HDR, Inc.	Andrew Salvesson Carollo Engineers	Jenny Reina CH2M HILL	J.B. Neethling HDR, Inc.						
BREAK (10 min)																				
2:40 – 3:30 PM	SECTION:	B		B		B		B	B1	B2	B		B	B1	B2	B				
	Presentation Title:	Going Beyond Odologgers—Complementary Monitoring Techniques Can Yield Greater Understanding for Causes of Odor Complaints in Your Collection System	Biosolids Drying and Renewable Power Generation at Ventura Regional Sanitation District	Mercury Reduction for Dental Amalgam Program Offices: Implementing a Dental Amalgam Program for the San Jose/Santa Clara Water Pollution Control Plant		Flange Bolting Seminar (Thought You Knew it All)	The Ocean is Closer Than You Think—Staging a Successful Community Open House	Community Based Conservation	Critical Regulatory Issues Update 2009/10	Basic Supervision Fundamentals	City of Bakersfield WWTP 3 Sustainability Upgrade to Enhance Biogas Production, Provide Heat & Power from Cogeneration & Promote Water Reclamation	Successful Implementation of a \$50 Million Wastewater Treatment Plant Construction Project During Difficult Economical Times	Critical Factors Guiding the Selection of On-Site Chlorination for Wastewater Applications	Save Time and Money by Optimizing the Way You Operate Your UV System	WEF/WERF Cooperative Study of BNR Plants: Technology Performance Statistics for Low Effluent Limits					
Speaker(s):	Derek Wurst V&A	Mark Lawler Ventura Regional Sanitation District	Roberta Dunlap City of San Jose		Rich Varalla Tripac Fasteners	Helen Ling City of Livermore	John Hoffman Alloway	Ben Horenstein East Bay Municipal Utility District & Tri-TAC Chair	Dennis Laniohan Delta Diablo Sanitation District	Paul Skager Parsons Water & Infrastructure, Inc.	Onder Caliskaner Kennedy/Jenks Consultants	Alessandro Franchi AECOM	Keith Bourgeois Carollo Engineers	Denny Parker Brown and Caldwell						
BREAK (10 min)																				
3:40 – 4:30 PM	SECTION:	C		C		C1	C2	C1	C2	C		C		C	C1	C2	C1	C2	C1	C2
	Presentation Title:	What Does it Take to Design the Largest Sewer Rehabilitation Project in the Country?	Revitalizing the ATAD Solids Digestion Process at Calera Creek	Bay Area Pollution Prevention Group (BAPPG)—A Regional Approach to Pollution Prevention		Basics of Precision Alignment	Analyzing and Preparing Your Plant for Murphy's Law	Planting Tiny Seeds: Building a Community-Based Watershed Alliance	Update to the Clean Water Act & WEF Government Affairs Committee Update	IT Master Planning	21st Century Water Pollution Control Facility (WPCF) Upgrades at Hayward, CA	Optimizing WWTP Facility Planning to Get the Most Bang for the Buck out of Phased Improvements—A Case Study at the Stillwater WWTP in Redding, CA	UV Disinfection Facilities at Whittier Narrows Water Reclamation Plant: Design, Construction, and Commissioning Challenges	How Different is Different? The Traps and Pitfalls of Applying Statistics on System Performance Evaluation	Improved Nitrification with Fixed Media Integrated Fixed Film Activated Sludge (IFAS) at a Trickling Filter/Contact Stabilization Plant	Looking at the Horizon: Utah's Statewide Nutrient Removal Cost Impact Study				
Speaker(s):	Nancy McWilliams West Yost Associates	Kevin L. Staton Thermal Process Systems	Jennifer Jackson East Bay Municipal Utility District	Sharon Newton City of San Jose	Steve Gordon VibrAlign, Inc	Barry Pomeroy Water Environmental and Services Technology	Jennifer Kaiser Vallejo Sanitation and Flood Control District	Bob Matthews CDM and WEF GAC Chair	Rod Van Buskirk Westin Engineering	Greg Shreeve City of Hayward	Sami Kader Water Works Engineers	Wendy Martin Los Angeles County Sanitation Districts	Jeff Bandy Carollo Engineers	Mario Benisch HDR, Inc.	Doug Barber CH2M HILL					

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CWEA AC10 TECHNICAL SESSIONS SCHEDULE **FRIDAY, APRIL 23, 2010 – MORNING SESSION**

CWEA Committee:	Collection Systems	Student & Young Professionals	Student & Young Professionals	Supergroup	Operator & Maintenance Training	Pretreatment, Pollution Prevention, and Stormwater	Government Affairs	Supergroup	Collection Systems	Engineering & Research	Engineering & Research
Session Title:	Collection System Design	Student Poster Displays	Student Paper Session	Financial Savings	Wastewater Certification Preparation	Stormwater Management Current Affairs: Municipal Regional Permit and	Recycled Water Policy & Salinity Management	Asset Management	CSO Waste Discharge Requirements	Recycled Water	Membrane Bioreactors
Session #:	33	-	34	35	36	37	38	39	40	41	42
Session Chair:	Sergio Ramirez City of Foster City	Lani Good Brown and Caldwell	Lani Good Brown and Caldwell	Dave Kachelski Veolia Water North America Operating Service	Jeff Cooley City of Vacaville	John Mukhar City of San Jose	Chandra Johannesson East Bay Municipal Utility District	Dave Kachelski Veolia Water North America Operating Service	Sergio Ramirez City of Foster City	Justyna Kempa-Teper Kennedy/Jenks Consultants	Justyna Kempa-Teper Kennedy/Jenks Consultants
Session Moderator:	Mark Raynor West County Wastewater District	-	Amanda Schmidt RMC Water and Environment	Jean Premutali Marina Coast Water District	Jeff Cooley City of Vacaville	Tim Potter Central Contra Costa Sanitary District	Jon Hay Black and Veatch	Dennis McBride City of Redding	Jody Allen South Placer Municipal Utility District	Vijay Sundaran ECO:LOGIC Engineering	Phil Ackman Los Angeles County Sanitation Districts

Room Number:	306/307		319		311		302/303		310		304/305		308		309		315		314		313	
8:00 – 8:50 AM	SECTION:	A1	A2	A		A1	A2	A		A	A		A	A		A	A		A	A		A
	Presentation Title:	Pump Station Odor Control Along Cannery Row in Monterey	New Design Standards for Air Jumper Design	Investigation of Hydraulic Parameters within the Drinking Water Distribution System		Evaluating Which TOC Size Fractions Produce the Most THMPF from Different Drinking Water Resources	Nanomaterial Fate and Transport: Removal of Zinc Nanomaterial in Benchscale Bioreactors	No Presentation CONSIDER ATTENDING THE SUPERGROUP COMMITTEE BREAKFAST MEETING 7:00 AM Buy ticket @ Reg Desk		Wastewater Certification Preparation—Grades 1 and 2, Part 1	Municipal Regional Permit Implementation Update		Recycled Water Policy Overview	No Presentation CONSIDER ATTENDING THE SUPERGROUP COMMITTEE BREAKFAST MEETING 7:00 AM Buy ticket @ Reg Desk		SSO-WDR Review and What You Can Expect	No Presentation CONSIDER ATTENDING THE ENGINEERING & RESEARCH COMMITTEE BREAKFAST MEETING 7:00 AM Buy ticket @ Reg Desk		No Presentation CONSIDER ATTENDING THE ENGINEERING & RESEARCH COMMITTEE BREAKFAST MEETING 7:00 AM Buy ticket @ Reg Desk		No Presentation CONSIDER ATTENDING THE ENGINEERING & RESEARCH COMMITTEE BREAKFAST MEETING 7:00 AM Buy ticket @ Reg Desk	
Speaker(s):	David McEwen Brown and Caldwell	Steve Deering, Dudek, Mandy Taylor, William Cassidy Orange County Sanitation District	Carl Crizer California State University, San Jose		David Quiros University of California, Los Angeles	Joshua Smeraldi University of California, Irvine	Michael Fritschi Winzler & Kelly		Dale Bowyer San Francisco Regional Water Quality Control Board	Francis Spivy-Weber State Water Resources Control Board		Russell Norman State Water Resources Control Board		Kathryn Gies West Yost Associates		Bruce Mansell Los Angeles County Sanitation Districts		Michael Priest MWH Americas, Inc.		Frank Chua Los Angeles County Sanitation Districts		

BREAK (10 min)

9:00 – 9:50 AM	SECTION:	B		B		B1	B2	B		B		B		B		B		B		B	
	Presentation Title:	Newport Trunk Sewer and Force mains—Case Study		Use of Wetlands for Treatment of Agriculture Runoff		Pilot-Scale Testing of Ozone & Peroxone for Water Quality Enhancement, Zone 7 Water Agency, Livermore, CA	Polytech Waterbag, Water Treatment for Disaster Relief	A Megawatt Saved is \$1 Million Earned: LACSD's Energy Efficiency Management Program		Wastewater Certification Preparation—Grades 1 and 2, Part 2	Stormwater Diversion to the Sanitary Sewer Systems and POTWs		Solving the Salinity Problem in the Santa Ana Watershed		Implementing Asset Management at the San Francisco Public Utility's Wastewater Enterprise		SSO-WDR Compliance and You!		Evaluation of Year-Round Agricultural Reuse Opportunities for the City of Davis Water Pollution Control Facilities		Testing of Alternative High-pressure Membranes to Produce Recycled Water for Indirect Potable Reuse
Speaker(s):	Hala Z. Titus - Black & Veatch Alberto Acevedo - Orange County Sanitation District		James Edwards University of the Pacific		Siddharth K. Mistri California State University, San Jose	Maggie Herzog Cal Poly, San Luis Obispo	Andre Schmidt Los Angeles County Sanitary Districts		Michael Fritschi Winzler & Kelly	Tim Potter Central Contra Costa Sanitary District		Andy Malone Wildermuth Environmental		John Powell San Francisco Public Utilities Commission		Mark Bradley State Water Resources Control Board		Kathryn Gies West Yost Associates		Bruce Mansell Los Angeles County Sanitation Districts	

BREAK (10 min)

10:00 – 10:50 AM	SECTION:	C1	C2	C1		C2	C		C		C		C1	C2	C		C		C		C	
	Presentation Title:	Sacramento Area Sewer District's Central Trunk Sewer Rehab Project Public Outreach Program	It has to Look Good, Not Smell Bad...and Work—The Design Challenges of the Sellwood CSO Pump Station	Denitrifying Bioreactors: Nitrate Removal Efficiency from Tile Effluent at Different Retention Times		Diversity of Heterotrophic Aerobic Denitrifiers in a Nitrous Oxide Emitting Activated Sludge Tank	Molecular Technique Identification and Quantifying: Predominant Bulking and Foaming Filamentous Bacteria in Activated Sludge	Lessons from the Economic Stimulus Package—Is Applying for Grants Worthwhile?		Wastewater Certification Preparation—Grades 3, 4, and 5, Part 1	Municipal Regional Permit and Pollutants of Concern; Trash, Mercury, PCBs and What Else!		Science and Policy for Salinity and Nutrient Management in the Central Valley CV-SALTS	Salt & Nitrate Sources Pilot Study for Central Valley Salts	What's in Your Asset Management Plan?—An Overview of the Orange County Sanitation District's Asset Management Plan and Program		CWIQS SSO-WDR Database, Trends and Data		El Dorado Irrigation District Recycle Water Program: A Success Story		CCWRD Advanced Wastewater Treatment Membrane/Ozonation Facilities	
Speaker(s):	Amber Parmer Sacramento Area Sewer District	Patrick Fuss West Yost Associates	Wendy Rodriguez California State Polytechnic University, Pomona		Cheng-Yao Tsai University of California, Irvine	Pitiporn Asvapathanagul University of California, Irvine	Alison Lechowicz Carollo Engineers		Michael Fritschi Winzler & Kelly	Chris Sommers EOA Inc.		Daniel Cozad Integrated Planning and Management Inc.	Robert Smith Larry Walker Associates	Simon Watson Orange County Sanitation District		Russell Norman State Water Resources Control Board		Vickie Caulfield El Dorado Irrigation District		Michael Priest MWH Americas, Inc.		

BREAK (10 min)

11:00 – 11:50 AM	SECTION:	D		D1	D2	D		D		D		D		D1	D2	D		D		D		D2	
	Presentation Title:	IPS Weld – On 724 Chemically Resistant Solvent Cement Wastewater Treatment Industry Standard for Joining PVC and CPVC Piping Carrying Sodium Hypochlorite and Other Chemicals		No Posters - Consider Attending the Student Presentations		Survey of Microfiltration Technologies in Southern California	Brackish Groundwater Desalination with Zero Liquid Discharge in Arid Inland Areas: Process and Economics	Small Town Sanitary Agency Wins Big with Asset Management Cloud Computing		Wastewater Certification Preparation—Grades 3, 4, and 5, Part 2	Santa Clara Valley Structural Trash Treatment Control Study		Pandora's Paradox: Monitoring for Emerging Contaminants in the Municipal Water Supplies?		Sacramento Area Sewer District (SASD) Strategic Business Plan and Risk Assessment	Does your Asset Management Program Include a Decision Framework for Equipment Replacement?	SSO-WDR Electronic Reporting Overview		Implementing a Disinfection System for Interim and Long-term Water Reuse		Investigation of Membrane Bioreactor Effluent Water Quality and Technology—A Water Reuse Study		Design, Operations, and Performance Considerations of Different Wastewater Membranes—Lessons Learned from Operating MBR Treatment Plants
Speaker(s):	Stephen Gardiner IPS Corporation		Mauricio Jose Santos Cal Poly, Pomona		Reza Sobhani University of California, Irvine	Bill Brady Sanitary District No. 5 of Marin County	Michael Fritschi Winzler & Kelly		James Downing City of San Jose	Tim Moore Risk Sciences		Mike Huot Sacramento Area Sanitation District	Rebecca Overacre Carollo Engineers	Jody Allen South Placer Municipal Utility District		Carl W. Spangenberg Irvine Ranch Water District		Zakir Hirani MWH Americas, Inc.		Frank Chua Los Angeles County Sanitation Districts			

NOTE: Technical Sessions are subject to change without notice.

CWEA AC10 TECHNICAL SESSIONS SCHEDULE													FRIDAY, APRIL 23, 2010 – AFTERNOON SESSION				
CWEA Committee:	Collection Systems	Student & Young Professionals		Laboratory Training	Operator & Maintenance Training	Government Affairs	Supergroup	Engineering & Research	Engineering & Research	Engineering & Research	Engineering & Research	Engineering & Research					
Session Title:	Condition Assessment	Student Paper Session			Operator & Maintenance Training	Air Quality Management	Technical	Recycled Water	Water Reuse	Membrane Applications	Wastewater Treatment – Optimization						
Session #:	43	44		45	46	47	48	49	50	51	52						
Session Chair:	Sergio Ramirez City of Foster City	Lani Good Brown and Caldwell		Cassie Prudhel City of South San Francisco	Jeff Cooley City of Vacaville	Chandra Johannesson East Bay Municipal Utility District	Dave Kachelski Veolia Water North America Operating Service	Justyna Kempa-Teper Kennedy Jenks Consultants	Justyna Kempa-Teper Kennedy/Jenks Consultants	Justyna Kempa-Teper Kennedy/Jenks Consultants	Justyna Kempa-Teper Kennedy/Jenks Consultants	Justyna Kempa-Teper Kennedy/Jenks Consultants					
Session Moderator:	Sergio Ramirez City of Foster City	Amanda Schmidt RMC Water and Environment		Anthony Pironcini Vacaville Water Quality Laboratory	Doug Hauser Orange County Sanitation District	Sophia Skoda East Bay Municipal Utility District	Dave Kachelski Veolia Water North America Operating Service	Hany Gerges HDR, Inc.	Mike Selna Los Angeles County Sanitation Districts	Dave Bachtel Lee & Ro, Inc.	Bob Witzgall Brown and Caldwell						
Room Number:	306/307		311		310	312	308	309	313	304/305		314	315				
1:40 – 2:30 PM	SECTION:	A		A1	A2	A		A1	A2	A		A	A				
	Presentation Title:	Condition Assessment of Difficult Line Segments		Photochemical Fate of Antidepressant Pharmaceuticals in the Natural Environment	Photochemical Fate of Atorvastatin in the Aquatic Environment	How to Conduct an Internal Investigation for Data Fraud in Your Wastewater Laboratory		Changing Winds: In-House Installation of High Speed Aeration Blowers	Climate Change Legislation—What Does it Mean for You?	Climate Change Regulation—What's Coming?	A Journey through the Sacramento Area Sewer District (SASD) Sewer Collection System Modeling and Flow Monitoring Programs		Recycled Waters Role in Water Master Planning—We Can All Get Along	Application of Small-Scale Treatment Technologies for Water Reuse	Membrane Technologies for Water Reuse: Addressing Microconstituents (Emerging Contaminants)	Advanced Automation for Energy Efficient MBR Systems	Performance Optimization of the Activated Sludge System at the San Elijo Water Reclamation Facility (SEWRF)
	Speaker(s):	Paul Louis Central Contra Costa Sanitary District		Hanoz Sanktoke University of California, Irvine	Behnaz Razavi University of California, Irvine	Diane J. Lawver Quality Assurance Solutions, LLC		David Stoops City of Livermore	Jeannie Renne Malone HDR, Inc.	Jacqueline Kepke CH2M HILL	Ligaya Cabigon Kohagura Sacramento Area Sewer District		Charles Duncan West Yost Associates	Andrew Salveson Carollo Engineers	Val S. Frenkel Kennedy/Jenks Consultants	Andrew Ball Enviroquip	Corey B. Young Kennedy/Jenks Consultants
BREAK (20 min) - ICE CREAM SOCIAL (East Lobby)																	
2:50 – 3:40 PM	SECTION:	B				B	B	B	B	B	B	B1	B2	B1	B2	B1	B2
	Presentation Title:	Condition Assessment & Rehabilitation Technology Selection Chambers Creek Interceptor Tunnel, Pierce County, WA		No Presentations Scheduled - Consider Attending One of the Other Presentations		Pyrethroid Pesticide Analysis in Wastewaters, Stormwaters, and Sediments	Creating an OIT Program to Benefit Your Community and Build Pride in Your Agency	How to Calculate Your Carbon Footprint	Assuring Sewer Capacity in Cost Effective Ways: How SASD's "Under-Capacity Failure Mode Strategy" Saves Millions of Dollars in Trunk Relief	Recycled Water Infrastructure Expansion at the Delta Diablo Sanitation District	Best Available Technologies for IPR: Balancing Cost and Carbon Footprint	Strategies to Optimize Recycled Water Operation	Pilot Study on the Removal of Constituents of Concern using Reverse Osmosis—Microfiltration and Wetlands for Water Reuse in Groundwater Injection and Irrigation	Innovative Recycled Water Desalination Solution at the Cache Creek Casino Resort	Process Modeling—A Tool or the Solution?	Ultra Fine Bubble Diffusers: After Two Projects and Seven Years of Operational Experience, What Do We Think?	
	Speaker(s):	Sandie De Medeiros CDM				Peter Halpin Caltest Analytical Laboratory	Logan Olds Victor Valley Wastewater Reclamation Authority	Amy Clymo CH2M HILL	Ligaya Cabigon Kohagura Sacramento Area Sewer District	Dana Hunt—HDR, Inc. Nancy Ku—Psomas	Jeff Bandy Carollo Engineers	Paul Friedlander Carollo Engineers	Rajat Chakraborti CH2M HILL	Jason Brabec HydroScience Engineers, Inc.	Rishina Dobhal Parsons Corporation	Graham A. Calciano Nolte Associates, Inc.	
BREAK (5 min)																	
3:45 – 4:35 PM	SECTION:	C1	C2			C	C	C	C	C1	C2	C1	C2	C1	C2	C1	C2
	Presentation Title:	Novel Approach to Outfall Tie-In Without Bypass Pumping Reduces Construction Cost, Time and Risk	FOG Program Management—Record Keeping Using Software to Manage Your FOG Program	No Presentations Scheduled - Consider Attending One of the Other Presentations		CSI POTW Lab: Determining the Real Cause of a Low Effluent pH Violation	New Chemical Security Regulations for WWTPs	An Overview of Local Air Districts and Critical Issues Headed Your Way	Methods to Forecast Sewer Rehabilitation and Replacement Needs	Keeping Water Recycling Simple in Kern County	Managing Salinity through Site Management in Redwood City	Sequential Chlorination: An Effective Alternative for Recycled Water Disinfection	Getting Across that Creek—Constructing a Recycled Water Pipeline in Conjunction with Caltrans	Combining the Best of Both Worlds in Membrane Technology	The MBR/Cannibal® Treatment Process: Healdsburg's Hands-On Experience	Can More Aeration Reduce O&M?	Optimization of Existing Wastewater Treatment Facilities Results in Significantly Reduced Construction Cost
	Speaker(s):	Rick Chan Carollo Engineers	Randy Engle XC2 Software, LLC			Anthony Pironcini City of Vacaville	Jeff Cooley City of Vacaville	Stephanie Chang—East Bay Municipal Utility District (BACWA AIR Chair); Vicki Fry—Sacramento Regional County Sanitation District (CVCWA AIR Chair); and Kris Flaig—City of Los Angeles (SCAP AIR Chair)	Michael Flores RMC Water and Environment	Amando Garza Carollo Engineers	Anita Jain Whitley Burchett & Associates	Shiaw-Jy Huitric Los Angeles County Sanitation Districts	Gregg Cummings Kennedy/Jenks Consultants	Brad K. Hansen WesTech	Craig A. Olson HDR, Inc.	Andre Gharagozian Carollo Engineers	Gabriel Aronow ECO:LOGIC Engineering

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