Dear Colleague:

Virginia Tech in cooperation with the Virginia Department of Health is offering a series of workshops titled, “Continuing and Professional Education for Water Utility Owners, Managers, and Operators.” The date and topic for the upcoming workshop is provided below:

**October 19, 2016**

*Water Distribution Systems: How Preventative Maintenance is Asset Management*

Please see the enclosed description of the workshop. This workshop focuses on issues that can directly affect the performance of every waterworks. Your Virginia Department of Health with the assistance of federal funding is making this program available to you at NO COST.

Workshops will be broadcast simultaneously to the locations identified on the enclosed “CPE Workshop Registration Form.” Through the use of interactive technology you will have the opportunity to engage in discussions and to ask specific questions of the presenters and participants around the Commonwealth. Each workshop will begin promptly at 12:00 p.m. and conclude at approximately 3:00 p.m.

You will receive a notebook with material that is presented in the session. This resource can be used again and again as a reference in your daily work. You will also receive 0.3 CEUs (Continuing Education Units) for successful completion of the workshop.

To ensure your FREE participation in the workshop, please complete the enclosed “CPE Workshop Registration Form” and return it two (2) weeks in advance of the workshop. Please return to Conference Registrar, 702 University City Blvd, Mail Code 0272, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061. You may also register on-line at [http://www.cpe.vt.edu/cpewater](http://www.cpe.vt.edu/cpewater) or by calling the conference registrar at (540) 231-5182 or fax (540) 231-3306.

We look forward to your participation. We will continue to keep you notified of upcoming workshops throughout the year as they are scheduled.

**Wayne Crotto**  
Project Manager, Continuing and Professional Education

**Gregory D. Boardman, Ph.D., P.E., DEE, F.ASCE**  
Professor, Via Department of Civil and Environmental Engineering
Course Description:

Water distribution systems can be the last barrier in making sure the water delivered to the customer is safe to drink. Also a water distribution system should deliver high fire flow to protect residents and structures. These piping and storage systems are designed to meet fire flow requirements. Yet, in the United States, the more than one million miles of pipe buried underground is approaching the age at which it needs to be replaced.

This presentation will present how the operator of a water distribution system can use routine procedures such as unidirectional flushing, valve exercising, hydrant maintenance and inspections/ documentation of water main breaks and water quality complaints to meet the goals of delivery safe water, meeting fire flow and planned replacement of the infrastructure.

Biographical Sketch:

Jim Cherry is the Water Operations Manager for the City of Virginia Beach Public Utilities. He has been at Virginia Beach for 15 years and is responsible for the operation and maintenance of the water distribution system, pump stations, storage tanks, metering, SCADA and bacteriological laboratory. Prior to that, Jim worked for an environmental consulting firm on water and wastewater projects throughout the Southeast. He started his career as a wastewater treatment plant manager for a wastewater authority in Virginia. He received a Bachelor’s Degree in Civil Engineering from Virginia Tech, a Master of Engineering from Old Dominion University and Doctor of Science in Technology from Technion- Israel Institute of Technology.
September 2, 2016

Dear Colleague:

Virginia Tech in cooperation with the Virginia Department of Health is offering a series of workshops titled, “Continuing and Professional Education for Water Utility Owners, Managers, and Operators.” The date and topic for the upcoming workshop is provided below:

November 16, 2016

Navigating Through the Language and Concerns of Emerging Contaminants

Please see the enclosed description of the workshop. This workshop focuses on issues that can directly affect the performance of every waterworks. Your Virginia Department of Health with the assistance of federal funding is making this program available to you at NO COST.

Workshops will be broadcast simultaneously to the locations identified on the enclosed “CPE Workshop Registration Form.” Through the use of interactive technology you will have the opportunity to engage in discussions and to ask specific questions of the presenters and participants around the Commonwealth. Each workshop will begin promptly at 12:00 p.m. and conclude at approximately 3:00 p.m.

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We look forward to your participation. We will continue to keep you notified of upcoming workshops throughout the year as they are scheduled.

Wayne Crotto
Project Manager, Continuing and Professional Education

Gregory D. Boardman, Ph.D., P.E., DEE, F.ASCE
Professor, Via Department of Civil and Environmental Engineering
Navigating Through the Language and Concerns of Emerging Contaminants

Greg Boardman

November 16, 2016

Course Description:

In recent years, the quality of our drinking waters has come under unsurpassed scrutiny by the public due to accidents, new regulations, and a greater general awareness of the issues due to social media. Waterworks owners, operators, and supervisors are increasingly aware that they need to think more broadly about the possibility of accidents, emergency responses, and communications with their local community. It is not necessarily enough to meet state and federal regulations, because the public is skeptical that the regulations do not adequately address the Contaminants of Emerging Concern (CECs), such as pharmaceuticals and personal care products, endocrine disrupting chemicals, and nanomaterials. In this lecture, participants will be introduced to several terms and abbreviations that are used in connection with emerging contaminants, the basics of toxicology, and the chemistry of a few selected contaminants.

Biographical Sketch:

Dr. Gregory Boardman is Professor of Civil and Environmental Engineering and Director of the Annual Short School for Treatment Plant Operators at Virginia Tech. Dr. Boardman is a Fellow of the American Society of Civil Engineers (F.ASCE), licensed as a professional engineer (P.E.) in Virginia, a Diplomate of Environmental Engineering (DEE), and a Diplomate of Water Resources Engineering (D.WRE). He performs research and teaches courses in the areas of environmental engineering principles, water and wastewater treatment processes, industrial and hazardous waste management, and environmental toxicology. Since joining the Virginia Tech faculty in 1976, Dr. Boardman has served as an engineering consultant to more than 35 agencies and companies, been the principal or co-principal investigator for more than 150 funded research projects, and published more than 175 papers and reports in the environmental area. He currently serves on two advisory committees for the Virginia Department of Health and the Board of Directors for the New River Valley Regional water Authority.
Conference Registration Form
Continuing and Professional Education for Water Utility Owners, Managers, and Operators:

- **Water Distribution Systems: How Preventative Maintenance is Asset Management**
  - October 19, 2016 (568789)

- **Navigating Through the Language and Concerns of Emerging Contaminants**
  - November 16, 2016 (568790)

*Please print or type—complete a separate form for each participant*

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Do you operate a Class V or Class VI facility?  □ Yes  □ No

**Please check your preferred program location:**

- □ Blue Ridge Community College (BRCC)
- □ Eastern Shore Community College (ESCC)
- □ Franklin Center (FC)
- □ Hampton Roads Center (HRC)
- □ Marion duPont Scott Equine Medical Center (MDSEMC)
- □ Northern Virginia Center (NVC)
- □ Old Dominion University Peninsula Higher Education Center (ODUPHEC)
- □ Richmond Higher Education Center (RiHEC)
- □ Roanoke Higher Education Center (RoHEC)
- □ Southern Virginia HEC (SVHEC)
- □ Southwest Virginia Higher Education Center (SWVHEC)
- □ University of Virginia (UVA)
- □ Virginia Tech (VT)

Return form by **two weeks prior to the workshop**

*(no staples, tape, or paper clips, please)* to:

Conference Registrar
Continuing and Professional Education
Virginia Tech, Mail Code 0272
702 University City Blvd.
Blacksburg, VA 24061

phone: 540/231-5182
fax: 540/231-3306

For weather or disaster-related program cancellation or postponement information, please call 540-231-9489.

In the unlikely event that this program is cancelled or postponed due to insufficient enrollments or unforeseen circumstances, the university cannot be held responsible for any related expenses, including cancellation or change charges assessed by airlines, hotels, travel agencies, or other organizations.

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The information you provide is subject to the Freedom of Information Act guidelines.