



INFORMATION-EXCHANGE WORKSHOP

An American Ground Water Trust program

SOLUTIONS TO GROUNDWATER CONTAMINATION

PFAS AND RELATED COMPOUNDS

Tallahassee, FL - Wednesday, January 8, 2020

University Center, FSU, 288 Champions Way, Bld B 3rd Floor, Tallahassee, FL 32306

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

(Estimate from EWG—Environmental Work Group)

What about water supply in Florida and surrounding states?

This workshop program has been held in Cincinnati, OH, Grand Rapids, MI, Sacramento, Montclair, Fresno and Bakersfield, CA, Pittsburgh, PA, Mount Laurel, NJ, Phoenix, AZ, Albuquerque, NM and Westford, MA.

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

CONTINUING EDUCATION



The AGWT will issue Certificates of Attendance



Approved by Florida Water Environment Assn for Water & Wastewater Operators (DW,WW,DS) – Course #32450201
5.75 PDHs (.575 CEUs)

Approved for FL Professional Engineers

Approved by Georgia State Board of Examiners for Certification of Water & Wastewater Treatment Plant Operators & Laboratory Analysts – Course #CE-6-W-1219-AGWT-013122-2345 - 6 W Points

Application Pending for AL Water & Wastewater Operators



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 workshop program 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.

Workshop 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.

Workshop Sponsors:



7:30 – 8:30 REGISTRATION & LIGHT REFRESHMENTS + Network with exhibitors

8:30 – 8:45

WHY ALL PROFESSIONALS INVOLVED WITH WATER SUPPLY NEED TO UNDERSTAND THE DEPTH AND EXTENT OF PFAS IMPACTS ON WATER RESOURCES

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

8:45 – 9:15

DEALING WITH PFAS CONTAMINATED GROUNDWATER

Viraj deSilva, PhD, PE, BCEE, Wastewater Treatment Director, SCS Engineers, Tampa, FL

9:15 – 9:45

CASE STUDIES OF PFAS CONTAMINATION PROBLEMS AND THE TREATMENT SOLUTION

Barry Zvibleman, Vice-President, Onion Enterprises, Inc., Naples, FL

9:45 – 10:15

“FOREVER COMPOUNDS” - PFAS AND WASTE - WHAT TO DO WITH IT NOW? (LANDFILLS? INCINERATION? WASTEWATER TREATMENT?)

Norman Farmer, PFAS Program Director and US Technical Director, SGS North America, Orlando, FL

10:15 – 10:45 BREAK Network with exhibitors and presenters

10:45 – 11:15

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

11:15 – 11:45

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

Caitlin M. Berretta, Business Development Manager - Environmental Solutions, Evoqua Water Technologies, Washington, DC

11:45- 12:15

USE OF ADVANCED TECHNOLOGIES TO MITIGATE THE IMPACT OF PFAS ON WATER SUPPLIES

Steve Woodard, PhD, President, ECT2, (Emerging Compounds Treatment Technologies), Portland, ME

12:15 – 1:15 LUNCH Network with exhibitors and presenters

1:15 – 1:45

SHORT & LONG CHAIN PFAS REMOVAL WITH SINGLE-USE SELECTIVE ION EXCHANGE RESIN

Chris Bailey, Southeast Regional Manager, Purolite, Boca Raton, FL

1:45 – 2:15

PFAS: HUMAN HEALTH IN THE CONTEXT OF REGULATION

Leslie M. Beitsch, MD, JD, Chair, Dept. of Behavioral Sciences and Social Medicine, Center for Medicine and Public Health, Florida State University College of Medicine, Tallahassee, FL

2:15 – 3:00 BREAK Network with exhibitors and presenters

3:00 – 3:30

AIR EMISSIONS/DEPOSITION AS A POTENTIAL PATHWAY TO GROUNDWATER CONTAMINATION

Stephen Zemba, PhD, PE, Project Director, Sanborn Head Associates, Concord, NH

3:30 – 4:00

STATE PERSPECTIVE ON PFAS ISSUES

Tim Bahr, Director of Waste Management, Florida Department of Environmental Protection, Tallahassee, FL

4:00 – 4:30

POLLUTER SHOULD PAY: LITIGATION AS A MEANS TO RECOVER COSTS

Ashley B. Campbell, JD, Attorney, SL Environmental Law Group PC, Concord, NH

4:30 Continuing Education sign out and ADJOURN