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VAPOR INTRUSION + PFAS REMEDIATION
WORKSHOPS 2024



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Welcome

to an EnviroWorkshops Event for Environmental 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 over 10 years in the industry, the current year finds us in more than 50 cities across the U.S. and Canada.

Program Contents

for the Vapor Intrusion + PFAS Remediation 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.

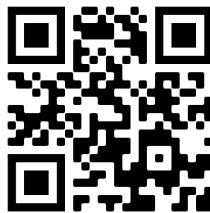
We have been growing this annual training series since 2013, and we've hosted over 500 workshops on 6 continents. Over 30,000 have registered in the past decade, and we have quickly become the largest training organization for environmental professionals worldwide.

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, and this year in 2024 continue to offer relevant themes such as:

- PFAS Remediation
- Hydrocarbons & Halogens
- Advanced BioRemediation
- CCR
- 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



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Founder, Executive Director
EnviroWorkshops
travis@enviroworkshops.com
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VAPOR INTRUSION + PFAS REMEDIATION U.S. WORKSHOP

COLUMBUS, OH • MAY 1, 2024

We're proud to bring the workshops to Columbus!

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 11th year of Enviroworkshops. Over 30,000 have registered for a workshop, and we've held over 500 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, VOCs, CCR & 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 Columbus 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 500 workshops on six continents and more than 30,000 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.



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- **Highly effective** separating and concentrating >99.999%, including short-chain compounds
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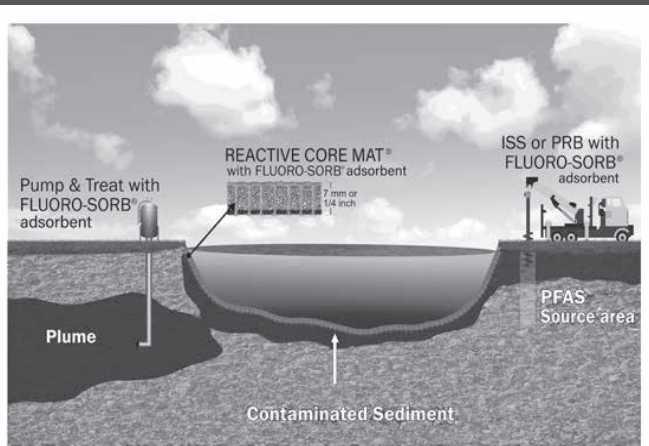
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- Vapor Intrusion Mitigation



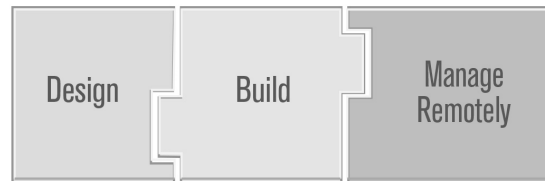


The Future of Vapor Intrusion Mitigation has Arrived

Clean Vapor is a nationally recognized leader in vapor intrusion mitigation. We specialize in large building, new construction and residential mitigation. For more than 30 years we have been providing unparalleled technical expertise and quality installations. Combined with the patented Vapor Dynamics remote monitoring and management system we are providing the most advanced solutions available.

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Questions?

Contact industry expert Will Rice for more information.



Will Rice

Technical Sales
and Business
Development Manager

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will.rice@enthalpy.com



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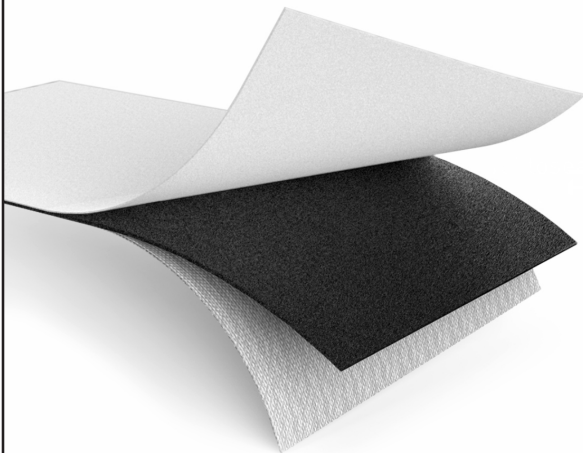
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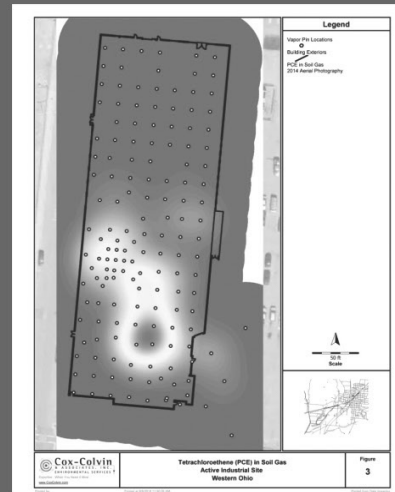


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Sierra_Edwards@vaporpin.com
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SCHEDULE, SESSION NOTES
and 2024 WORKSHOP DATES





VAPOR INTRUSION + PFAS REMEDIATION U.S. WORKSHOP

COLUMBUS, OH • MAY 1, 2024

Workshop Schedule

9:00	Registration, light breakfast & coffee, and networking with exhibitors	12:55	<i>Custom Designing Activated Carbons for Remediation Applications</i>
9:30	Welcome & introductory remarks Travis Bowman, President, EnviroWorkshops	1:35	break
9:45	<i>Optimizing Soil-Gas Sampling: Active, Passive, or Combined Approaches for Reliable Quantitative Monitoring</i> Laurie Chilcote, Vice President, Vapor Pin Craig Cox, President & Principal Scientist, Vapor Pin	2:00	<i>PFAS - Navigating the everchanging status of PFAS in the US: Regulatory updates/drivers, method development, current best practices and what is on the horizon</i> Jamie Fox, Senior Laboratory Program Manager, Enthalpy Analytical
10:25	<i>Vapor Intrusion Efficient Mitigation Methods and Remote Management</i> Thomas Hatton, CEO, Clean Vapor	2:40	<i>Remove PFAS from Water with Surface Active Foam Fractionation (SAFF)</i> Kevin Lewis, North America Sales Manager, Allonnia
11:05	<i>Navigating Vapor Intrusion: How to Optimize Sampling Practice to Carry Projects</i> Jamie Fox, Senior Laboratory Program Manager, Enthalpy Analytical	3:20	break
11:20	<i>CETCO Liquid Boot – GVB</i> Matt Geary, Technical Sales Manager, CETCO	3:35	<i>Emerging Contaminants: Monitoring and Sampling for PFAS</i> Grant Latus, Technical Sales Representative, Pine Environmental
11:35	lunch break	4:15	<i>PFAS remediation with Fluoro-Sorb® Adsorbent</i> Matt Geary, Technical Sales Manager, CETCO
12:00	<i>Keynote Speaker</i> TBD	5:00	After-hours networking
12:15	<i>PFAS: What to do BEFORE You Do It</i> Phil Farina, Midwest Business Development Manager, Clear Creek Systems		



and Trademarks, and 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).



9:45

*Optimizing Soil-Gas
Sampling: Active, Passive,
or Combined Approaches
for Reliable Quantitative
Monitoring*

Laurie Chilcote
Craig Cox



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

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 evaluations, and vapor intrusion assessment.



10:25

*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.



11:05

*Navigating Vapor Intrusion:
How to Optimize Sampling
Practice to Carry Projects to
Closure*

Jamie Fox



Jamie Fox
Senior Laboratory
Program Manager
Enthalpy Analytical
(916) 673-1520 *102
james.fox@enthalpy.com

Mr. Fox is a Sr. Program Manager for Enthalpy Analytical, LLC., focusing on PFAS and other persistent organic pollutants. He holds a B.S. in Biochemistry from University of Missouri - Columbia and has more than 25 years of experience in the environmental laboratory industry. His expertise lies in ultra-trace analysis of environmental pollutants and data interpretation. Currently, Mr. Fox leads



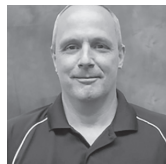
the Project Management team at our El Dorado Hills laboratory location and routinely supports complex projects for the Dept. of Defense and various industries' testing needs, including wastewater, drinking water supplies, and site assessment and remediation.



11:20

CETCO Liquid Boot – GVB

Matt Geary



Matt Geary
 Technical Sales Manager
 CETCO
 (518) 430-8790
 matt.geary@mineralstech.com

Mr. Geary has over twenty-nine years of experience in the environmental construction industry, ranging from his role as a site superintendent for one of the nation's largest remedial construction firms to managing a remediation estimating department and serving as vice president of a mid-sized environmental consulting firm.



Matt combines a strong and diverse background in applied environmental sciences with extensive knowledge of local state and federal regulations. He served as a member of the Brownfield Action Committee (BAC) for the Delaware Department of Natural Resources and Environmental Control (DNREC). Matt has presented technical papers and case studies at many local and national

conferences. His practical field experience and knowledge of local markets provides for superior service to CETCO's valued customers.



12:15

*PFAS: What to do BEFORE
You Do It*

Phil Farina



Phil Farina
Midwest Business
Development Manager
Clear Creek Systems
(419) 346-8848
pfarina@clearcreeksystems.com

Phil Farina got his education in New Jersey where he earned a BS in Biology; a BA in Psychology and an MS in Virology at Rutgers University. He then completed an MBA in Chemical Marketing at Fairleigh Dickenson University. He constantly strived to remain on top of new technologies and developments that can be employed in water treatment operations.



Phil currently holds the position of Midwest Business Development Manager for Clear Creek Systems, Inc. a full-service water treatment solution provider. For the past 35 years, he has been focused on the development of water treatment technology solutions for the CCR, remediation, and PFAS markets. He has been instrumental in bringing new technical solutions to the water treatment industry.

Clear Creek Systems is a recognized leader in the development of specialized water treatment systems designed to meet the specific needs of our customers. We are technology agnostic, meaning we will employ the right technology for the job assuring a result that is effective, economical, and most of all safe. Our team of experts can design, build and operate any sized system from 5 GPM to

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12:55

*Custom Designing Activated
Carbons for Remediation
Applications*

Joe Wong, Ph. D.



Joe Wong, Ph. D.
Chief Technology Officer
Arq
(303) 962-1967
joe.wong@arq.com

Joe is the Chief Technology Officer for FluxSorb Technologies, LLC, part of the Advanced Emissions Solutions, Inc. group of companies, where he leads all company initiatives in technology and product development and commercialization for activated carbons in emission control applications. He has over 27 years of industrial leadership experience in Research & Development, New Business Platform Development, Market Analysis and Mergers & Acquisitions.



He has deep knowledge in activated carbon development and application and brings a fundamental scientific view of situations.

Prior to joining FluxSorB, Joe worked 3 years in consulting. Joe's consulting experience spans a variety of financial and operational contributions. He took a lead role in developing and executing the financial assessment of project savings as part of a North American Lean Six Sigma deployment for a Fortune 100 consumer packaged goods

client. Joe led several integration planning and execution projects for Private Equity company acquisitions.

Prior to consulting, Joe spent 21 years with MeadWestvaco Corporation in senior leadership positions for the Consumer Packaging, Specialty Chemicals and Research & Development sectors. As VP Human & Technology Resources for Consumer Packaging, he led the acquisition integration of ten consumer packaging company acquisitions, with

emphasis on synergistically combining operational and functional work processes and organizations. While VP Business Development for the Specialty Chemicals Division, Joe led the combined R&D, Marketing and M&A teams.

Joe blends his business and financial acumen with a strong technical background so that process, operational and work processes are scientifically sound and bring sustainable business results. He also applies innovative



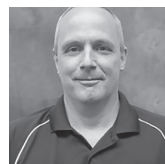
the Project Management team at our El Dorado Hills laboratory location and routinely supports complex projects for the Dept. of Defense and various industries' testing needs, including wastewater, drinking water supplies, and site assessment and remediation.



4:15

*PFAS remediation with
Fluoro-Sorb® Adsorbent*

Matt Geary



Matt Geary
Technical Sales Manager
CETCO
(518) 430-8790
matt.geary@mineralstech.com

Mr. Geary has over twenty-nine years of experience in the environmental construction industry, ranging from his role as a site superintendent for one of the nation's largest remedial construction firms to managing a remediation estimating department and serving as vice president of a mid-sized environmental consulting firm.



Matt combines a strong and diverse background in applied environmental sciences with extensive knowledge of local state and federal regulations. He served as a member of the Brownfield Action Committee (BAC) for the Delaware Department of Natural Resources and Environmental Control (DNREC). Matt has presented technical papers and case studies at many local and national

conferences. His practical field experience and knowledge of local markets provides for superior service to CETCO's valued customers.





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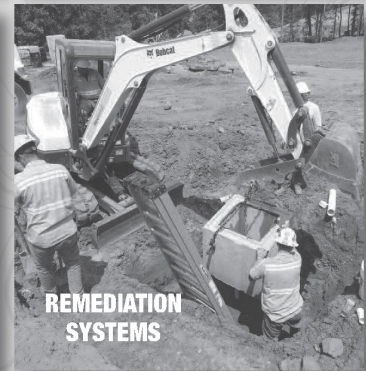
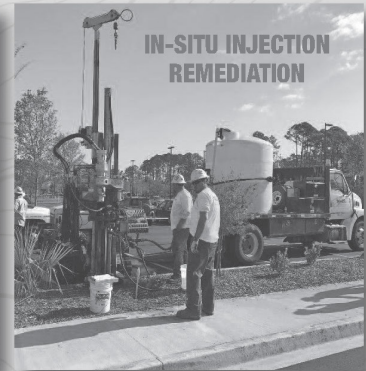
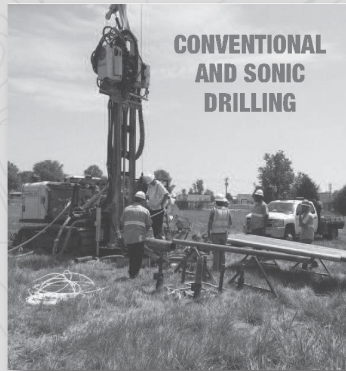
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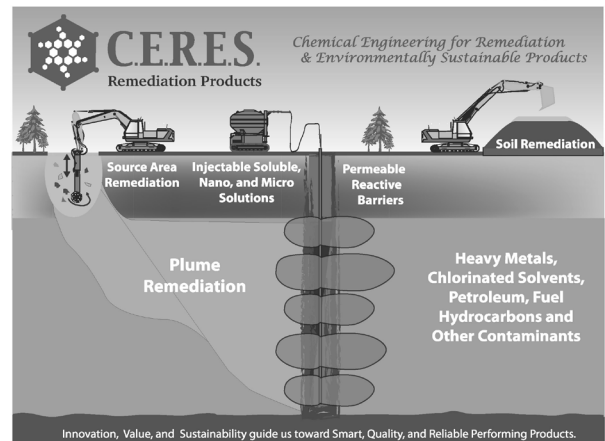
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David Bardsley - Business Development Manager

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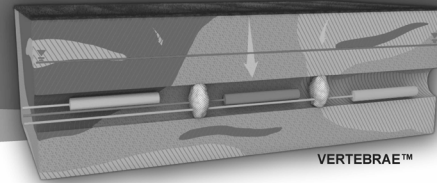
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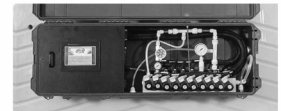


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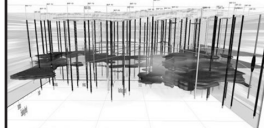
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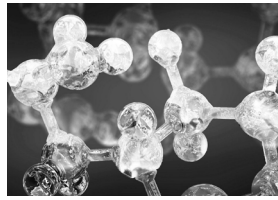
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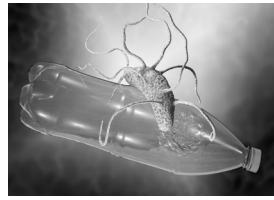
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Tallahassee, FL - Feb. 29
Pittsburgh, PA - Apr. 29
Columbus, OH - May 1
Ann Arbor, MI - May 3
Baltimore, MD - Oct. 15
Philadelphia, PA - Oct. 16
Edison, NJ - Oct. 17



HYDROCARBONS and HALOGENS

Jacksonville, FL - Apr. 8
Orlando, FL - Apr. 10
Ft. Lauderdale, FL - Apr. 12
Chicago, IL - Jun. 10
Milwaukee, WI - Jun. 11
St. Paul, MN - Jun. 13
Dallas, TX - Sep. 16
Austin, TX - Sep. 18
Midland, TX - Sep. 20



ADVANCED BIOREMEDIATION

Denver, CO - Mar. 12
Salt Lake City, UT - Mar. 14
Philadelphia, PA - May 7
Edison, NJ - May 9
Boston, MA - Nov. 5
Bridgeport, CT - Nov. 7



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Cincinnati, OH - Mar. 14
Charlotte, NC - Oct. 15
Kansas City, MO - Oct. 17



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Denver, CO - Nov. 12
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Chicago, IL - Jun. 10
Los Angeles, CA - Oct. 14



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Toronto, ON - Apr. 11



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