Speaker Bio:

Tim Dohman Graduated cum laude from University of Southern California with a Bachelor of Science degree in Biological Sciences where he directed Individual Laboratory Research (499XL) and Graduate level courses (500 series) for his B.S. degree.

Tim received his start in water chemistry at Nalco Chemical as a Laboratory Technician in their California certified Water and Product support laboratory. He then went into petroleum chemistry at what is now the Valero refinery in Wilmington, California. While at Valero, Tim was involved with the major expansion of the laboratory and refinery. Leaving as a Chief Lab Tech, the laboratory had 6 Carle gas chromatographs (each Carle contained 6 columns with valve switching, some columns were flow through, some backflush), 5 HP gas chromatographs for simulated distillations, 2 Varian atomic absorption spectrophotometers (1 dedicated flame, 1 dedicated graphite furnace), total organic carbon analyzer, total organic nitrogen analyzer, X-ray Fluorescence analyzer, and a Research and a Motor Knock engine (determines octane number of gasoline).

Later, Tim returned to water chemistry at the Lake Arrowhead Community Services District as the Laboratory Director, a position he held for 25 years.

Tim retired in April 2011 while still holding a current certification as a CWEA Grade IV Laboratory Analyst, a Grade II Wastewater Treatment Plant Operator, a Grade 1 Water Distribution Operator. Currently Tim is an Engineer-in-Training (EIT) in Environmental Engineering.

Learning Objectives:

Attendees will participate in a comprehensive review of the subjects and analyses most commonly performed in water/wastewater laboratories, including:

- Sampling and Field Analyses
- BOD ~ Alkalinity ~ Laboratory Safety ~ QA/QC
- Microbiological Analyses ~ Data Management/LIMS
- Solids, TSS, TVSS, Percent Solids, Percent Volatile Solids
Laboratory 101: Back to Basics

**Conference Overview:**

Laboratory Technicians, Plant Operators, and Environmental Compliance Inspectors will learn how to perform the sampling and analyses techniques that are essential to evaluating treatment plant performance, optimizing treatment processes, and demonstrating that plant effluent meets established water quality standards. You will be trained on procedures that meet regulatory standards for effluent monitoring as well as procedures to provide reliable data that can be used to make day-to-day process-control decisions.

**Schedule:**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>7:30-8:00am</td>
<td>Registration</td>
</tr>
<tr>
<td>8:00-9:00am</td>
<td>Sampling and Field Analyses</td>
</tr>
<tr>
<td>9:00-9:45am</td>
<td>BOD</td>
</tr>
<tr>
<td>9:45-10:00am</td>
<td>Break</td>
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<tr>
<td>10:00-10:45am</td>
<td>Alkalinity and Volatile Acids</td>
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<tr>
<td>10:45-11:30am</td>
<td>Solids, TSS, TVSS, Percent Solids, Percent Volatile Solids</td>
</tr>
<tr>
<td>11:30am-12:15pm</td>
<td>Lunch</td>
</tr>
<tr>
<td>12:15-1:15pm</td>
<td>Nutrients – Nitrogen/Phosphorus</td>
</tr>
<tr>
<td>1:15-2:00pm</td>
<td>Microbiological Analyses</td>
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<tr>
<td>2:00-2:45pm</td>
<td>Laboratory Safety</td>
</tr>
<tr>
<td>2:45-3:00pm</td>
<td>Break</td>
</tr>
<tr>
<td>3:00-3:45pm</td>
<td>Data Management/LIMS</td>
</tr>
<tr>
<td>3:45-4:30pm</td>
<td>QA/QC</td>
</tr>
</tbody>
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**Southern California:**

**Tuesday, June 4, 2013**

Orange County SD  
10844 Ellis Avenue  
Fountain Valley, CA 92708

&

**Northern California:**

**Thursday, June 6, 2013**

Central Contra Costa SD  
5019 Imhoff Place  
Martinez, CA 94553

**Register for:**

- **Fountain Valley**—Tues. June 4th  
  - Early Bird Member Rate $165  
  - Before May 24th Member Rate $185
- **Martinez**—Thurs. June 6th  
  - Early Bird Regular Rate $235  
  - After May 24th Member Rate $255

**Special Services:** Check here if you require special accommodations to fully participate and attach a written description of your needs.

**Name of School:** (You must attach proof of current school schedule at a college or university with a minimum of 9 units)

**Method of Payment**

- P.O. - Must Be Attached  
- Check - Payable to CWEA 2013 Labs 101
- American Express  
- MasterCard  
- Visa

**Credit Card #**  
Exp. date

**Name on Card**  
Billing Zip code

**Convenient Locations:**

**Southern California:**

**Orange County SD**  
10844 Ellis Avenue  
Fountain Valley, CA 92708

**Northern California:**

**Central Contra Costa SD**  
5019 Imhoff Place  
Martinez, CA 94553

**Written cancellation notice is required, and must be received at least 15 days prior to the conference date. A 25% service fee shall be retained on all cancellations. No refunds shall be given for cancellations made less than 15 days prior to any conference. All fees for conference registration shall be paid in full at the time of pre-registration or on-site registration. Full payment may be made by credit card, personal check or company/agency check. Purchase orders are acceptable and must be attached to the registration form. Registrations received by CWEA without full payment or purchase order will not be processed.**

**CREDIT CARD PAYMENTS MAY BE MAILED TO THE OFFICE OR FAXED TO (510) 382-7810**

Register online at www.cwea.org/conferences

**Conference Overview:**

- Environmental Compliance Inspector (ECI)  
- Laboratory Analyst (LAB)

**Will Earn up to 8.7 Contact Hours!**