



Indoor Composting Facility (above) Biofilter Header End Bulkhead Preparation (below)



## LABS Hosts Dinner and Training Meeting

On March 22, 2007 the Los Angeles Basin Section (LABS) of CWEA hosted a dinner and training meeting at Taix French Restaurant in downtown Los Angeles.

John Robinson of MWH discussed key design, permitting and construction features for the largest fully enclosed indoor composting facility in the world. With limited biosolids application sites in California, Inland Empire Utilities Agency and Los Angeles County Sanitation District formed a Joint Powers Authority in order to construct the facility.



John Robinson presents at Taix in Los Angeles

A team of consultants worked with IEUA and LACSD to prepare the preliminary design, permitting, final design and construction support to build a 150,000 ton per year composting facility in San Bernardino. Half of the facility capacity (75,000 TPY) is allotted to each partnering agency. This state-of-the-art compost manufacturing facility cost approximately \$55 million in construction fees to retrofit an existing 400,000 square foot building.

Odor concerns were a high priority both for the operators of the facility and air quality regulators. The South Coast Air Quality Management District (SCAQMD) established a number of rules that govern air turnovers in a composting facility and odor control. The SCAQMD requires six air changes per hour, partly to control odor.



Installing conveyor support framing adjacent to biosolids hoppers

However, to ensure sufficient odor dilution, this baseline was doubled to 12 air changes per hour for the active composting area of the facility. In this way the facility exceeds the regulated standard. To accomplish this standard a 150 foot long 8 foot high biofilter and 120 process fans supports 813,000 cfm of air scrubbing.

An aerated static pile (ASP) was selected to manufacture exceptional quality compost. The aeration system is operated 90% of the time in the negative mode and the remaining 10% in the positive mode. The process is designed to achieve 21 days of active composting and 28 days of curing.

Mixing at the facility will be accomplished using a continuous flow pug mill with one dedicated backup for redundancy. 110 cubic yards of active compost material will be processed by the system each day. Materials will move through the facility via conveyors and 6 front-end loaders (John Deere) with cubic yard buckets.



**Innovative Project Features**

The innovative project will recycle water from an adjacent IEUA wastewater treatment plant (RP4) for on-site non-potable uses such as vehicle washing, landscape irrigation, and process water applications such as biofilter wetting.



Wow what a door prize!

Permitting the project was on the critical path with respect to schedule. The IEUA has developed a program Environmental Impact Report (EIR) for all of their facilities. An amendment to the program EIR served as environmental documentation for this project. A conditional use permit (CUP) was required for the project. The SCAQMD permit required 18 months to finalize. In addition CIWMB and RWQCB permits were also required. John advised that “there is no such thing as over communicating with the regulators.” The facility will be able to process biosolids at a cost of \$65 to \$80 per ton.

**San Joaquin Valley Air Pollution Control District Adopts Rule 4565**

On March 15, 2007 the governing board of the San Joaquin Valley Unified Air Pollution Control District (District) adopted Rule 4565 regarding biosolids operations and operations that use animal manure and poultry litter. The rule was established to minimize air pollution, including a commitment by the District to limit 1-hour extreme ozone emissions.



Blue skies in the San Joaquin Valley

Typical management options for biosolids, animal manure and poultry waste include composting, land application and landfill disposal. Rule 4564 identifies two classes of mitigation measures.

Class One Mitigation Measures recommend good housekeeping activities such as sweeping and scraping work areas, monitoring pile characteristics and covering piles.



Science students “sing “ for clean air and continued educational support at the March 15, 2007 SJVAPCD Board Meeting – Their motion carried by a unanimous vote

Class Two Mitigation Measures recommend specific engineered emission control systems such as a capture system for aerated static pile (ASP) composting, or in-vessel composting vented to a volatile organic compound (VOC) control device.



The San Joaquin Valley Air Pollution Control District Adopts Rule 4565 on March 15, 2007 in Fresno

In addition, the rule contains a provision of alternative measures that would achieve the best available control technology (BACT). The number of required mitigation measures that a facility must enact are correlated to the facility throughput.

This rule will not apply to dairies and feedlots (already governed by District Rule 4570), farms (Rule 4550) or greenwaste, which will be governed by a future rule.

### ***Volunteer Judges Needed for the Los Angeles County Science Fair***

The 57<sup>th</sup> Annual Los Angeles County Science Fair is set for April 26-28, 2007 at the Los Angeles Convention Center. Professional people are needed to serve as judges. Please notify Sylvia (562) 922-6412 or Tim Williamson at [Williamson\\_Tim@lacoedu.edu](mailto:Williamson_Tim@lacoedu.edu) to volunteer.

### **ELECTRONIC SEWER LEAKS VERSION AVAILABLE**

Receive your LABS Sewer Leaks earlier than by mail with the option of receiving an electronic edition. Please contact [dgary@lacsdsd.org](mailto:dgary@lacsdsd.org) if you wish to receive an e-mail edition of Sewer Leaks.

### ***There Are Many Local Opportunities to Celebrate Earth Day this April***

The City of Pasadena hosts an Earth Day Celebration on Saturday April 21, 2007 from 10 a.m. - 4 p.m.



Satellite Image of San Francisco Bay

## Los Angeles Environmental Education Fair

The 28<sup>th</sup> Annual Los Angeles Environmental Education Fair held on March 10-11, 2007 at the Los Angeles County Arboretum and Botanic Gardens in Arcadia was a success. Over the weekend, more than 60 environmental education organizations presented hands-on activities, ready-to-use lesson plans, field trip and assembly ideas, and other useful resources for school and home environmental projects.

Highlights included the opportunity to explore a variety of interactive displays and events, including the mystery of animal tracks, analysis of owl pellets, and live animal exhibits.

### Ecological Treasure Hunt

Students in grades 4-12 enjoyed the ecological treasure hunts. Using a map and a compass, teams explored the ecological treasures of the Arboretum. Students were challenged to locate several "Eco Stops" where they participated in hands-on activities and answered questions about the world of nature.



Jonathan Iorga and Phil Markle of LACSD demonstrate "Sewer Science" to students at LAEEF

### Trees Green the Community

The Arboretum gave away free trees during the 2007 Los Angeles Environmental Education Fair. This activity included an educational tree hike to discover what trees need, at the completion of the hike participants were awarded a tree and encouraged to plant it at their home or school, care for it properly, and watch it grow!

### Major Sponsors of the Los Angeles Environmental Education Fair



**Come Celebrate Earth Day With The Central Basin Municipal Water District and LACSD In Whittier on Saturday April 14, 2007 10 a.m. – 2 p.m.**

Sanitation Districts of Los Angeles County  
1955 Workman Mill Road  
Whittier, CA 90601

**FUN & EDUCATIONAL activities for the whole family**



*Exhibitors include:*  
Mono Lake Committee  
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LA Zoo and Botanical Gardens  
Planet Green  
OldTimers Foundation  
And Many Others!





## LABS Holds 2007- 2008 Term Officer Elections

At the March 22, 2003 Dinner and Training meeting local officer elections were held. The following individuals have been elected:

President -	Pei-Chin Low
Vice President -	Patrick Griffith
Director -	Dan Gary
Director -	Hala Titus
Director -	Pat McDaniel
Director -	Wendy Wert
Past President -	John Mays



Officers will be introduced at an April 26, 2007 ceremony.

## And the CWEA 2007 Nominees are...

CWEA's 2007 Business Meeting will be held during the Cycle Into Excellence: 79<sup>th</sup> Annual Conference held at the Ontario Convention Center April 17 – 21, 2007. The annual business meeting will take place on April 19, 2007 from 12 noon – 1:30 pm in Ballroom C. All CWEA members are invited to attend to hear updates on association business and participate in voting. The slate of nominees for the CWEA Board of Directors & Officers are:

Vice President from the North-	Darren Greenwood
Director from the North-	Phil Scott
Director from the South-	Ann Heil
WEF Director from the North-	Fran Smith
Automatic Appointments:	
SRC Chair-	Connie Leonard
TCP Chair-	Michael Creel

### CYCLE INTO EXCELLENCE



2007 CWEA ANNUAL CONFERENCE • ONTARIO, CALIFORNIA

A full set of proposed amendments is available online at [www.cwea.org/annualbusinessmeeting](http://www.cwea.org/annualbusinessmeeting) or they can be mailed to you by calling CWEA staff at 510-382-7800.

## Share Your Projects, Solutions, and Ideas with Colleagues

We know you have great projects, programs, facilities, plans, operations, solutions and ideas. We've heard the buzz throughout the Los Angeles Basin.



Why not take them to a larger audience by publishing in The Wastewater Professional. July 5, 2007 is the deadline for the October Issue. The Wastewater Professional is published quarterly by the California Water Environment Association.



THE **LOS ANGELES BASIN SECTION** OF THE **CWEA**  
HOSTS A **DINNER AND TRAINING MEETING**

**CITY OF LOS ANGELES NITROGEN REMOVAL PROGRAM &  
LABS OFFICERS INSTALLATION**

**Thursday, April 26, 2007**

**Ports O' Call Restaurant**

----- San Pedro, CA (see map below) -----

5:00 p.m.	LABS Board of Directors Meeting	7:00 p.m.	Dinner
6:00 p.m.	Cocktails & Networking	8:00 p.m.	Presentation

**--Guest Speakers--**

**Ali Poosti, City of Los Angeles**  
**Slavica Hammond, PhD, P.E. MWH Americas, Inc**

The City of Los Angeles is in the process of completing the implementation of major nitrogen removal program at its upstream plants. The Donald C. Tillman (DCT) and Los Angeles-Glendale (LAG) Water Reclamation Plants are being converted for nitrogen removal utilizing the MLE (Modified Ludzack Ettinger) process. The speakers will talk about their experiences during the design and construction phases of the program.

**Dinner Menu:**

Meals include one of the following entrees:

**Entrees**

1. Almond Crusted Chicken  
Stuffed with Brie Cheese, Pears and Roasted Almonds
2. Grilled Seabass  
Topped with Saffron Butter
3. Grilled Mediterranean Vegetables

**Dessert**

New York Style Cheesecake

**Reservations:**

**RSVP By MONDAY, April 23**

RSVP (with one menu choice from above) to  
Pei-Chin Low by E-mail (preferred method)  
at Pei-Chin.Low@mwhglobal.com

-or-

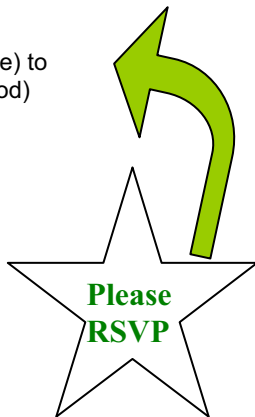
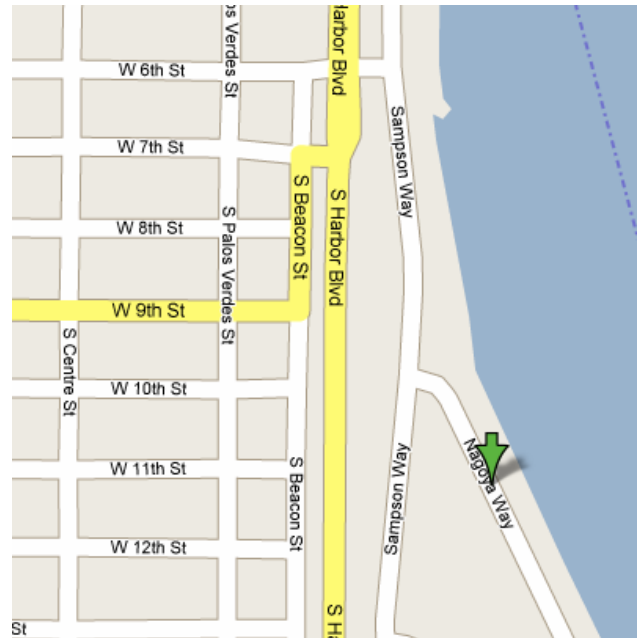
by phone at 626-568-6999

**Event Cost:** Member \$30  
Non-member \$40

**Address & Phone:**

**Restaurant Address & Phone:**

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*Sewer Leaks Editor*

Wendy Wert  
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**Address Changes**

Please contact our Membership Chair, Marge Okabe at (310) 375-0448 or send an email to [labs-membership@earthlink.net](mailto:labs-membership@earthlink.net)

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**SPECIAL EVENTS CALENDAR**

Apr. 24 <sup>th</sup>	Engineers without Borders Chapter Meeting at LADWP <a href="http://www.ewb-la.org/meetings.htm">http://www.ewb-la.org/meetings.htm</a>
Apr. 26 <sup>th</sup>	LABS Officer Installation Banquet contact <a href="#">Pei-Chin Low</a>
Apr. 30 – May 10	Water for People 2 <sup>nd</sup> Annual Virginia Peninsula Campaign Newport News, VA <a href="http://www.waterforpeople.org/local_events.html">http://www.waterforpeople.org/local_events.html</a>
May 13 - 16	WEF Specialty Conference Collection Systems 2007 Portland, Oregon <a href="http://www.wef.org/">http://www.wef.org/</a>
May 15 & 17	CWEA Specialty Chemicals of Emerging Concern Martinez and Van Nuys <a href="http://e-bulletin.cwea.org/calendar.cfm">http://e-bulletin.cwea.org/calendar.cfm</a>

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