

BACWA wishes to thank our sponsors for their contributions and efforts to bring this popular topic to our membership ...



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Contributors



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Welcome!

NUTRIENT
TREATMENT
TECHNOLOGY
SYMPOSIUM

October 21, 2013
8:00 am to 4:00 pm

Spur Urban Center
654 Mission Street
San Francisco
California 94105



Who we are ...

BACWA is a joint powers agency, formed under the California Government Code by the five largest wastewater treatment agencies in the San Francisco Bay Area. Our members include the many municipalities and special districts that provide sanitary sewer services to more than 6.5 million people. BACWA is dedicated to working with our members, state and federal regulatory agencies, and non-governmental organizations to improve and enhance the San Francisco Bay environment. We provide technical expertise, financial support, and a public utility perspective to ensure that regulations affecting our members are well-informed, thoughtful and effective.

Why is this important?

Historically, the San Francisco Bay has not been adversely affected by nutrients (nitrogen and phosphorus). Consequently, discharge regulations for most of the wastewater facilities discharging to the Bay do not include effluent limits related to nutrients. However, the San Francisco Regional Board is in the process of developing nutrient watershed permit(s) for the Bay. The Regional Board is planning to issue the watershed permit(s) in 2014. As part of the permit, the Regional Board may require wastewater agencies in the Bay Area to assess alternatives for optimizing and/or upgrading their wastewater plants to reduce nutrients in the future.

Program

Time	Item	Speakers	Location
8:00 - 8:15 8:15 - 8:25 8:25 - 8:30 8:30 - 8:45	Continental Breakfast Opening Remarks and Perspective Symposium Overview and Format A Framing Concept: "The Innovation of Process, and the Process of Innovation"	Dave Williams, BACWA Executive Director Moderator David Jenkins, UC Berkeley Denny Parker, Brown and Caldwell	1st Floor 2nd Floor 2nd Floor 2nd Floor
8:45 - 10:35	SEGMENT 1 - CONVENTIONAL TREATMENT TECHNOLOGIES AND HOW THEY ADAPT TO NUTRIENT REDUCTION		2nd Floor
8:45 - 9:05 9:05 - 9:25	Overview of Conventional Treatment Technologies Suspended Growth Technologies and Nutrient Reduction	JB Neethling, HDR James Barnard, Black and Veatch	
9:25 - 9:45 9:45 - 10:05	Biofilm Processes and "The Tale of Two Cities" Wetlands, Natural Systems, and "Green Technologies" Alternatives	Denny Parker, Brown and Caldwell Josiah Cain, Sherwood Engineers	
10:05 - 10:35	Panel Discussion	Jenkins, Neethling, Barnard, Parker, and Cain	
10:35 - 11:00	Morning Break and Networking		
11:00 - 12:25	SEGMENT 2 - OPTIMIZATION OF EXISTING FACILITIES		2nd Floor
11:00 - 11:20	Unintended Consequences of BNR Conversion (i.e. sludge settling problems, foaming, struvite formation, and excessive energy use) and Process Optimization Solutions	Alex Ekster, Ekster and Associates	
11:20 - 11:40	Side-Stream Treatment Technologies and Experience	Beverley Stinson, Aecom	
11:40 - 12:00 12:00 - 12:25	Split Treatment Strategies Panel Discussion	Andre Gharagozian, Carollo Engineers Jenkins, Ekster, Gharagozian, and Stinson	
12:25 - 1:00	Lunch		1st Floor
1:00 - 2:25	SEGMENT 3 - NEW APPROACHES, TECHNOLOGIES, AND RESEARCH		2nd Floor
1:00 - 1:20 1:20 - 1:40	Overview of New and Emerging Technologies ReNUWIt Research Highlights and Engineered Wetlands	John Fraser, Carollo Engineers David Sedlak, UC Berkeley	
1:40 - 2:00 2:00 - 2:25	Phosphorus Capture and Recovery Panel Discussion	Steve Wirtel, Ostara Fraser, Sedlak, Wirtel, Neethling, and Stinson	
2:25 - 2:50	Afternoon Break and Networking		
2:50 - 3:50	SEGMENT 4 - BAY-DELTA REGIONAL POTW NUTRIENT ACTIVITIES UPDATE		2nd Floor
	Moderator Jim Kelly, JMK Engineering Panel discussion format from local member agencies on current and planned studies and activities related to nutrient treatment	Mike Connor - East Bay Dischargers Authority Jim Ervin - SJ/SC Wastewater Treatment Plant Ben Horenstein - EBMUD Karen Kubick - SFPUC Wastewater Enterprise Prabhakar Somavarapu - SRCSD Curt Swanson - Central Contra Costa Sanitary District	
3:50 - 4:00	Closing Comments	Dave Williams, BACWA Executive Director	