



Contaminants of Emerging Concern (CECs): PFAS, TCP, HABs, PPCPs, DBPs ...Treating the Alphabet Soup



Drinking Water Treatment Contact Hour Class

You are invited to attend an educational technical seminar sponsored by the American Water Works Association, California-Nevada Section and presented by Calgon Carbon Corporation's team of experts.

Hosted by California State University, Fresno

Municipal Drinking Water Treatment Training Seminar

Municipal drinking water treatment has evolved greatly over the last several years as new contaminants have been discovered, new regulations promulgated, and new technologies developed to address contaminants. This seminar will cover some of the most critical of these new contaminants and technologies.



Drinking Water Treatment Topics covered include:

- The California Water Board Drinking Water Division's recently issued Public Health Advisory for PFOA and PFOS;
- USEPA Public Health Advisory;
- PFAS Compounds – Understanding the differences between “Short Chain” and “Long Chain” compounds;
- The California Water Board Drinking Water Division's recently issued MCL for 1,2,3-TCP;
- Hazardous Algae Blooms – Cyanotoxins;
- Taste & Odor Compounds: Geosmin and Methyisoborneol (MIB);
- Pharmaceuticals and Personal Care Products (PPCPs);
- Chromium-6, Perchlorate, and Nitrate treatment techniques;
- Ion Exchange options for removing PFAS;
- Understanding the current USEPA disinfection by-product (DBP) regulations and compliance technologies;
- Learning about emerging unregulated DBP formation and how to minimize their formation while complying with current regulations;
- Understanding DBP Formation Potential;
- Use of Biologically-Active Carbon;
- Advanced Oxidation Processes coupled with Activated Carbon;
- Other Activated Carbon technologies and their application to municipal drinking water treatment;
- Learning how the practice of custom municipal reactivation (CMR) lowers both the cost and the environmental impact of utilizing activated carbon; &
- New, Current, and Relevant information from a national water treatment advocate on drinking water treatment trends and emerging water quality issues such as brain-eating amoeba, Legionella, distribution system bacteriological regrowth and scaling.

At the end of this seminar, participants will be able to:

- Identify the currently regulated DBPs and those emerging unregulated DBPs of the greatest concern;
- Understand the origins of emerging unregulated DBPs and what steps can be taken to prevent formation;
- Identify the major sources of CECs in water and rank the technologies that are most to least effective in removing them;
- Better understand and apply new Safe Drinking Water Act regulations;
- Select the appropriate activated carbon to treat either surface water or groundwater organic contaminants;
- Interpret and apply new drinking water regulations; &
- Communicate better with Consumers about drinking water treatment.

Professional development hour credits will be available to seminar attendees. Calgon Carbon Corporation is a registered credit provider via RCEP. Please circulate this invitation to your colleagues who may also wish to attend.

Please join AWWA Monday, January 14, 2019 at California State University, Fresno – Center for Irrigation Technology – 5370 N Chestnut Ave. Fresno, CA 93710
Hurry... Registration will close on January 9 at 5:00 p.m.

Agenda

8:00 - 8:30 a.m.	Continental Breakfast
8:30 - 8:45 a.m.	Introduction and Presentation Overview
8:45 - 9:45 a.m.	General Activated Carbon Technologies & Custom Reactivation
9:45 - 10:30 a.m.	Hazardous Algae Blooms
10:30 - 10:45 a.m.	BREAK
10:45 - 11:15 a.m.	USEPA – California Safe Drinking Water Acts
11:15 - 12:00 p.m.	Disinfection Byproducts and Solutions
12:00 - 12:30 p.m.	LUNCH
12:30 - 1:15 p.m.	Emerging Contaminants/Applications and Solutions
1:15 - 2:15 p.m.	Ion Exchange Water Treatment Technology Developments
2:15 - 2:30 p.m.	BREAK
2:30 - 3:00 p.m.	Drinking Water Treatment Trends and Emerging Water Quality Issues
3:00 - 3:30 p.m.	Questions and Open Discussion

7 SWRCB Division of Drinking Water Contact Hours!
Continental breakfast and lunch provided by Calgon Carbon Corporation

Cost: \$195.00

To register to attend this seminar, return the registration form along with payment to:

CA-NV Section AWWA
10435 Ashford St., 2nd Floor
Rancho Cucamonga, CA 91730

Please make checks payable to AWWA

**We're looking forward to seeing
you there!**

Contaminants of Emerging Concern

Registration Form

Fresno - January 14, 2019

AWWA Fee \$195

Attendee Name: _____

Attendee Mailing Address: _____

City: _____ State: _____ Zip: _____

Cell Phone: _____ Home Phone: _____

Attendee E-mail: _____

Company Name: _____

Company Address: _____

City: _____ State: _____ Zip: _____

Company Phone: _____ Fax: _____

***Registration will not be processed without PAYMENT**

Make checks payable, in U.S. funds, to CA-NV AWWA

Check # _____ PO # _____
(Must be accompanied by a physical copy of the Purchase Order)

Payment Method: Credit Card: Visa ___ MC ___ AMEX ___

Name on Card: _____

Credit Card # _____

Exp. Date: _____ Billing Zip Code: _____

Authorized Signature: _____

Total Amount Due: _____

If you need a copy of your receipt, please enter e-mail address:

E-mail _____

To register or cancel your registration at any time, please contact Shobhana at 909.291.2117.

Please fill out this form completely and mail to:

**CA-NV Section AWWA
10435 Ashford St., 2nd Floor
Rancho Cucamonga, CA 91730**

Or you can **fax** it to **(909) 291-2107** (secure fax line). Or **email** it to **schickarmane@ca-nv-awwa.org**

CONTACT HOURS

All Contact Hours are emailed. In order to receive your Contact Hours, you must include your email address on this form. For attendance verification you must sign in and out. You must be in attendance for the full time in order to be awarded full credit. If your attendance cannot be verified you will not be issued Contact Hours. The Contact Hours advertised by the CA-NV AWWA are only an estimate, final hours are determined upon an audit of your record. It can take up to 30 days to process and issue your Contact Hour certificates.

CA-NV AWWA CANCELLATION POLICY

Due to our commitment to instructors, other students and materials, the following refund policy applies: **1)** Requests for refunds must be made in writing and are subject to the following conditions: Full refund of fee paid (minus \$50.00 handling fee) will be issued for cancellations received more than 15 days prior to class start date. All fees are non-refundable thereafter. **2)** Requests for transfers must be made in writing and are subject to the following conditions: Transfers are based on availability. No transfer requests will be authorized if they are not received more than 15 days prior to class start date. **3)** A 100% refund or credit of your registration fee will be issued if a class is cancelled by the Section.