



# INFORMATION-EXCHANGE WEBINAR



An American Ground Water Trust program

SOLUTIONS TO GROUNDWATER CONTAMINATION

## MO & KS PFAS & Related Compounds

**Wednesday, September 30, 2020**

**MORNING SESSION 9:00am-12:00pm and AFTERNOON SESSION 12:30pm-3:40pm CST**

“110 million Americans have some PFAS in their drinking water”

(Estimate from EWG—Environmental Work Group)

### What about water supply in Missouri, Kansas and surrounding states?

This program has been held as a workshop in Cincinnati, OH, Grand Rapids, MI, Sacramento, Montclair, Fresno and Bakersfield, CA, Pittsburgh, PA, Mount Laurel, NJ, Phoenix, AZ, Albuquerque, NM, Westford, MA and Tallahassee, FL and as a webinar for WA, OR, ID, GA, FL, NJ, MD, and DE.

The American Ground Water Trust (AGWT) is a 501(c)(3) non-profit education organization



### CONTINUING EDUCATION



Approved for Missouri Water and Wastewater Operators – Course #2008838, 5.5 Training Hours

Approved for Kansas Water and Wastewater Operators – 5.0 Training Hours

Certificate of Attendance available for all attendees upon completion of CE Form



Many states are confronting contamination of groundwater and surface water from so-called emerging contaminants. There are technical, regulatory and legal challenges for communities responding to groundwater contamination. Water providers are faced with an urgent need to deal with concerns about health issues, regulations, property values, remediation options and infrastructure costs. The webinar will provide objective information to facilitate water providers, elected officials, citizens and



community leaders with policy, planning and management decisions.

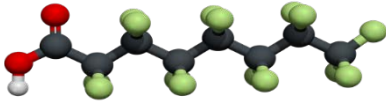
Over 5,000 PFAS (per- and polyfluorinated alkyl substances) occur in the world today and many PFAS compounds transform into highly persistent perfluorinated chemicals in the environment. The compounds are connected to several cancers, liver, kidney and reproductive disorders and other health effects.

Webinar participants will learn about the chemistry background, sampling & testing protocols, treatment technologies, cost recovery options and the characteristics of environmental persistence of contamination. Presenters will provide case studies of technical solutions for treatment and remediation. The program will also discuss regulatory and legal solutions to protecting drinking water integrity from a range of contaminants and will consider ways to find funding to pay for treatment of contaminated groundwater.

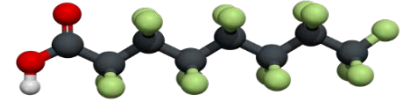
### Join our Webinar Sponsors of American Ground Water Trust PFAS Education Programs:



To become a webinar sponsor, call 800 423 7748 or visit our website for this event at [www.agwt.org/events](http://www.agwt.org/events).



## Webinar Details



**Webinar morning session – 9:00am CST**      **Wednesday, September 30, 2020**  
8:55am - Log-in available – code provided via email to registered participants.

### **THE DEPTH AND EXTENT OF PFAS IMPACTS ON WATER RESOURCES**

Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH

### **COLLOIDAL ACTIVATED CARBON FOR IN SITU REMEDIATION OF PFAS**

Chad Northington, PE, REGENESIS, Southeast District Manager, Tallahassee, FL

### **CARBON AND RESIN CASE STUDIES FOR REMOVAL OF PFAS AND OTHER CONTAMINANTS FROM GROUNDWATER**

Dave Kempisty, Ph.D., P.E., Business Development Manager, Evoqua Water Technologies LLC, Colorado Springs, CO

### **10-minute break**

### **PFAS – LESSONS FROM 15+ YEARS OF ISOTOPE-DILUTION PFAS TESTING ON THOUSANDS OF WATER, SOIL AND TISSUE SAMPLES**

Tim Fitzpatrick, Business Development Manager-Environmental Services, SGS AXYS Analytical Services Ltd., Snellville, GA

### **PFAS COMPOUNDS ARE RARELY THE ONLY WATER QUALITY PROBLEM WHEN SELECTING TREATMENT: LABORATORY TESTING PROTOCOLS FOR PFAS ANALYTES AND “OTHER” CHEMICAL CONTAMINANTS**

AnnieLu DeWitt, Remediation Technologies, Clean Harbors, South Portland, ME

### **30-minute break for lunch 12:00pm to 12:30pm**

12:25pm - Log-in available for afternoon session – code provided via email to registered participants

### **TREATMENT SOLUTIONS FOR GROUNDWATER CONTAMINANTS**

Jim Benjamin, Area Manager, Layne Christensen, Mesa, AZ

### **EQUIPMENT AND MEDIA SOLUTIONS FOR REMOVING PFAS FROM WATER**

Kelsey Hakes, Business Development Engineer, AqueoUS Vets, Redding, CA

### **CHAIN PFAS REMOVAL WITH SINGLE-USE SELECTIVE ION EXCHANGE RESIN**

Cathy Swanson, Groundwater Remediation Specialist, Purolite Corporation, Fullerton, CA

### **10-minute break**

### **EXPLORING PFAS TREATMENT SOLUTIONS AND THEIR EFFICACY: COMPARISON OF NOVEL ADSORBENTS, GRANULAR ACTIVATED CARBON, AND ION EXCHANGE RESINS**

Matt Geary, Technical Sales Manager, CETCO, FLUORO-SORB, Philadelphia, PA

### **POLLUTER SHOULD PAY: LITIGATION AS A MEANS TO RECOVER COSTS**

Richard Head, JD, Attorney, SL Environmental Law Group PC, San Francisco, CA

**End of Webinar – 3:40pm – CE Form Completion**





# Missouri & Kansas PFAS Webinar

## Wednesday, September 30, 2020

### Registration Form



Registration and payment can be made on-line at [www.agwt.org/events](http://www.agwt.org/events)

**Morning session (9:00am to 12:00pm) and Afternoon session (12:30pm to 3:40pm) CST**

1<sup>st</sup> Registration \$100       2<sup>nd</sup> Registration free

Continuing Education Units (check if also applying for credit)

**For organizations with more than one attendee, each participant must register and provide email address.**  
**Please send in separate registrations for each person participating in the webinar.**  
**Instructions for webinar log-in will emailed.**

All registrants will be emailed pdf copies of the presenter PowerPoint slides a few days after the webinar.  
 These pdf files contain detailed information about the presentation topics and are for the personal use of webinar registrants.

**Payment Information:**

CHECK [payable to: AGWT]       AMEX/VISA/MC/Discover       PO # \_\_\_\_\_

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\*The CEU verification process requires that participants are able to receive e-mails during and after the webinar. For participants requiring CEUs, the e-mail address listed above has to be an e-mail that can receive messages during and after the webinar.

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**REGISTER ONLINE:**  
[agwt.org/events](http://agwt.org/events)

**MAIL TO:**  
 American Ground Water Trust  
 50 Pleasant Street, Suite 2  
 Concord, NH 03301-4073

**FAX:** (603) 228-6557

**TEL:** (603) 228-5444

**? QUESTIONS:**  
 (800) 423-7748  
 9:00-4:00pm (Eastern Time)

[Register on-line at www.agwt.org/events](http://www.agwt.org/events)

### AMERICAN GROUND WATER TRUST

The AGWT was formed in 1986 as a non-profit education organization with the mission of promoting interest and awareness in groundwater issues. The AGWT's conference, workshop and webinar programs and educational materials:



- ◆ Communicate the environmental and economic value of groundwater
- ◆ Showcase groundwater science and technology solutions
- ◆ Increase citizen, community and decision-maker awareness
- ◆ Facilitate stakeholder participation in water resource decisions
- ◆ Promote efficient and effective groundwater management