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LABS Annual IW Facility Tour will be held October 21st or
 28th, watch the website for final date and location.

AAEE Seminar Chesapeake Bay: Past, Present, Future

By Wendy Wert

On January 29, 2010 the American Academy of Environmental Engineers (AAEE) presented a seminar titled *Chesapeake Bay: Past, Present, Future* at the Metropolitan Washington Council of Governments Headquarters in Washington D.C. This location provided an exceptional venue for this timely issue. In May 2009, President Obama signed an executive order, which accelerates compliance schedule and increases non-compliance penalties. In September 2009, EPA responded by announcing its intent to establish comprehensive Total Maximum Daily Loads (TMDLs) for the Chesapeake Bay. Moderator, Timothy Shea, introduced the first keynote speaker, Dr. Clifford Randall, Emeritus Professor of Environmental Engineering at Virginia Tech, charter member of the Scientific and Technical Advisory Committee (STAC) of the Chesapeake Bay program. Dr. Randall has served on STAC for 21 years, he first introduced Biological Nutrient Removal (BNR) to the Chesapeake Bay watershed in 1984.



View of the Capitol Building (lt), Attendees network (ctr lt), Joe Cavarretta (ctr rt), Cecil Lue-Hing (rt).

Dr. Randall presented *25 Years of BNR and ENR Implementation in the Chesapeake Bay Watershed and a Look to the Future*. The discussion began by identifying nutrient addition as the major cause of water quality decline in the Chesapeake Bay. Nutrients cause excessive growth followed by eutrophication. Dr. Randall provided illustrative examples of the complexities of the situation. Contributions of the limiting nutrients are source dependent; point sources tend to be higher in phosphorus, while non-point sources tend to be higher in nitrogen. Dr. Randall asked a compelling question, “Is the Bay nitrogen or phosphorus limited?” The omnipresence of P has resulted in N becoming the limiting nutrient in estuaries and coastal ocean waters throughout North America and around the world during much of the annual growing seasons. Reduction of nitrogen inputs accomplishes reduced eutrophication until phosphorus is limiting.

Dr. Randall then described the progression of treatment technologies that have been applied to remove nutrients from point sources. In the 1970’s wastewater engineers relied on a three stage treatment system for nitrogen removal, this included nitrification, followed by denitrification and post aeration. This three-stage process resulted in huge costs for plant retrofits, so lower cost alternatives were pursued. In the 1980’s chemical precipitation using Fe, Al or Ca was applied at treatment plants in the primary clarifier, the activated sludge process, the tertiary precipitation process, or the effluent filtration process. Each method proved effective at nutrient removal, however, all resulted in large increases in waste sludge production and associated solids handling and chemical costs. Then in the 1980’s, an

economical nitrogen removal system was identified, the Modified Ludzak-Ettinger (MLE) process. This configuration consists of nitrification (aerobic conditions DO as the electron acceptor) followed by denitrification (anoxic conditions NO_x as the electron acceptor and COD as the carbon source). This biological approach uses wastewater COD for the organic carbon source. A configuration for biological phosphorus removal was also identified. This A/O process requires anaerobic (VFAs are available) and aerobic sequencing of the activated sludge process. These were then combined into the single-sludge combined EBPR and biological nitrogen removal plug-flow activated sludge BNR process configuration (A2/O) which contains an anaerobic reactor (RAS is added upstream), followed by an anoxic reactor (internal recycle containing nitrates is added upstream), followed by an aerobic reactor and a clarifier. BNR was first introduced to the Chesapeake Bay Watershed in 1984. From 1990 through 2000 BNR retrofit designs have been developed for greater than 100 wastewater treatment plants in the Chesapeake Bay Watershed using funding from the Chesapeake Bay Program.



Timothy Shea (lt) Speaker, Dr. Clifford Randall (ctr lt) Speaker Richard Batiuk (ctr rt) attendees (rt)

Moderator, Timothy Shea, continued by introducing the final keynote speaker, Richard Batiuk, the Associate Director for Science, U.S. EPA, Chesapeake Bay Program Office. During his 24 years with the EPA and the Chesapeake Bay Program, Mr. Batiuk has led the integration of science into consensus decisions involving diverse stakeholders. Mr. Batiuk gave an update on his current focus, which is the development of a six-state, basin-wide TMDL. Mr. Batiuk gave a presentation titled *The Chesapeake Bay TMDL: Restoring Local Water and the Chesapeake Bay*. The discussion began by identifying the complex geometry as a major hurdle to achieving water quality goals. The Chesapeake Bay watershed is the largest estuary in the United States. This 64,000 square mile region borders six states, it consists of 10,000 miles of shoreline, which is longer than the entire west coast. The average depth is 21 feet. The watershed supports a population of 17 million people and over 3,600 species of plants, fish and other animals. This vast region experiences low to no dissolved oxygen in the Bay and tidal rivers every summer. The EPA has developed a comprehensive plan to reduce nutrient loadings to the bay using a science based approach. One tangible outcome of this process is the development of the Phase 5 Bay Watershed Model. The major components of EPA's plan are to develop watershed implementation plans, establish Bay TMDLs, set 2-year milestones, monitor progress, and employ federal actions or consequences of non-compliance.

Mr. Batiuk concluded by stating the Bay TMDL will take action to clean and protect local waters thereby benefiting local economies, restore a thriving Chesapeake Bay, provide a forum for federal, state, and local government accountability to the public, and result in consequences for inaction or a lack of progress.



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Glendale Civic Auditorium • 7:30-3:30 • 4 CEUs

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NOV. 4 • GLENDALE



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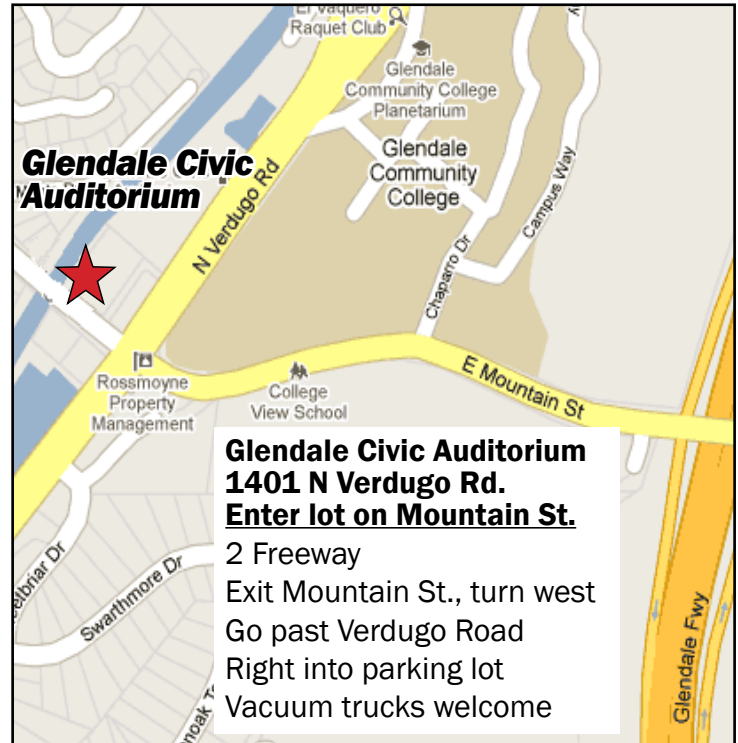
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Time	Manager/Supervisor Track (anyone welcome) Chair: Michael Flores, LABS Host: TBD	Hands-On Certification Track (taught with the test in mind) Chair: SSCSC Host: SSCSC
7:30-8:45	Registration, exhibitor booths and vendor training	
8:45am	Welcome from host city – Stephen M. Zurn Director of Public Works, City of Glendale	
9:00-10:00	What the SWRCB Looks for During an Audit – Jim Fischer SWRCB SSO Program. <i>Submit your audit questions for Jim ahead of time to: mflores@rmcwater.com</i>	Safety – Vacuum truck safety / PTO – Rick Lewis
10:00	Break - exhibitor booths	
10:30-11:30	Case Study: Initiatives the City of LA Implemented to Achieve 75% SSO Reduction – Barry Berggren , City of LA Bureau of Sanitation	Hands-on SSO estimating with live overflow demonstration – John Hicks , City of Glendale
11:30-1:00	Lunch, exhibitor booths and vendor training	
1:00-2:00	Lessons Learned from Region 2 Collection System Enforcement Actions – Michael Flores , RMC Water	Nozzle Technology and Cleaning Techniques (Hands-on – Outdoor) – Duane Johnson
2:00-3:00	Using SSMP Audit Process to Improve Your Operation. – John Walker , LA County DPW	Rodders - Tim Kennedy
3:00-3:30	Door prizes!	



Attendee Registration

NAME:	
AGENCY:	
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PHONE	
EMAIL	
\$55 CWEA members; \$65 non-members includes lunch. Sorry no credit cards. Prepayment is needed - thanks! >> Checks payable to: LABS of CWEA <<	
MAIL FORM AND CHECK TO:	Chris Mote MWH 618 Michillinda Ave., Ste 200 Arcadia, CA 91007
MULTIPLE ATTENDEES? LIST FIRST & LAST NAMES HERE OR ON BACK	

Vendor Registration

NAME:	
EXHIBITOR COMPANY:	
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PHONE	
EMAIL	
\$150 Table and chairs, 2 lunches (extra lunch \$20 each) \$250 Rolling stock, table and chairs, 2 lunches >> Checks payable to: LABS of CWEA <<	
# Booths?	# of EXTRA lunches?
DON'T FORGET! Please attach your business card to your door prize!	
MAIL TO:	Chris Mote MWH 618 Michillinda Ave., Ste 200 Arcadia, CA 91007
7:00am set-up, enter on Mountain St., we will guide you.	

Questions? Volunteers?

Attendees or volunteers:
Alec Mackie, alecm@jwce.com, (714) 428-4614
Speakers:
Michael Flores, mflores@rmcwater.com, (310) 566-6464
Exhibitors:
Jim Aanderud, jaanderud@AOL.com,



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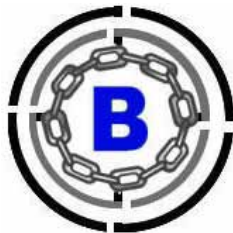
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SPECIAL EVENTS CALENDAR

Oct 2 nd ~ 5 th	WEFTEC 2010; New Orleans, LA; www.weftec.org/
Oct 21 st or 28 th	LABS IW Facility Tour; Watch email for event details; www.labsocwea.com/
Oct 27 th	Northern Regional Safety Training Day; Woodland; http://www.cwea.org/conferences
Nov 3 rd	LA's Collection Systems Training Day; Glendale; http://www.labsocwea.com/
Nov 18 th	CWEA Specialty Workshop; QA/QC for Wastewater Laboratories: Fundamentals and Guidance; Van Nuys; www.cwea.org/conferences

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