

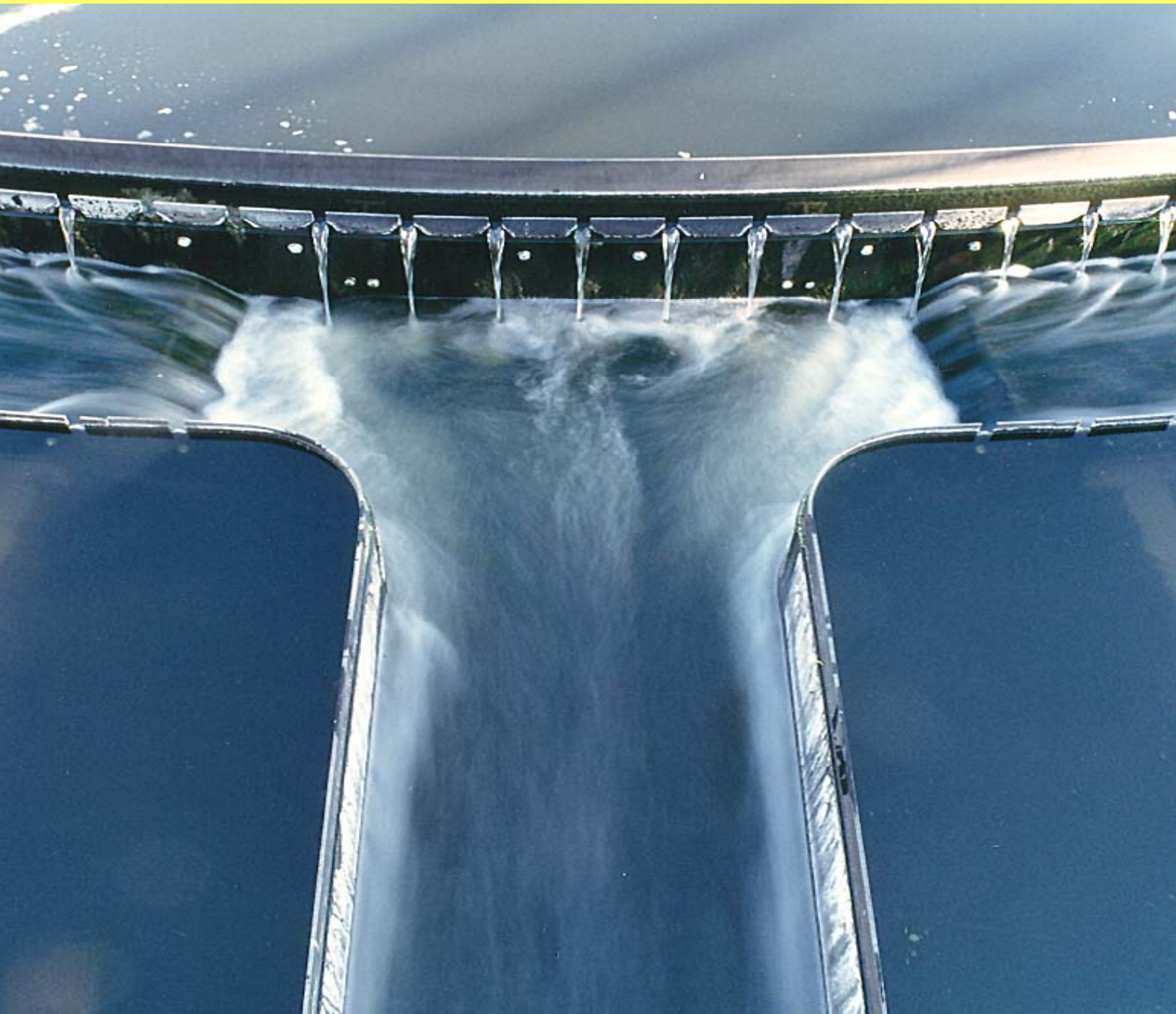


----- “The Goal” and Wastewater Treatment -----  
----- CWEA Government Affairs Specialty Conference on Global Climate Issues -----  
----- Highlights from the ASCE Pump Seminar -----  
----- LABS Young Professionals Summer Event at the Hollywood Bowl -----  
----- See Page 5 for LABS July Training Event Details -----

July 2008 SEWER LEAKS – A Los Angeles Basin Section of the CWEA Publication

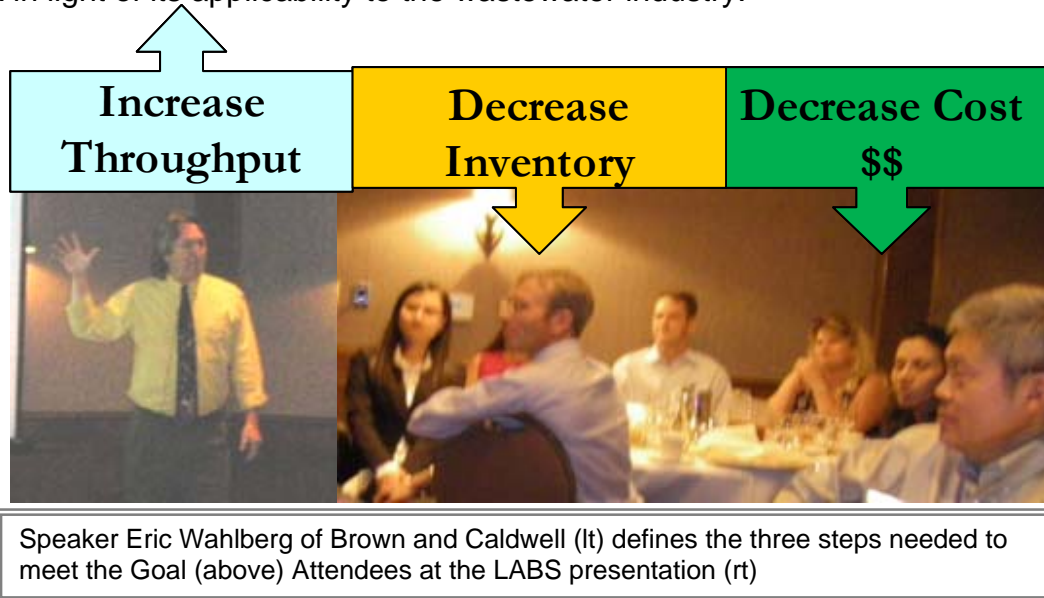


LABS VP Hala Titus (lt) speaker Eric Wahlberg at the June LABS Event (ctr lt) Attendees at the June LABS Event (ctr) CWEA Regulatory Affairs Cmt Chair Nichole Baker and speaker Patrick Griffith at the Global Climate Issues Specialty Conference in Whittier (lt) Cincinnati MSD rectangular clarifiers with circular weirs presented as an example of process design constraints at the June LABS event (below)



## “The Goal” and Wastewater Treatment

On June 26, the Los Angeles Basin Section (LABS) of California Water Environment Association (CWEA) hosted a training meeting at the Monterey Hill Restaurant in Monterey Park. The featured speaker at the event, Dr. Eric Wahlberg of Brown and Caldwell, presented a review of the business management publication “The Goal” written by Eliyahu Goldratt and Jeff Cox in light of its applicability to the wastewater industry.



Speaker Eric Wahlberg of Brown and Caldwell (lt) defines the three steps needed to meet the Goal (above) Attendees at the LABS presentation (rt)

After a creative guitar interlude that served as an icebreaker, Dr. Wahlberg challenged leaders of the wastewater industry to consider the operation of wastewater treatment plants using principals generally applied to manufacturing plants, though the industrial engineering discipline. The goal of any manufacturing plant is to make as much money as possible. Historically, wastewater treatment plants came on-line to achieve water quality regulations and therefore the industry has established permit compliance as its primary goal. According to Dr. Wahlberg, this practice can lead to inefficiencies in operations since management does not generally assess wastewater treatment plants in light of manufacturing principals. These principals are currently being applied agencies throughout the US. These include Cincinnati MSD, Metro Denver, and the City of Los Angeles. An example of design optimization was shown for Cincinnati MSD where square clarifiers were designed with circular weirs. This complicates solids removal and increases the plant inventory.

Dr. Wahlberg redefines the goal of wastewater treatment plants as an opportunity *to make permit and produce safe, usable biosolids as cost effectively as possible*. The three steps required to achieve the goal are (1) Maximize throughput, (2) Minimize inventory, and (3) Minimize operating expenses. Dr. Wahlberg cautioned the wastewater industry to pay attention to the order of the steps. Often there is a tendency to focus on cost minimization, however, plants can become distracted by reducing costs that don't have any impact on reducing operating expenses. For example, reducing the aeration rate could be narrowly viewed as an “operating cost reduction” however, it leads to poor solids settling and increased inventory. The order is important. From a “production” standpoint, wastewater treatment plants produce biosolids. To achieve the goal in wastewater treatment: (1) Maximize throughput by assuring max capacity always available, (2) Minimize inventory by minimizing solids mass in all processes, and (3) Minimize operating expenses by doing the other two.



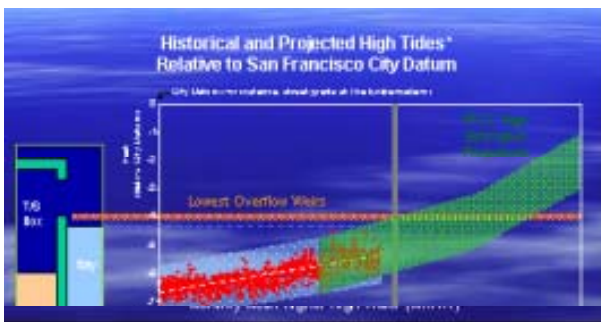
## CWEA Government Affairs Specialty Conference a Success!

On June 17<sup>th</sup> and 18<sup>th</sup> CWEA's Government Affairs Committee hosted two one-day specialty seminars entitled Global Climate Change Issues. Concerns over climate change as a consequence of the release of greenhouse gases (GHGs) has resulted in a range of efforts to regulate and reduce their emissions as well as to replenish the stores of fixed carbon (C) on earth. As a result of these efforts, there is now a financial value and international markets for stored carbon or carbon / GHGs that are not released into the atmosphere. Expected increases in the stringency of the regulatory framework will likely lead to increased values for carbon. This would make offset projects more financially appealing. As with other commodities, accounting systems have been developed in an attempt to quantify changes in carbon emissions associated with difference practices.



Speaker John Robinson, MWH discusses Regulatory trends (lt) Attendees at the Whittier Specialty (rt)

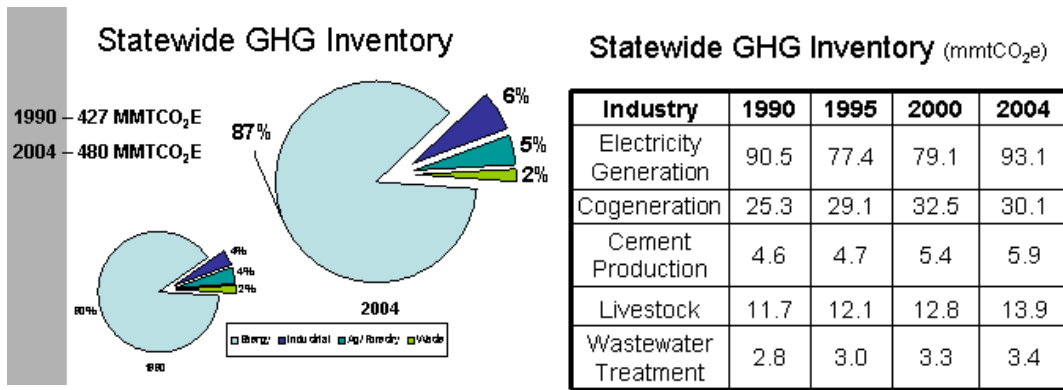
Attendees were welcomed to the Specialty by Nichole Baker the CWEA Government Affairs Committee Chair. John Robinson of MWH then presented a General Overview of Current Regulatory Trends. These include: GHG registries such as the CA Climate Action Registry and GHG reduction programs such as EPA Climate Leaders and DOE 1605b/Climate Vision. Mr. Robinson explained that trading programs such as Chicago Climate Exchange (CCX) are gaining definition. John challenged attendees to represent their industry to help make the system effective. Arleen Navarret and Jon Loiacono of SFPUC presented on Sea Level Rise – Current and Future Impact on the San Francisco Public Utilities Commission.



Impact of rising tides on San Francisco's combined sewer system (lt) Proposed low impact design to attenuate over taxed storm sewers includes: intensive eco-roof, rain screen, permeable paving, cistern, in-street planter (ctr) San Francisco Bay area's Wastewater System (rt)

Arleen and Jon of SFPUC explained the vulnerability of San Francisco to sea level rise due to the existing combined sewer system. Over the last 20 years tides have risen from 2.5 (mean) to 6 (high) inches. Elevated tides have led to capacity loss and contamination concerns for the

combined sewer system. Short-term solutions such as duckbill valves have been installed longer term solutions such as low impact development are planned. Ray Huff and Patrick Sullivan of SCS Engineers then presented on the carbon footprint and impact of biosolids. Ray and Patrick introduced the mandatory GHG emissions reporting requirements contained in AB32 and the voluntary GHG emissions reporting requirements contained in the CCAR. Voluntary reporting benefits the industry by leading to the establishment of credible industry baselines, advancing GHG accounting standards, preparing for emissions trading, and preparing for the inevitable (AB32). Alyson Watson of RMC presented on AB32. The California Global Warming Solutions Act of 2006 (AB32) requires reduction of GHG emissions to 1990 levels by 2020 and 80% below 1990 levels by 2050 the 1990 GHG emissions baseline = 427million MTCO<sub>2</sub>E the 2004 GHG emissions = 480 million MTCO<sub>2</sub>E. The wastewater treatment industry represents approximately 2% of this loading. In addition a statewide cap will be required beginning in 2012. Under AB32 the CARB is required to establish a mandatory reporting system, early action measures, and cap and trade program. The program concluded with a presentation by Patrick Griffith of LACSD on the Lieberman-Warner Climate Security Act of 2008 (S. 2191/S. 3136).



**ASCE Pumping Systems Design for Civil Engineers June 6-7 in Whittier**



On June 6-7 ASCE hosted a Pumping Systems Design Seminar in Whittier presented by David Hanna, Professor of Civil Engineering at Ferris State University. The course provided an overview of the specification of successful pumping systems which included: a review of hydraulic operating conditions, design issues, pressure factors, manufacturer’s pump head-capacity curves, and comparative features of different types of pump stations. System curves and hydraulic design details required for a successful pump station design include: System pressures, Operating parameters, Plot of system head curve(s), pump curves, efficiencies coverage charts, and basic specification information. The purpose of pump station design is to marry the pump curves with system curves.

**Save the Date LABS Young Professionals hosts “A Night in Old Havana”**

Join YP’s for their annual summer event next month on August 16, 2008 for a picnic at the Hollywood Bowl followed by a concert titled "A Night in Old Havana."



THE LOS ANGELES BASIN SECTION OF THE C W E A  
HOSTS A DINNER AND TRAINING MEETING



**“Communicating to Gain Public Acceptance  
in the Water Industry”**

**Thursday, July 24, 2008**

**Doubletree Hotel Carson Civic Plaza**

----- (See map below) -----

**Guest Speaker**  
**Ron Wildermuth, Manager of Public and Government Affairs**  
**West Basin Municipal Water District**

**TOPICS:**  
Targeted communications works best.  
You can reach the general public in a cost effective manner.  
Make the media your friends.

Dinner is at 6:30; presentation at 7:15; join us at 6:00 for the mixer if you can.

**Dinner Menu:**

Meals include one of the following entrees:



***Tender Marinated Tri Tip***

Roasted Steak served with Bordelaise Sauce

***Grilled Atlantic Salmon Filet***

Creamy Dill Sauce or Lobster Sauce

***Rosemary Chicken***

Breast of Chicken with fresh Rosemary with a hint Garlic

***Pasta Primavera*** (For Vegetarians)

**Reservations:**

**RSVP By MONDAY, July 21<sup>st</sup>**

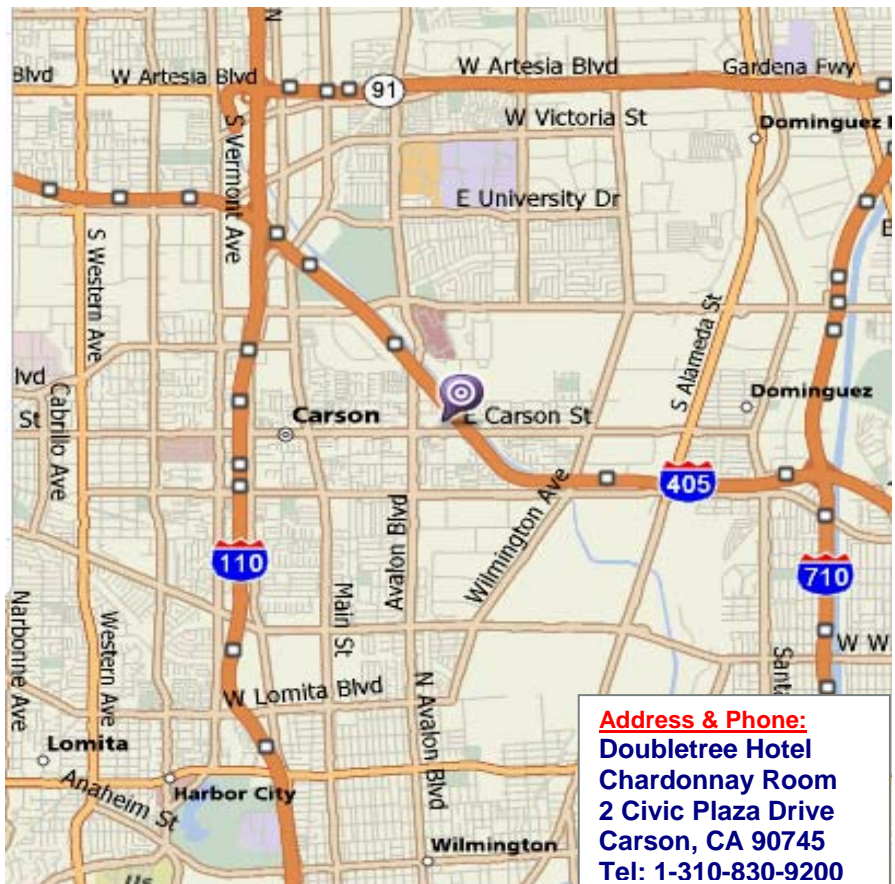
RSVP (with one menu choice from above) to Hala Titus by e-mail (preferred method) at [mail to: titush@bv.com](mailto:titush@bv.com) -or- by phone at 213-312-3300

**Event Cost:** (pay at the door)

Member	\$30
Non-Member	\$35
Student / Retiree	\$15



Handicap Accommodations Available



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[www.arb.ca.gov/cc/scopingplan/meetings/meetings.htm](http://www.arb.ca.gov/cc/scopingplan/meetings/meetings.htm)

Jul 11<sup>th</sup> LEED US Green Building  
Council Class [www.usgbc.org](http://www.usgbc.org)

Jul 11<sup>th</sup> Edison *Title 24 – What to  
expect in 2009*, Irwindale  
[www.sce.com/energycenters](http://www.sce.com/energycenters)

Jul 24<sup>th</sup> LABS Training Event  
[www.labsofcwea.com](http://www.labsofcwea.com)

Aug 16<sup>th</sup> LABS YP Summer Event at  
Hollywood Bowl  
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