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Call for Abstracts

ABSTRACTS ARE REQUESTED
 FOR
 CWEA's 83RD ANNUAL CONFERENCE – "ONE WATER ONE WORLD"
 APRIL 12-15, 2011
 ONTARIO CONVENTION CENTER, ONTARIO, CALIFORNIA

FINAL DATE TO SUBMIT ABSTRACTS IS AUGUST 30, 2010

FOR SUBMITTAL INSTRUCTIONS, SAMPLE ABSTRACTS AND ONLINE FORM,
 VISIT www.cwea.org/conferences

~ ONLY ABSTRACTS SUBMITTED VIA ONLINE FORM WILL BE CONSIDERED ~

SUGGESTED TOPICS

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FOR QUESTIONS REGARDING THE PROGRAM:

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CWEA Pump Station Optimization Electrical & Instrumentation Training

By Wendy Wert

In May 2010, the California Water Environment Association (CWEA) presented specialized Electrical and Instrumentation (E&I) training at four locations across the State of California. The seminar was held in: Fresno on Tuesday, May 4, 2010, Eureka on Thursday, May 6, 2010, Riverside on Tuesday, May 11, 2010 and Vacaville on Thursday May 13, 2010.

Featured Speaker, Bruce Borders of Control Systems West, provided training on Electrical Controls and Instrumentation of the type that are typically found at Pump Stations. Record numbers of CWEA attendees were presented with detailed training modules related to the selection of control schemes that optimize operations at sewage and stormwater pump stations. Operators, Maintenance Personnel, Design Engineers, Facility Managers and Supervisors were in attendance at the training sessions. The program was structured to add to the knowledge and skills of station operators and maintenance personnel, as well as provide improved personnel performance, along with financial and safety benefits.



Richard Watts, Brian Peck and Attendee (It) Trainer Bruce Borders with Attendees in Riverside

Bruce Borders, a registered electrical engineer, has been engaged in E&I training since he was a child. During one of the session breaks, Bruce shared that his father, Richard Borders built circuits with him for family recreation while he was growing up. Both Richard and Bruce have spent the bulk of their esteemed careers with Control Systems West, Inc. Bruce is a talented trainer with the ability to simplify complex systems into their key components. His experience includes all aspects of control configurations related to wastewater treatment systems. Bruce is particularly adept at hands-on operational troubleshooting, which leads to improved system performance and simplified operational interfaces. Since 2004 Bruce has served as the President of Control Systems West, Inc. In that capacity he has been actively involved with many professional societies including: CWEA, HWEA and AWWA. In addition, Bruce has been a leader in many related organizational functions and training sessions. Control Systems West, Inc. is best described as a Systems Integrator, which designs, manufactures and services a broad range of specialized municipal and industrial control equipment.

Bruce began the session by reviewing the pump station operational objectives. The first goal is to maintain the proper wet well level, pumps are turned on or off based on rising wet well level compared to the system set point. The station must also be provided with station status and alarm annunciation, which includes both local identification of alarm status and remote notification of station alarms. In addition, a good pump station configuration must include back-up operation strategies and redundancy.

Bruce used an innovative approach to review the pump station power distribution single line detail by breaking the diagram into its individual components, explaining the function and implications of each then returning to the single line diagram to assess the system connections. Using this method, basic control was reviewed in detail. For example the first module looked at the power components of a typical pump station which include: the utility service panel, the automatic or manual transfer switch, the generator receptacle, the main circuit breaker, the motor circuit protector (MCP), 3 phase power monitor, transient voltage surge suppressor (TVSS), and distribution panel. The incoming utility service provides utility metering and main circuit protection. The next component of the single line diagram, the motor control center (MCC) disconnect provides additional circuit protection and the ability to Lockout and Tag Out in order to safely service system components. The next component the alternate power source is connected via a power transfer switch. Bruce explained that power is provided in sine waves and that a delayed transition, which allows the transfer to pause in the neutral position, is recommended in order to sync the sine waves. This can be an issue when transferring from auxiliary power back to the utility power source. If the phase rotation is backwards then your pumps will run backwards, which is a less efficient operational configuration.



Speaker Bruce Borders (lt), 3 Phase Power Monitor (ctr), Attendees in Riverside (rt)

These specialty seminars trained 160 CWEA members on optimizing pump station operations across the state of California. These Specialty Conferences fall under the Electrical/Mechanical Maintenance & Safety, Water/Wastewater training type. This type of training is approved for the CWEA Recertification Requirement in the following categories: (1) Collection System Maintenance – CSM (2) Environmental Compliance Inspector – ECM (3) Plant Maintenance – PM (4) Mechanical Technologist – MT (5) Electrical/Instrumentation – E/I (6) Operator – OP and (7) Biosolids Land Application Management – BLAM. This training opportunity contributed to CWEA's mission to train and disseminate technical information to wastewater professionals committed to keeping California's water clean.

CWEA TCP Environmental Compliance Inspector Exam Grades 1 ~ 4 Study Session

Wednesday July 14, 2010 from 4-7 pm

Los Coyotes WRP
16515 Piuma Av
Cerritos, CA 90703
(upstairs in the lunchroom of
the Maintenance Building)

All aspects of all four grades of the Environmental Compliance Inspector Exam will be reviewed; special emphasis on math problems.

No fee or formal sign-up is required however an email to Bill Garrett is highly recommended.

Bill Garrett, Supervising IW Inspector
Los Angeles County Sanitation Districts
(562) 908-4288 extension 2907; bgarrett@lacsod.org

LABS YP Event - Bixby Marshland Tour *By Matthew Copeland, LACSD*



On May 25, the CWEA LABS Young Professionals toured the Bixby Marshland in Carson. Mary Jacobs of LACSD (shown left) started the tour by briefly explaining the background of the marsh. Historically, the current Bixby Marshland was part of a larger freshwater marshland called the Bixby Slough. Over time, development encroached into the slough and cut off its water supply. The overall health of the marsh declined. In the mid 1970s LACSD and the Los Angeles County Department of Public

Works agreed to protect a portion of the slough from future development. A pump was installed to supply water from the adjacent Wilmington Drain to the Bixby Marsh. In the late 2000s, rejuvenation efforts took place to restore native plants and increase the overall health of the marsh. On July 16, 2009, after \$2.3 million in construction costs, the Bixby Marshland had its grand opening.



After the introduction by Mary Jacobs, the fervent Rupam Soni of LACSD (shown left) guided the young professionals throughout the marshland trails. Rupam discussed the unique aspects of the Bixby Marsh, which consists of open water, wetlands, riparian, uplands and meadowlands. In addition, the marsh now boasts educational and viewing areas with trails, informative signs, shade structures, benches, bridge overlook, a demonstration garden and a parking lot. According to a biological survey, performed in 2009, there are 105 different plants, 64 species of birds, a fish, two mammals, a frog and two reptiles.

Bixby Marshland is open to the public on the first Saturday of each month from 8 a.m. to 12 noon and by appointment. Volunteers are needed to lead guided tours to help Bixby Marshland become a fun, educational place. To volunteer or to visit, please contact Rupam Soni at (562) 908-4288 extension 2303 or at rsoni@lacs.org.

After the tour, the YPs headed to El Paso Cantina for some social time, where lucky winner Nicole You (shown right) won the gift card door prize. To attend the next YP event, or to win the next door prize, watch out for announcements on upcoming events.



Monitoring Los Angeles County's Stormwater

Thursday, July 22 | 6:00 mixer |
6:30 dinner | 7:00 presentation

Oliver Galang, PE, with the LA County Flood Control District will describe their existing NPDES Stormwater Program and their efforts to modernize and expand into a countywide water quality monitoring system. 0.5 CWEA contact hour.

MENU

Buffet Dinner

A wide selection of chicken, beef, and vegetable dishes. No host bar.
\$30 CWEA members, \$35 non-members
\$15 student/retired

RSVP

RSVP by July 16th please:

wwert@lacs.d.org

Email preferred

or call Wendy Wert

(562) 908-4288 ext. 2128

SITE

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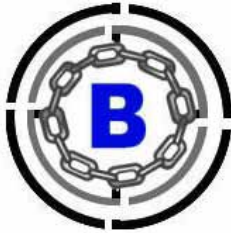
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Young Professionals:	Amanda Schmidt	(310) 566-6460
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Southern CA Rep:	Debra Bogdanoff	(562) 908-4288 x-2734

SPECIAL EVENTS CALENDAR

July 14 th	CWEA TCP ECI Exam Study Session; Cerritos; bgarrett@lacsdsd.org
July 14 th	Co-Digestion of Organic Wastes at Wastewater Treatment Plant; WEF Webcast; http://www.wef.org/CoDigestionWebcast/
July 22 nd	LABS July Dinner Meeting; Alhambra; wwert@lacsdsd.org
August 28 th	LABS Past-Presidents' Event; Long Beach; TitusH@bv.com
Sept 28 th ~ 30 th	CWEA Tri-State Seminar; Primm, NV; http://www.tristateseminar.com/information/program/
Oct 2 nd ~ 5 th	WEFTEC 2010; New Orleans, LA; www.weftec.org/

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