

# WQLAS Nutrient Testing Procedures Workshop

**Announcing:** The WQLAS Nutrient Testing Procedures Workshop to be held in Port Angeles, Washington on November 3<sup>rd</sup>-6<sup>th</sup>, 2009. Class hours will be from 8 am to 5 pm Tuesday through Friday. Directions will be emailed to each applicant.

**Sponsored by:** West Washington Region of PNCWA, the Water Quality Lab Analyst Section (West WA) and Peninsula College.

**Purpose:** Designed for water or waste water technicians, laboratory personnel and other wastewater professionals. The class will demonstrate the proper laboratory techniques for the analysis of chlorine, ammonia, COD, Volatile Acids/Alkalinity, and Fecal Coliform analysis. Prerequisite: One year in a water or waste water laboratory or instructor's permission. Students will receive instruction in interpreting lab results, and assessing effective quality control methods.

**Instructors:** Victor Santa Cruz, Biologist, Inland Empire Utilities Agency, Keith Chapman, City of Salem, Diane J. Lawver, President, Quality Assurance Solutions, LLC, Belinda Pero, Clallam County HHES Lab, Chris Copeland, ManSci Inc., Doug Roy, WaterTrax Inc. and Mark P. McElroy and Adrian Vasquez, ThermoOrion .

**Opportunities:** Upon satisfactory completion of the Laboratory Training Workshop each student will receive 2.0-college credit hours (this equates to 3.0 CEU's). Participants must fill out a student enrollment form that will be handed out at the beginning of the class..

## **Course topics:**

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| ✓ Ammonia Nitrogen-(ISE) Electrode Method  | ✓ Phosphorus-Ascorbic Acid method   |
| ✓ Chlorine Residual- Colorimetric Method   | ✓ Establishing/maintaining effective quality systems                          |
| ✓ Volatile Acids   | ✓ Data quality assessment   |
| ✓ Alkalinity   | ✓ Laboratory Data Management  |
| ✓ COD Analysis using PeCOD COD analyzers   | ✓ Comprehensive Ethics & Integrity for Environmental Laboratory Professionals |
| ✓ Fecal Coliform-Membrane Filtration and IDEXX's defined substrate technology for E Coli and Total Coliform. | ✓ Generating Legally Defensible Sampling and Testing Data                     |

## ***Laboratory Workshop Registration Form***

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Employer's Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

- \$450.00 – WEF/PNCWA Members Membership #
- \$605.00 – Non-member
- \$365.00 – Student Rate (Applicant must show proof of enrollment in a college program)

I am enclosing a check made payable to ***Western Washington WQLAS.***

Purchase orders are accepted.

Signature: \_\_\_\_\_

Operator Level and License number: \_\_\_\_\_

**Mail registration and payment to:  
West WA. Water Quality Lab Analyst Section**

**C/o City of Port Angeles WWTP  
321 East Fifth St.  
Port Angeles, WA 98362**

**Class Size Limit:** Due to the size of the facility, registration will be limited to the first 26 participants. Register early with the Section to ensure your spot and insure you meet the class prerequisites. You may register by fax at 360-417-4841 with an approved purchase order. Call 360-417-4845 for additional information.

**Lodging:** Days Inn Per Diem Room Rates available  
510 East Front Street  
Port Angeles, WA 98362 Phone # 360-452-4015

Guests can go to the [www.daysinn.com](http://www.daysinn.com) web site and book online. Ask for the PNCWA Laboratory Analysis Workshop. The hotel is located on the left between Front and First Street just past McDonalds as you enter Port Angeles on Highway 101.



Dr. Ken Kerri presenting information for Process Control Workshop, March 2009.

