

About this Seminar

In February 2008, the Contaminant Candidate List 3 (CCL 3) identified 104 contaminants out of a universe of 7,500 potential chemicals and microbial pathogens. The speakers at this seminar will address the recent draft of the EPA's Contaminant Candidate List which includes a significantly new process for evaluation of new contaminants being considered for new regulation. The significance of the CCL3, the CCL process and its potential impact to the drinking water purveyors and community of professionals will be addressed.

Who Should Attend?

The seminar is intended to provide information that is of value for those involved in public water supply. Five Continued Professional Education Hours (CPE's) will be issued to attendees. It will be of interest to:

- Utility Managers,
- Consulting Engineers,
- Waterworks operators,
- Laboratory personnel,
- Regulatory personnel,
- Public Health Officials,
- Researchers,
- Students, Professors, and Academic community involved in drinking water.

Registration

AWWA Member Fee: \$150.00*
Non-Member Fee: \$200.00**
Full-time Student Fee: \$50.00

*Employees of member utilities may register at the member rate.

**\$50.00 non-member differential fee may be applied toward membership.

All registrations should include payment.

To register by mail or fax, complete the form on the following page and include either a check payable to **VA A WW A** or your credit card information as indicated on the form (VISA, MasterCard, and American Express are accepted). Mail or fax your registration to the address shown on the form. You may also use your credit card to register online at www.vaawwa.org

For More Information on Registration

Contact: Laura Tweedle or Kirk Cole at (757) 431-1002, kcole@mckimcreed.com,

or

Don Pannell, (703) 335-7980,
dpannell@pwcsa.org

Time and Place

The seminar will be held at the Jepson Alumni Center on the campus of the University of Richmond, in Richmond, V A. To reach the Jepson Alumni Center (JAC): From I-95 take I-64 W (towards Charlottesville) to exit 183/Glenside Dr. South. Continue South on Glenside Drive (Glenside Drive becomes Horsepen Road). Make a left onto Three Chopt Road, continue until you come to Boatwright Drive, make a right onto Boatwright, and proceed until you reach College Road, where you will bear right. Stay on College Road until you reach Crenshaw Way, turn left, and follow the signs to JAC. The program will begin at 8:50 a.m., with registration and check-in beginning at 8:00 a.m. Your registration includes a luncheon at the seminar site. The luncheon and breaks will provide an opportunity to meet with those from other organizations and the seminar speakers.

Drinking Water Contaminant Candidate List 3 (CCL3): How we got 104 selected candidates for the draft CCL3 from approximately 7,500 chemicals and microbes

Jepson Alumni Center at the University of
Richmond, Virginia
October 20, 2008

AMERICAN WATER WORKS ASSOCIATION (AWWA)

VIRGINIA SECTION



RESEARCH COMMITTEE SEMINAR

Research Committee
VA-AWWA
P. O. Box 55420
Virginia Beach, Virginia 23471-9420

DRINKING WATER CONTAMINANT CANDIDATE LIST 3 (CCL3)
JEPSON CENTER – RICHMOND, VIRGINIA
OCTOBER 20, 2008

**REGISTRATION FORM
RESEARCH COMMITTEE SEMINAR
University of Richmond-Jepson Center
Richmond, Virginia
October 20, 2008**

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**Mail or fax Check or Credit Card Information,
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**Research Committee Seminar P.O. Box 55420
Virginia Beach, VA 23471-9420 (757) 363-1760
Fax (757) 363-1720 cathy.larue@vaawwa.org**

-OR- Register online at www.vaawwa.org

SEMINAR SCHEDULE

- 8:00 Registration**
- 8:50 Introduction & Welcome**
- 9:00 EPA Over view of the Draft CCL3,
Tom Carpenter**
- 9:45 AWWA's Perspective on the Draft
CCL3, Allan Roberson**
- 10:30 Break**
- 10:45 USGS Investigation of Contaminants
in our environment. Ken Hyer**
- 11:30 Lunch**
- 12:45 Can Treatment and Occurrence
Research Keep up with the CCL
Process? The Case of DBPs and
PPCPs. David Reckhow**
- 1:30 Application of Ozonation Process for
the Destruction of Active
Pharmaceutical Ingredients (APIs) in
Water. Rominder Suri**
- 2:15 CCL3/PPCP/EDC – What can we
REALLY say? Jeanne Bailey**
- 3:00 Closing Remarks**

SPEAKERS

Thomas Carpenter is the Team Leader of the Candidate Contaminant List 3 Program in EPA's Office of Ground Water and Drinking Water and holds a B.S. in Biology from George Mason and a M.S. in Environmental Science and Engineering from Virginia Tech. He has over 20 years of experience in environmental science, policy, and data analysis in government and the private sector. **Abstract:** Overview of the Draft Third Contaminant Candidate List: This presentation provides an overview of the methods and information used to characterize and select contaminants considered for the CCL 3. The Draft CCL 3 considered approximately 7,500 chemical and microbial contaminants to identify those that

may require a National Primary Drinking Water Regulation.

J. Alan Roberson is currently the Director of Security and Regulatory Affairs for AWWA. He and his technical staff work closely with EPA staff on the development of national drinking water regulations and with DHS on the development on national water security policy. He has been with AWWA for 17 years and has 12 years consulting engineering experience.

Abstract: AWWA's Perspective on the Draft CCL3. This presentation will summarize AWWA's comments on the Draft CCL3. AWWA's general policy comments on such issues as the appropriate number of contaminants and research needs will be discussed. AWWA's chemical occurrence and toxicity charts and microbial decision trees will be also be discussed.

Ken Hyer, PhD serves as a Hydrologist and Water-Quality Specialist for the U.S. Geological Survey Virginia Water Science Center. He holds a PhD in Environmental Science from the University of Virginia. Research interests include the watershed-scale processes that control the fate and transport of contaminants in both surface water and groundwater.

Abstract: USGS Investigation of Contaminants in our environment. The USGS is collaborating on a number of studies to better understand the occurrence, fate, and effects of emerging contaminants, including endocrine disrupting compounds as well as pharmaceuticals and personal care products. An overview of several studies is presented, with emphasis on how these compounds relate to drinking water supplies and the CCL3.

David Reckhow, PhD has been on the Faculty of the University of Massachusetts since 1985, where he is currently Professor of Civil & Environmental Engineering. From 2002 to 2005, he served as Director of the University Mass Environmental Institute. Dr. Reckhow's research interests include natural organic matter, chemical oxidation, coagulation, and analytical methodology especially as applied to drinking water.

Abstract: Can Treatment and Occurrence Research Keep up with the CCL Process? The Case of DBPs and PPCPs. The CCL process depends on our ability to measure new contaminants with a high degree of

accuracy, sensitivity and reliability. It also requires an ability to test for and interpret removal efficiencies and sometimes formation under a wide range of conditions. Among the universe of chemicals, the disinfection byproducts, and the pharmaceuticals & personal care products pose some special challenges.

Rominder Suri, PhD, PE is the Director of Villanova Center for the Environment, and Associate Professor at Villanova University, PA. He is a professional engineer with a BS in Civil Engineering from the Institute of Technology, India, a MS and PhD in Environmental Engineering from Michigan Technological University; He teaches advanced environmental engineering courses in water/wastewater treatment, aquatic chemistry, and fate/transport of contaminants. His research interests include emerging contaminants, water quality and advanced oxidation processes.

Abstract: Application of Ozonation Process for the Destruction of Active Pharmaceutical Ingredients (APIs) in Water. Presence of Active Pharmaceutical Ingredients (APIs) in water are a concern. Certain APIs are being considered for inclusion to the CCL3. This presentation will focus on a study conducted to evaluate Ozone for the destruction of 12 APIs (free steroid hormones). Dr. Suri will discuss the degradation of the hormones, mass transfer aspects and removal of estrogenicity.

Jeanne Bailey, is the Public Affairs Officer for the Fairfax County Water Authority. FCWA provides service to nearly 1.5 million people in the Northern Virginia communities of Fairfax, Loudoun, Prince William and Alexandria. Jeanne has worked in the drinking-water community for more than 25 years and has presented at National AWWA events on Public Communications issues. She currently serves on the National AWWA Public Affairs Council and serves as the Chair of the Media and Stakeholders Relations Committee of that Council.

Abstract: CCL3/PPCP/EDC – What can we REALLY say? -An introspective look at communicating the unknown. As we continue to hone our analytical skills, we seem to be creating a communications conundrum. At times, it seems, the more we learn the less we know, or can say with confidence. So what are utilities to do?