## JUN 7 • NASHVILLE, TN VAPOR INTRUSION WORKSHOP 2023







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# Welcome

## to an EnviroWorkshops Live Event for Remediation Professionals

Warm thanks for taking part in this occasion for discovering products and ideas, making conversation, and finding new connections in your field.

We've been developing and growing this annual series of accessible half-day events for environmental professionals since 2013. Celebrating 10 years in the industry, the current year finds us in more than forty-five cities across the U.S. and Canada.

# **Program Contents**

for the Vapor Intrusion Regional Workshop

# A. INTRODUCTION

Meet the national representatives of EnviroWorkshops and your host for today's workshop.

# B. SPONSOR, EXHIBITOR & ASSOCIATION PAGES

Sponsoring organizations make this series of workshops possible. Please take a few minutes to review their notices.

# C. WORKSHOP SCHEDULE

Outline of today's presentation agendas.

# D. SESSION NOTES

Summary information for each presentation, plus space to write.

# EnviroWorkshops

believes that we can work together to solve the global challenges that we face environmentally.

We have been growing this annual training series since 2013, and we've hosted over 400 workshops on 6 continents. Over 25,000 have registered in the past decade, and we have quickly become the largest training organization for environmental professionals worldwide.

Hundreds of speakers have addressed a range of topics including: Remediation, Vapor Intrusion, Air Quality, Coal Ash, and Geotech. In 2023, we introduced eight new themes with same quality presenters:

> PFAS Remediation Hydrocarbons & Halogens Advanced BioRemediation Energy & Environment PFAS & VOCs Remediation Boot Camp Canadian Remediation Vapor Intrusion

You can find further information on our website:



enviroworkshops.com

# Meet Your Hosts

Environmental Industry Professionals Representing EnviroWorkshops across North America



Travis Bowman Founder, Executive Director EnviroWorkshops travis@enviroworkshops.com (704) 728-5800



Environmental Remediation Specialist DeepEarth Technologies eric@cool-ox.com (815) 312-8678



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Brian Newgent Business Development Manager Aeroqual brian.newgent@aeroqual.com (410) 490-1437



Brian Shinall Business Development Professional Ellingson-DTD BShinall@ellingsoncompanies.com (678) 313-7593

## VAPOR INTRUSION U.S. WORKSHOP

### NASHVILLE, TN · JUN 7, 2023

### We're proud to bring the workshops to Nashville!

#### A Conversation with EnviroWorkshops Executive Director Travis Bowman



Travis, please give us an overview of your background in the environmental remediation industry.

I was the sales and marketing director at an environmental industry firm in the Carolinas that had a proprietary technology that significantly reduced the cost of cleaning up hydrocarbons and VOCs in contaminated soil, so I was bidding on sole-source projects all over the Southeast.

Eventually, I left that company and began my own independent sales consulting firm, representing ISCO and ISCR technologies, bioremediation technologies and a range of new technologies. While networking at conferences all over the country, the idea for Enviroworkshops was born.

#### How did participating in those conferences lead to creating Enviroworkshops?

I got the idea: "Instead of driving all over an area, what if all those needing the information I'm offering meet together? I could provide lunch and present information to everyone at once on the various available remediation technologies."

That was the initial Remediation Workshop, but it grew rapidly. I terminated my sales relationships to eliminate conflicts of interest. I wanted to create a truly unbiased offering of information on the various kinds of technologies available in the industry. Later, offering CEUs was added to increase the benefits to workshop attendees.

We're in our 10th year of Enviroworkshops. Over 25,000 have registered for a workshop, and we've held over 400 workshops on six continents. We have quickly become the largest environmental training organization worldwide.

#### Where do you see Enviroworkshops headed in the future?

In addition to our remediation workshops, we are expanding our repertoire to include brand new themes, such as PFAS Remediation, BioRemediation, Hydrocarbons & Halogens, PFOS, Energy & Environment, and more.

#### What do you enjoy most about your job?

I remember years ago being part of a project to clean up the contamination from a gas station in rural North Carolina. The gas station had closed years early, but an older woman who lived across the highway approached me and told me how grateful she was that gas station site was finally being cleaned up. She shared that whenever she used her hose to water her garden, the water smelled like gasoline. I thought, "If that's what she's having to put on her garden, what's in the water she's drinking?!"

If you go to a third world country, you can't drink the water there, but we tend to take safe drinking water for granted. It's great to be in this industry, cleaning up contaminants so that people can drink clean water.

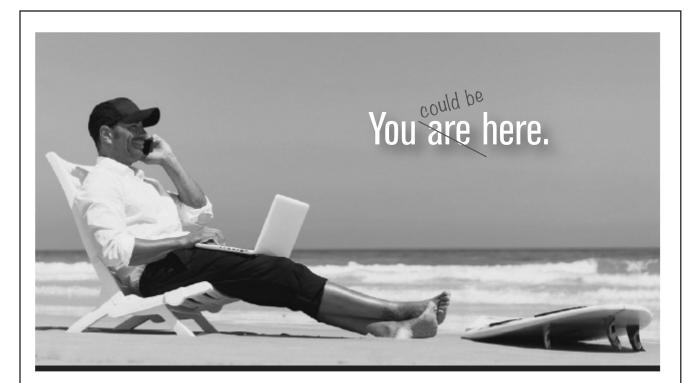
EnviroWorkshops has the pleasure of serving as host at the Nashville Workshop



Environmental Workshops, headquartered in North Carolina, is the largest training organization for environmental professionals worldwide. Since 2013, we have been training environmental professionals on the latest technologies in the industry by addressing topics such as: Remediation, Vapor Intrusion, Air Quality, and Wastewater. We have hosted over 400 workshops on six continents and more than 25,000 people have registered for our Professional Development Hours (PDH).

We are pleased to have partnered with 100+ speakers who are leaders in the environmental market, with many holding multiple patents and degrees. Each attendee of our workshops receives a certificate worth 0.4 CEUs (4 Professional Development Hours) towards continuing education credits.

# SPONSORS, EXHIBITORS and ASSOCIATIONS



# The Future of Vapor Intrusion Mitigation has Arrived

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If vapor intrusion is your problem, breathe easy, we are your solution.





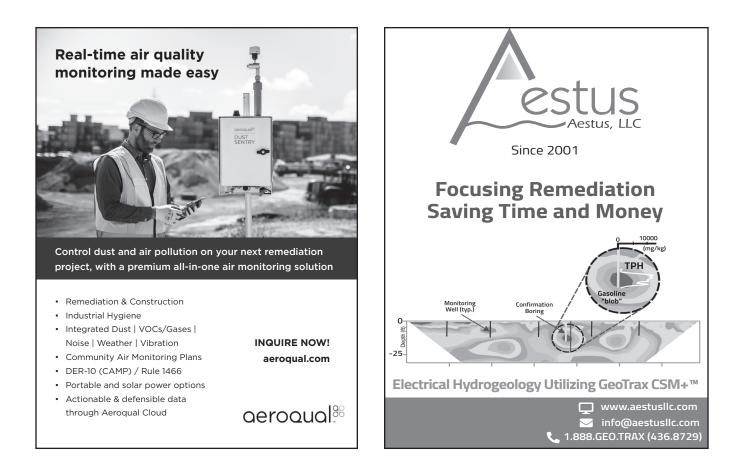


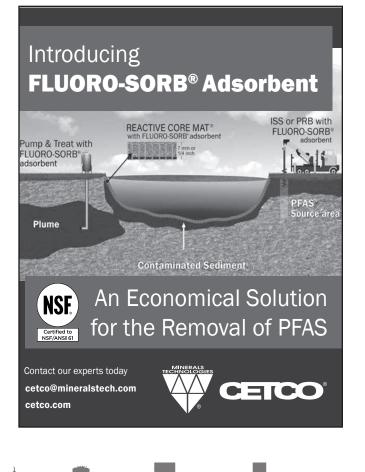




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#### FROM SAMPLE COLLECTION TO CERTIFICATE OF DESTRUCTION, WE KNOW PFAS.

Turn-Key PFAS Treatment Solutions. The concentration and mixture of compounds found in a contaminated stream will determine the necessary approach for efficient removal. Clean Harbors can provide full-scale, temporary and permanent systems, as well as piloting trailers that will compare treatment medias on site, in real-time. In addition, winterized, self-contained systems can be delivered with modular capabilities to supply the treatment train most suited for each application, including pre-treatment.

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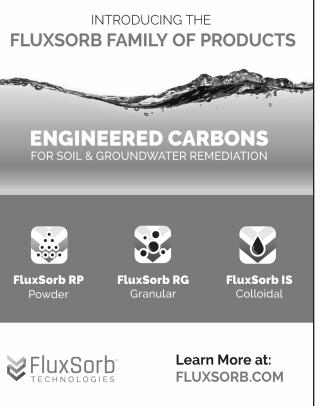
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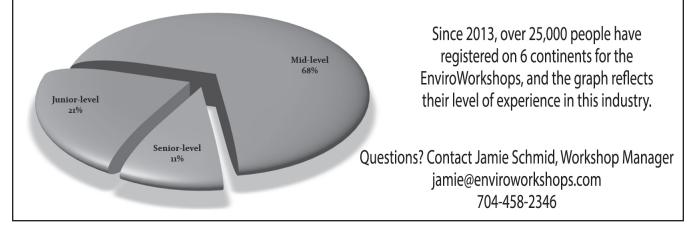


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# WHO ATTENDS OUR WORKSHOPS?

There is a unique difference between the EnviroWorkshops and conferences in our industry. Conferences are mostly attended by Senior Level professionals because of budget constraints and travel costs. However, Mid-Level environmental professionals are making decisions every day on the products and services they purchase.





## EXHIBITOR CONTACTS

Betts Environmental Pate Betts, Project Manager (229) 561-3272 pbetts@bettsenv.com

**Cox-Colvin and Associates, Inc.** Craig Cox, President & Principal Scientist (614) 504–6915 Craig\_Cox@vaporpin.com

M&W Drilling Chris Schappell, Branch Manager (803) 230-7992 cschappell@mwdrillingllc.com

SAEDACCO Pete Byer, Owner (704) 634-1046 pbyer@saedacco.com

Vapor Pin Laurie Chilcote, Vice President (614) 504–6915 Laurie\_Chilcote@vaporpin.com Clean Vapor Thomas Hatton, CEO (908) 362-5616 Thatton@cleanvapor.com

Land Science Jason Wilt, Southeast District Manager (470) 774-7953 JWilt@LandScienceTech.com

**Pine Environmental** Jim Nettle, Technical Sales Representative (865) 440-0761 jnettle@pine-environmental.com

Total Vapor Solutions Jim Fineis, P.G., President (770) 883-3372 jim@totalvaporsolutions.com

# SCHEDULE, SESSION NOTES and 2023 WORKSHOP DATES

## VAPOR INTRUSION U.S. WORKSHOP

### NASHVILLE, TN · JUN 7, 2023

### Workshop Schedule

11:15	Registration, buffet-style lunch & networking with exhibitors
11:45	Welcome & introductory remarks
	Travis Bowman, Executive Director, EnviroWorkshops
12:00	Welcome and Overview of TN VOAP VI Guidance
	Justin Meredith, Environmental Fellow, TN Department of Environment and Conservation Division of Remediation
12:15	Vapor Intrusion, Conceptual Site Model (CSM), hidden and unexpected sources
	Jim Fineis, President, Total Vapor Solutions
1:05	A Successful Vapor Intrusion Project Begins with a Carefully Conceived Conceptual Site Model
	Laurie Chilcote, Vice President, Vapor Pin
	Craig Cox, President & Principal Scientist, Cox-Colvin & Associates

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1:55 lunch break

2:30	Vapor Intrusion Efficient Mitigation
	Methods and Remote Management

Thomas Hatton, CEO, Clean Vapor

3:20 Three Technology Advancements in Vapor Mitigation

Jason Wilt, Southeast District Manager, Land Science

4:10 Panel Discussion

Justin Meredith, Jim Fineis, Laurie Chilcote, Craig Cox, Thomas Hatton, Jason Wilt

5:00 After hours networking

#### 12:00

#### Welcome and Overview of TN VOAP VI Guidance

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Justin Meredith



Justin Meredith Environmental Fellow TN Dept of Environment & Division of Remediation (615) 532-9304 Justin.M.Meredith@tn.gov Justin Meredith is an Environmental Fellow at the Tennessee Department of Environment and Conservation Division of Remediation (TDEC-DoR). This role includes preforming a diverse range of responsibilities, including writing Rules, creating guidance documents, and providing technical support to multiple divisions within TDEC. Justin has extensive experience and knowledge in addressing vapor intrusion related

issues through remediation, mitigation, and risk assessment. Prior to his tenure at TDEC, Justin worked for Environmental Chemical Corporation, where he gained valuable experience working on remediation projects. In addition to his work at TDEC-DOR, Justin serves as the Tennessee point of contact for the Interstate Technology and Regulatory Council, represents Tennessee on the EPA Federal-State Toxicology Risk Analysis Committee, and sits on the Chemicals of Emerging Concern steering committee of the Association of State and Territorial Solid Waste Management Officials.

### 12:15

#### Vapor Intrusion, Conceptual Site Model (CSM), hidden and unexpected sources

Jim Fineis, P.G.



Jim Fineis, P.G. President Total Vapor Solutions (770) 883-3372 jim@totalvaporsolutions.com Total Vapor Solution is a boutique firm specializing in all aspects of vapor intrusion projects and was founded in 2017 by Jim Fineis P.G. Prior to opening Total Vapor Solutions, Mr. Fineis was the owner of Atlas Geo-Sampling Company. Between work contracted by Atlas Geo-Sampling and Total Vapor Solutions, Mr. Fineis has conducted vapor intrusion projects throughout the United States and internationally. He has conducted

over 500 vapor intrusion investigations. Recent projects include the collection of subslab, indoor air, crawl space air and ambient air samples in approximately 110 homes around a former military base. Projects were completed in three countries and 30 + states over the past couple of years.

Additionally, Mr. Fineis has lectured at numerous conferences throughout the Southeastern United States on topics that include the appropriate installation methods for vapor intrusion sampling points, proper sample collection methods, and data analysis techniques. Over the past two years, Mr. Fineis has been an instructor on active and passive soil gas collection methods in the Hartman Environmental Geoscience vapor intrusion course. A Successful Vapor Intrusion Project Begins with a Carefully Conceived Conceptual Site Model

Laurie Chilcote Craig Cox



Laurie Chilcote Vice President Vapor Pin (614) 504–6915 Laurie\_Chilcote@vaporpin.com Laurie Chilcote serves as Director of Sales & Marketing for Cox-Colvin & Associates, Inc, and is Vice President of Vapor Pin Enterprises, Inc. and Vapor Pin do Brasil. In her role as Managing Director and Vice President of Vapor Pin Enterprises and Vapor Pin do Brazil, she provides managerial and technical oversight on all US and international marketing and sales for the Vapor Pin®, manages the firms US and international Patents and Trademarks, and

### 1:05

establishes and oversees the firm's network of international distributors. Ms. Chilcote provides lectures and poster presentations at numerous regional and international conferences as well as training to environmental firms, regulatory agencies, and developers on the Vapor Pin® technology, implementation, and quality control. Ms. Chilcote is a founding member and serves on the board of the Association of Vapor Intrusion Professionals (AVIP).

A Successful Vapor Intrusion Project Begins with a Carefully Conceived Conceptual Site Model

Laurie Chilcote Craig Cox



Craig Cox President & Principal Scientist Cox-Colvin & Associates, Inc. (614) 504–6915 Craig\_Cox@vaporpin.com

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Craig Cox serves as President of Cox-Colvin & Associates, Inc, and is responsible for providing managerial and technical oversight on major environmental projects conducted by the firm. In addition to his consulting activities, Mr. Cox presents at numerous regional and international conferences on the topics of groundwater contaminant migration and remediation, source area evalua-

### 1:05

tions, and vapor intrusion assessment. Mr. Cox is the inventor of the Vapor Pin® subslab soil gas sampling device, the primary architect of a variety of environmental database applications, and is a founding member and serves on the board of the Association of Vapor Intrusion Professionals (AVIP).

#### Vapor Intrusion Efficient Mitigation Methods and Remote Management

Thomas Hatton



Thomas Hatton CEO Clean Vapor (908) 362-5616 Thatton@cleanvapor.com Tom has thirty-three years of experience in design and installation management of Vapor Intrusion and Radon mitigation systems totaling approximately 11,000 combined commercial and residential properties. In 1985, he pioneered one of the first models to effectively predict the attenuation of soil vapors into homes. He has contributed to multiple codes and standards including the National ANSI /AARST Radon Mitigation Standards

for Multi-Family Residential Buildings, the National Mitigation Standards for Large Buildings and Schools, the Vapor Intrusion Mitigation Standards for Residential Buildings and the recently released Soil Gas Control Systems in New Construction of Buildings. He has authored several technical papers on energy efficient soil gas venting systems for new construction and existing buildings including both of the NAVFAC Existing Building and New Construction Vapor Intrusion documents. Tom is the patent holder of the energy saving, remote management technology that stabilizes pressures between the underlying soil and buildings. His focus is on precision building diagnostics, plan design and the integration of energy efficient dynamic controls and remote management and monitoring technology for commercial buildings and vapor impacted communities.

#### Three Technology Advancements in Vapor Mitigation

Jason Wilt



Jason Wilt Southeast District Manager Land Science (470) 774-7953 JWilt@LandScienceTech.com Jason is the Southeast District Manager for Land Science where he is responsible for assisting our client partners with technical support in the evaluation, design, and installation of TerraShield, Nitra-Seal, MonoShield and Retro-Coat vapor mitigation systems. Jason also works closely with the regulatory community to advance guidance and understanding of vapor intrusion barrier technologies, implementation, and QA/

### 3:20

QC best practices. Jason has a diverse background in the environmental industry, including environmental laboratory experience and a long history of helping clients manage their hazardous waste streams.

4:10

Panel Discussion

Justin Meredith, Jim Fineis, Laurie Chilcote, Craig Cox, Thomas Hatton, Jason Wilt







## U.S. & Canadian Workshop Dates

## 2023



#### PFAS REMEDIATION

Charlotte, NC - Jan. 17	
Raleigh, NC - Jan. 19	
Boston, MA - Mar. 14	
Detroit, MI - Mar. 16	
Portland, OR - Sep. 12	
Irvine, CA - Sep. 14	



#### HYDROCARBONS and HALOGENS

Houston, TX - Jan. 24 Baton Rouge, LA - Jan. 26 Long Beach, CA - Mar. 28 San Diego, CA - Mar. 30 Denver, CO - Sep. 26 Salt Lake City, UT - Sep. 28



#### ADVANCED BIOREMEDIATION

Philadelphia, PA - Mar. 7 Princeton, NJ - Mar. 9 Los Angeles, CA - May 23 San Diego, CA - May 25 Houston, TX - Nov. 1 Dallas, TX - Nov. 2



#### ENERGY and ENVIRONMENT

Louisville, KY - Mar. 14 Chicago, IL - Mar. 16



#### PFAS & VOCs

Birmingham, AL - Apr. 25 Atlanta, GA - Apr. 27 Philadelphia, PA - May 16 Parsippany, NJ - May 18

PFAS & VOCs Deluxe: Honolulu, HI - Jul. 26



#### REMEDIATION BOOT CAMP

Baltimore, MD - TBD Philadelphia, PA - TBD Oakland, CA - TBD Sacramento, CA - TBD Detroit, MI - TBD Cincinatti, OH - TBD



#### CANADIAN REMEDIATION

Toronto, ON - Apr. 26 Kitchener, ON - Apr. 27 Halifax, NS - Jun. 15 Vancouver, BC - Sep. 12 Red Deer, AB - Sep. 14 Ottawa, ON - Jan. 10, 2024 Montreal, QC - Jan. 11, 2024



#### VAPOR INTRUSION

Knoxville, TN - Jun. 6 Nashville, TN - Jun. 7 Chattanooga, TN - Jun. 8 Oakland, CA - Oct. 24 Los Angeles, CA - Oct. 26 On-Demand WEBINARS



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