

VWEA
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15TH ANNUAL GOOD LABORATORY PRACTICE CONFERENCE

Presented by the
VA AWWA/VWEA
LABORATORY PRACTICE COMMITTEE

August 3-4, 2009
The Omni Charlottesville Hotel
235 West Main Street
Charlottesville, VA 22902

VA AWWA / VWEA 15TH ANNUAL GOOD LABORATORY PRACTICE CONFERENCE CHARLOTTESVILLE OMNI

The VA AWWA / VWEA Laboratory Practice Committee invites you to the 15th Annual Good Laboratory Practice Conference. This year's conferences will include a full-day technical program, an exhibit hall with 25 exhibitors of laboratory equipment and instrumentation; an exhibitors' reception; and a pre-conference, half-day, hands-on workshop. This conference is designed to provide the latest information on major issues such



as method updates, laboratory accreditation, and new technologies. Attendance is recommended for any environmental professional involved in the analysis of water or wastewater, especially laboratory analysts, laboratory managers, plant operators, regulatory personnel, instrumentation and equipment manufacturers, environmental engineers and environmental compliance managers.

PRE-CONFERENCE WORKSHOPS AUGUST 3

Workshops begin at 8:45 a.m. and 1:30 p.m. Refreshments and lunch will be provided. Three Continuing Professional Education (CPE) credits will be awarded for each workshop.

- **Preparing Your Laboratory for an On-Site Assessment (8:45 AM)**
Pat Conlon, *Environmental Standards*
Laboratory Inspection Deficiencies and Corrective Actions
Kay Smith & Eileen Sanders, *DCLS*
This is a two part workshop discussing what to expect from an on-site assessment. The workshop will cover what to have on hand for the on site inspection, how to prepare by completing checklists and conducting internal audits, review of training files and method validation records, rehearsing & training staff. The second part will cover deficiencies that result in findings during laboratory inspection and corrective actions.
- **Beginner and Intermediate Excel (8:45 AM)**
Chris Lapallo, *Epsilon*
Microsoft Excel is a very powerful tool for processing data and managing information in the laboratory. This workshop is geared to beginning and intermediate users and will focus on understanding the layout and basic features of Microsoft Excel and how to use those features. You will look at several case studies and illustrate the use of cells, formatting, calculations and general layout. Bring your laptop. This is a workshop and we want to make it as hands on as possible.
- **Pipetting Techniques and Preparing Standards (8:45 AM)**
Jim Wilkem, *Wilkem Scientific* & Tom Widera, *ERA*
This is a two-part hands-on workshop. The first half will focus on the many different types of pipets, demonstrate pipetting techniques, the proper technique usage, and calibration procedures for a variety of pipets. The second half of the workshop will focus on the preparation of standards providing guidance on preparing, using and storing reference standards used for a variety of applications in environmental testing laboratories.
- **Advanced Excel (1:30 PM)**
Chris Lapallo, *Epsilon*
Microsoft Excel can be used in the laboratory to capture, process, evaluate, and report laboratory data and information. The functionality of Microsoft Excel will be demonstrated through several case studies involving: spreadsheet calculation, data evaluations and general laboratory documentation, advanced instrumentation calibration data and linear regression, data processing using Excel with Visual Basic, and linking Excel with LIMS database. Bring your laptop; we want to make this as hands on as possible.
- **Microbiology for Water and Wastewater and Certified Microbiology Methods for Drinking Water (1:30 PM)**
Chris Griffin & Jim Schuth, *HACH* & Carmen Hein, *Chesterfield Co. DPU*
This hands-on workshop will introduce water microbiology and various methods for bacterial testing of drinking water and wastewater. Other issues covered in this workshop include proper sampling techniques, QA/QC, regulations for drinking water and wastewater.
- **Basic Instrument Troubleshooting for Specific Methods for GC/GCMS; ICP/ICPMS; Discrete Analyzer; and FIA Units (1:30PM)**
Bob Stevens, *Thermo*, Lori Foligo, *PerkinElmer*, Todd Stephanuik, *Systea*, Nick Mizenko, *Lachat*
Learn basic troubleshooting techniques for GC method 552.2 and GCMS method 524.2, Atomic Absorption EPA method 200.9, ICP EPA method 200.7 and ICPMS EPA method 200.8, run on the Discrete Analyzer and FIA Units. This workshop will provide a better understanding of how these instruments work and how to find, prevent and fix problems with them. Four stations will operate simultaneously, rotating halfway through the workshop. Attendees will be able to participate in two of the instrument presentations.

**15TH ANNUAL GOOD LABORATORY PRACTICE CONFERENCE SCHEDULE
AUGUST 4, 2009**

7:45-10:30 **ON-SITE REGISTRATION**

MORNING

Current Issues and Challenges

- 8:30-8:45 Welcome & Introduction**
(John Allen, VA AWWA/VWEA LPC Chair)
- 8:45-9:15 The NELAC Institute Efforts to Assist Laboratories***
(Pat Conlon, Environmental Standards, Inc.)*
- 9:15-9:45 Introduction to the VELAP***
(Cathy Westerman, DCLS)
- 9:45-10:15 The NELAC Proficiency Testing Program Basics***
(Henry Beauchamp, Wibby Environmental)
- 10:15-10:45 BREAK**
- 10:45-11:15 Virginia's Water Reclamation and Reuse Regulation***
(Valerie Rourke, Virginia DEQ)
- 11:15-11:45 HRSD Water Reuse Efforts***
(Kevin Parkerl, Hampton Roads Sanitation District)

AFTERNOON

Session #1:

- 1:15-1:45 BOD Troubleshooting is Like Peeling an Onion-A Case Study in Eliminating Variables***
(Tabb Justice, CH2M Hill)
- 1:45-2:15 The Use of COD Results to Determine BOD Dilutions at a Wastewater Treatment Plant***
(Kimberlee Stubbs, City of Richmond)
- 2:15-2:45 BREAK**
- 2:45-3:15 How Successful LIMs Selection are Made***
(Tiffany Brown, Accelerated Technology Laboratories)

- 3:15-3:45 Laboratory Information Systems (LIMS) Technology Issues and Associated Costs***
(Bill Moss, Ethosoft, Inc.)
- Session #2:**
- 1:15-1:45 Rapid Toxicity Testing Methodologies***
(Robin Parnell, Hampton Roads Sanitation District)
- 1:45-2:15 Toxicity Testing: A Water Utility's Perspective ***
(James Cherry, Virginia Beach Public Utilities)
- 2:15-2:45 BREAK**
- 2:45-3:15 What is qPCR? An Overview***
(Tiffany Elston, Hampton Roads Sanitation District)
- 3:15-3:45 Advances in the Use of Liquid Chromatography-Tandem Mass Spectrometry in Environmental Analysis***
(John Flaherty, Corporate Environmental Solutions)
- Session #3**
- 1:15-1:45 Development to Achieve Lower Detection Limits (PPT) in Continuous Flow Analysis***
(Stuart Smith, Seal Analytical, Inc.)
- 1:45-2:15 An Effective Method for TKN by Discrete Analysis***
(Jennifer Marland, Microbac Laboratories)
- 2:15-2:45 BREAK**
- 2:45-3:15 Calibration-The Good Curve***
(Greg Hudson, Envirocompliance Laboratories)
- 3:15-3:45 Optical DO Applications- Rugged DO (RDO) Probe Performance in Water and Wastewater***
(Kelly Sweazea, Thermo Fisher Scientific)
- * 0.5 CPE Credits available for presentation**

OTHER INFORMATION

Exhibitors' Reception

An exhibitors' reception will be held on August 3 from 5-7 p.m. in the Exhibit Hall. Come out and meet with the exhibitors and see the latest in laboratory instrumentation and equipment.

Lodging

A limited number of rooms for the **Lab Practice** have been set aside at the Omni in Charlottesville at a special Single/Double rate of \$123 + 11% tax, until **July 13, 2009**. After this date, reservations will be accepted on the basis of space and rates available. **Call the Omni at (434) 971-5500 or reserve your**

room online at www.omnihotels.com/FindAHotel/Charlottesville/MeetingFacilities/LabPractice8.aspx.

Abstracts & Exhibitor Listing

Abstracts for all the presentations can be viewed on the VWEA website (www.vwea.org) or the VA AWWA website (www.vaawwa.org). For additional questions regarding the seminar, please contact John Allen by e-mail at john.allen@fairfaxcounty.gov or by phone at 703-550-9740 x425

Free parking for all attendees.

**15TH ANNUAL VA AWWA /VWEA
GOOD LABORATORY PRACTICE SEMINAR AND WORKSHOP
REGISTRATION FORM**

Name: _____

Title: _____

Organization: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone: _____ Fax: _____

E-mail (for registration confirmation): _____

Workshop (Limited Registration): \$85 (Members) \$95 (Non-members) \$ _____

Select your 1st & 2nd choice for workshop session in each time period:

8:45 AM: ___ Preparing Your Laboratory ___ Beginning and Intermediate Excel ___ Pipetting Techniques

1:30 PM: ___ Advanced Excel ___ Microbiology ___ Instrument Troubleshooting

Seminar (registration before July 13, 2009): \$90 (Members) \$100 (Non-members) \$ _____

Seminar (registration after July 13, 2009): \$100 (Members) \$110 (Non-members) \$ _____

Total: \$ _____

I will be attending the exhibitors' reception on the evening of August 3: ___ yes ___ no

Payment Information

Payment must accompany the registration form. Please make checks payable to **VWEA**. Registration forms postmarked after **July 13, 2009**, will be accepted and processed at the on-site rate. **Purchase Orders will NOT be accepted.** Request for refund must be submitted in writing by **July 27, 2009**. Requests after this date will not be accepted.

VWEA or AWWA Membership #: _____

Credit Card #: _____ Security Code _____ Exp. Date: _____

Card Type: VISA ___ MC ___ AMEX ___ Disc ___ Name on Card _____

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Return to: Sherry Williams, Newport News Waterworks, 3629 Geo.Washington. Mem. Hwy., Yorktown, VA 23693
Fax: 757-234-6716 or 757-234-6711 E-mail: sherrywilliams@nngov.com

Federal Americans with Disabilities Act (ADA) :

Please indicate below any disabilities that you may have which will require special arrangements by the hotel or the Associations to allow you to fully participate in this seminar and workshop.

Disability: _____

Special Arrangements: _____