Speaker Bio

William Ray has over 16 years' experience in both commercial and government laboratories, 15 years' experience in data quality assessment, and 9 years' experience in assessing laboratories. His laboratory and assessment experiences include all chemistry and radiochemistry analyses.

William is the Owner/President of William Ray Consulting, LLC, a consulting firm specializing in technical and compliance assistance to the environmental laboratory community. He has developed training tools; conducted training, laboratory assessment, and provided assistance in reviewing regulatory compliance from the laboratory perspective and is now in the process of developing self-paced training programs for small laboratories.


William Ray Consulting, LLC has provided training including: “Field Measurements”; “Essential QC Workshop; “2015 Methods Update Rule”; How to Make a Training Video”; and “Adopting Laboratory Methods for the Field”.

Earn up to 6 CWEA Contact Hours

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CWEA Specialty Conferences
7677 Oakport Street, Suite 600
Oakland, CA 94621
Phone: 510-382-7800 ext. 125
Fax: 510-382-7810
Register online at www.cwea.org/conferences

CWEA and its board members and volunteers are not responsible for the actions of speakers or the contents of their papers, and no endorsement is implied or given of any persons or their philosophies, ideas or statements nor of any products or processes, nor of any organizations or companies who volunteer to serve as speakers at the workshop.

CWEA & its Northern Sacramento Valley Section

Laboratory Sample Collection and Field Analyses Practices

Tuesday, January 19, 2016
Redding, CA

CWEA One-Day Specialty Workshop

Brought to you by CWEA and its Northern Sacramento Valley Section
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.

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Credit Card payments may be mailed to the CWEA office OR FAX completed forms to (510) 382-7810

If more than one person from your agency, please photocopy and submit one form for each person.

2016 Laboratory Specialty Workshop Registration Form

<table>
<thead>
<tr>
<th>First Name</th>
<th>Last Name</th>
<th>Name for Badge</th>
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</table>

Agency/Company

Address

City State Zip Code

Attendee Email Address

Phone Fax Number

Emergency Contact Phone

___ Member - CWEA, WEF or CA-NV AWWA Mbr #

(Current membership required for member rates.)

___ Special Services: Please check here if you require special accommodations to fully participate. Attach a written description of your needs.

Tuesday 1/19/2016

Register for:

Early Bird Member Rate □ $110
Before January 7th

Early Bird Regular Rate □ $130
Before January 7th

Member Rate □ $192
After January 7th

Regular Rate □ $212
After January 7th

Method of Payment:

☐ Check “CWEA 2016 Labs”

Discover

Visa MasterCard

American Express

Purchase Order — Must be attached

Credit Card # Exp. date

Name as it appears on the card Billing Zip Code

Signature

If more than one person from your agency, please photocopy and submit one form for each person.

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Who Should Attend:
Laboratory Personnel, Environmental Compliance and Operations.

Approved for CWEA Contact Hours:
• Environmental Compliance Inspector (ECI)
• Laboratory Analyst (LAB)

Workshop Overview:
This one day specialty training session will cover sampling and field analyses. There will be a review and grounding in the basics followed by advanced topics on sampling such as Clean Hands/Dirty Hands, solids and films. Field testing basics and beefing up field testing to rival laboratory testing will follow. Field QA/QC and documentation rounds up the technical side followed by ethics training with a focus on field and sampling activities.

Sample Collection and Field Analyses Practices

<table>
<thead>
<tr>
<th>Topic</th>
<th>Topic overview</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration</td>
<td>Continental breakfast provided</td>
<td>8:00 AM – 8:30 AM</td>
</tr>
<tr>
<td>Introduction</td>
<td>Brief overview of topics and logistics</td>
<td>08:30-08:45 AM (15 minutes)</td>
</tr>
<tr>
<td>Sampling Basics</td>
<td>Purpose of sampling, sample terminology, and legal basis</td>
<td>08:45-09:30 AM (45 minutes)</td>
</tr>
<tr>
<td>Basic Sampling Practices</td>
<td>Fundamentals of sampling, grabs, and composites including manual composting</td>
<td>09:45-10:15 AM (30 minutes)</td>
</tr>
<tr>
<td>BREAK</td>
<td></td>
<td>10:15 – 10:30 AM</td>
</tr>
<tr>
<td>Advanced Sampling Practices</td>
<td>Advanced topics including Clean Hands/Dirty Hands, collection of films and solids, and other non-routine procedures</td>
<td>10:30 – 11:00 AM (30 minutes)</td>
</tr>
<tr>
<td>Field Testing</td>
<td>How to make field testing with instruments and test kits as good as laboratory testing</td>
<td>11:00-11:45 AM (45 minutes)</td>
</tr>
<tr>
<td>LUNCH</td>
<td>Provided by CWEA</td>
<td>11:45 AM – 1:00PM</td>
</tr>
<tr>
<td>QA/QC and documentation</td>
<td>Field QA/QC terms, the world of blanks, preservation/hold time issues. CoCs, SOPs and recording field experiences</td>
<td>1:00-1:45 PM (45 minutes)</td>
</tr>
<tr>
<td>Ethics</td>
<td>Bringing ethics to the field</td>
<td>1:45-2:30 PM (45 minutes)</td>
</tr>
<tr>
<td>Q&amp;A</td>
<td></td>
<td>2:30-3:00 PM (30 minutes)</td>
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Workshop Location:
Northern California
Tuesday, January 19, 2016
City of Redding Corporation Yard
20055 Viking Way,
Building 4
Redding, CA 96003
Questions? Contact Tracy Wyhlidko at: (530) 224-4319