



INDOOR
Environments
2023™

Radon and Vapor Intrusion Symposium

Nashville

#RockingOutRadon

October 29 - November 1

Renaissance Nashville Hotel



AARST SYMPOSIUM 2023



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Renaissance Nashville Hotel
611 Commerce St
Nashville, TN 37203

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"It takes a village" so the saying goes, and the symposium is no different. We would like to acknowledge and thank all the volunteers committed to making the symposium a success year after year.

2023 Symposium Planning Committee

- Chair:* Dawn Oggier; *Co-Chair:* Duane West
- Technical & CRCPD:* Joshua Kerber, Denise Bleiler, Eleanor Diver, Brian Giancola, Chrystine Kelley, Leslie Smith
- Vapor Intrusion:* Lila Beckley, Aaron Friedrich, David Gillay, Paul Melillo, Kyle Hoylman
- Science & Research:* Michael Kitto, Phillip Jenkins, Jill Newton, Uttam Saha, Lawrence Welch
- Marketing & Exhibitors:* Ksenia Kolyeva
- Volunteer Recruiters:* Jennifer Long, Dawn Coffee

Onsite Volunteers

Fred Adam, Ed Beauregard, Lila Beckley, Bob Coffee, Dawn Coffee, John Davis, Katherine Dixon, Jim Emanuels, Joseph Ferlita, Dawn Gourd, Andrew Hatfield, Wes Hodgden, Zan Jones, Terry Kerwin, Michael Kitto, Joshua Keyes, Jennifer Long, Dave & Vickie Masa, David Metzger, Lauryn Oggier, Dan Potter, Mia Ray, Daisy Rezende, Chad Robinson, George Schambach, David Trent, Kirsten Schmidt, Brian Yang, Tanya Yu, Yiguang Zhu, and more...

AARST Foundation Boots and Bling Gala Chairs

Crystal Lytle, Jessi Moyle-Bickes, Bryan Coy, Paige Livingston, Brandy Toft, Andika Susanti, Tod Boss, Julie Manahan, Bobbi Jo Sauls

Staff

Diane Swecker, Jane Malone, Nicole Chazaud, Mike Devaynes, Andika Susanti, Holly Tabano, Amy Roedl, Christina Johnson, Rebecca Turek, Marcey Vescio

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WELCOME TO INDOOR ENVIRONMENTS 2023™ RADON AND VAPOR INTRUSION SYMPOSIUM IN NASHVILLE, TN!

We are thrilled to have you join us for this exciting event, where we'll explore the latest developments, innovations, and insights in the field of radon and vapor intrusion. Over the next few days, you will have the opportunity to engage with experts, network with peers, and gain valuable knowledge that will advance your understanding of the industry devoted to protecting occupants indoors.

Our agenda is packed with reports on some of the latest developments in measurement and mitigation for vapor intrusion and radon, including the 2023 ANSI-AARST standards, from over 90 speakers across plenary sessions and tracks focused on Practice & Policy, Science & Research, and States & Tribes. There will be opportunities to learn about the latest information on federal and state agency actions to reduce exposure and AARST's collaboration and advocacy. Whether you're a seasoned professional or new to the field, there's something here for everyone.

To put together a symposium of this magnitude together is no small task. To that end we would like to thank our symposium planning committee and especially its Co-chairs Dawn Oggier and Duane West. Dawn and Duane worked for months to contribute to this internationally recognized event. Lastly, we want to acknowledge the AARST team who worked tirelessly to stand up this event, led by Symposium Manager Nicole Chazaud.

Nashville is not only known for its vibrant music scene but also for its warm hospitality. We hope you take some time to explore the city's cultural attractions, delicious cuisine, and friendly atmosphere while you're here.

Thank you for being a part of the AARST Symposium. We encourage you to make the most of your time with us, connect with fellow attendees, and share your experiences on social media using the hashtags #IndoorEnvironmentsNashville #RockingOutRadon #AARST and #IndoorEnvironments. Together, we can make this symposium a memorable and enlightening experience.

If you have any questions or need assistance during your stay, our staff and volunteers are here to help. Enjoy the symposium, enjoy "Music City", and let's make this event one to remember!

Warm regards,

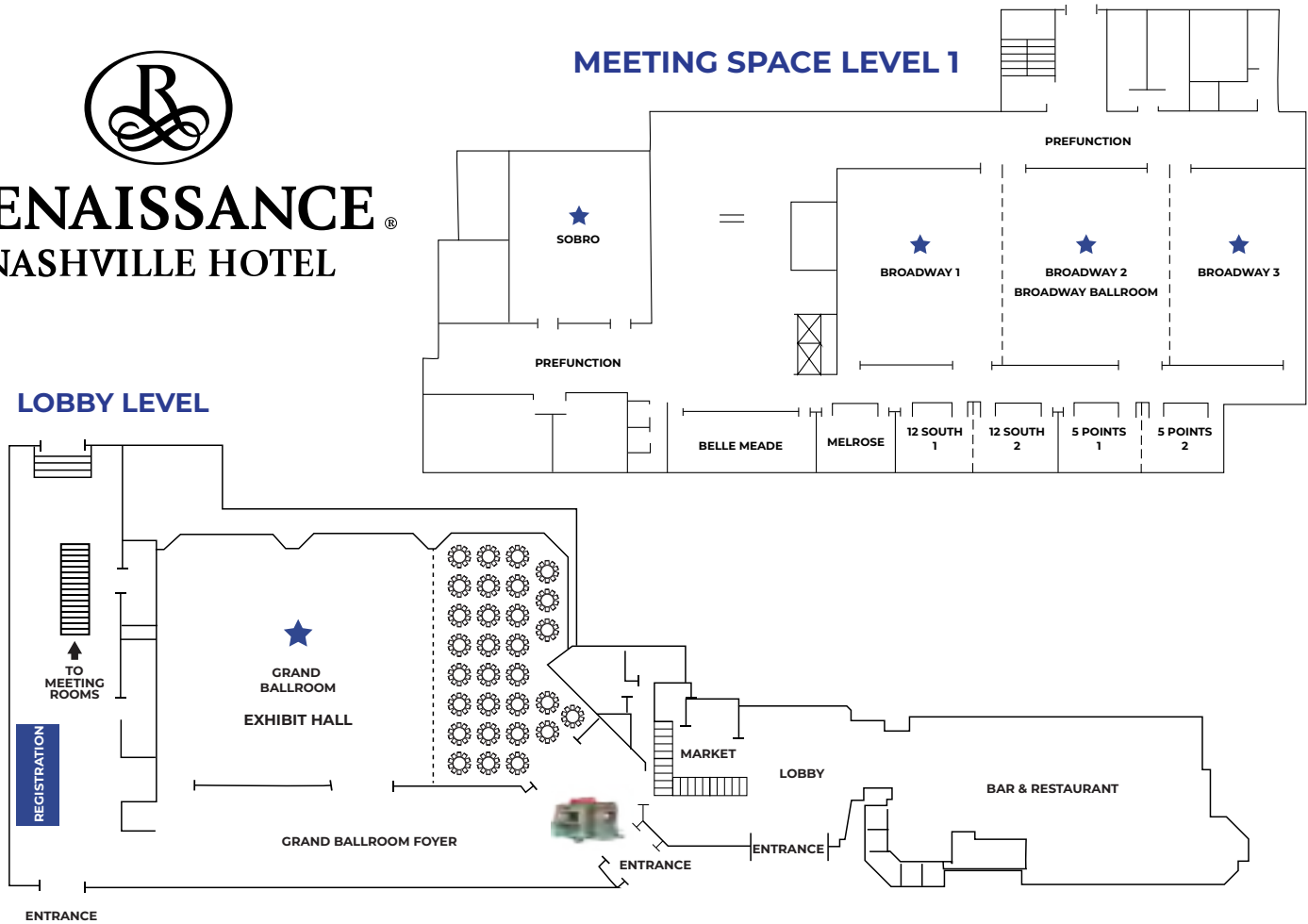
Diane Swecker
AARST Executive Director



Kyle Hoylman
AARST President



★ hotel map



Sunday

6:00-8:00 PM Opening Reception (Grand Ballroom)

Monday

8:00-10:00 AM General Session (Broadway 1,2,3)

10:45-12:00 PM General Session (Broadway 1,2,3)

10:45-12:00 PM Vapor Intrusion (SOBRO)

12:00-1:30 PM Lunch, Exhibits*

1:30-5:00 PM General Session (Broadway 1,2,3)

Vapor Intrusion (SOBRO)

5:00-6:00 PM Line Dancing Social

Tuesday

8:00 AM-12:00 Practice & Policy (Broadway 1,2)

Science & Research (Broadway 3)

States & Tribes (SOBRO)

12:00-1:30 PM Lunch, Exhibits*

12:30 - 1:30 PM CRCPD & AARST Awards, Followed by AARST Business Meeting

1:30-5:00 PM Practice & Policy (Broadway 1,2)

Science & Research (Broadway 3)

States & Tribes (SOBRO)

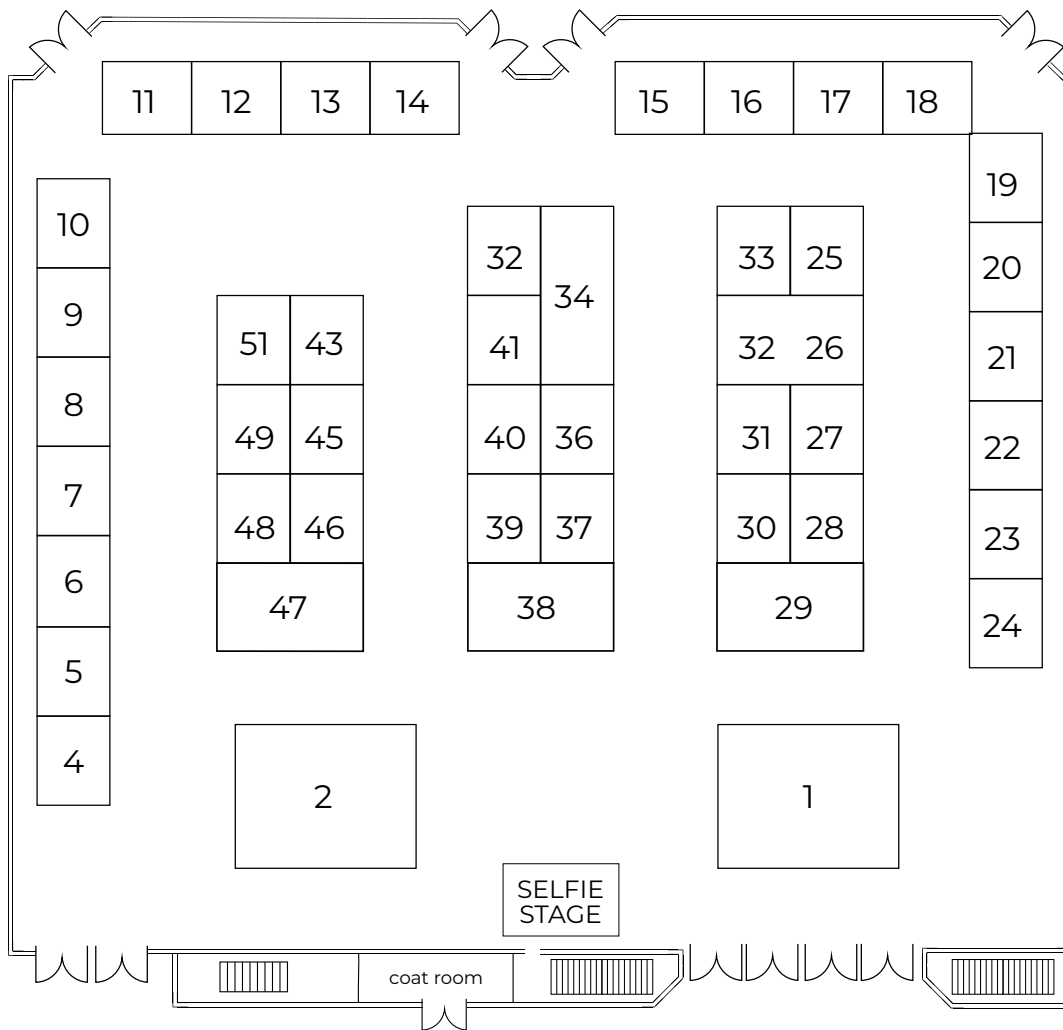
Wednesday

8:00-11:00 AM Proctored Exams: (registration required) (SOBRO)

8:00-11:30 AM Wednesday General Session (Broadway 1,2)

**All Breaks and Poster Sessions take place in the Exhibit Hall*

exhibitor booths



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KEYNOTE SPEAKER

Steve Diggs (CSP) is the founder of six businesses; he led his own advertising agency and broadcast production firm for 25 years. Early in his business career, over two decades ago, at age 27, Steve was diagnosed with significant heart disease and later underwent 5 heart bypasses (and at one time was given only one to two years to live). In 2000, he sold his businesses with a mission to go from personal success to significance in other people's lives. Since then, he has become an internationally recognized author and speaker. His Fast-Forward Leadership Programs™ keep Steve's clients on the cutting edge of industry best practices. Nashville-based, he travels the world as a sought-after keynote and

breakout speaker and corporate leadership trainer. Steve possesses the National Speakers Association's Certified Speaking Professional (CSP) designation, which is considered the highest earned credential in the speaking industry. He has been a trainer in the US Army's Master Resiliency Program and is an inductee to the Motivational Speakers Hall of Fame.

Steve is a bestselling author of eleven books and 100's of published articles who inspires his audiences with wit, storytelling, and an encyclopedic knowledge of leadership strategies, branding and communication skills...and lots of laughs. He is the keynote speaker on October 30 at Indoor Environments 2023, Radon and Vapor Intrusion Symposium.



Fundraising continues Sunday Evening through Tuesday. Bid in a Silent Auction for your chance to win a beautiful diamond bracelet!

Visit Crystal Lytle at the Fantech booth # 47 during Exhibit Hall times to place bids.

**When:
Opening Reception: Oct. 29th 6 - 8 PM
Breaks: Oct. 30th & Oct. 31st**

**Winner is announced
Tuesday, 3:30 PM**

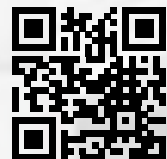
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speakers



LINDA AGUIRRE has a Degree of Master of Science in Business and Economics with a major in marketing. She works as a Business Developer for The Eurofins Global Radon Competence Center located in Sweden. She is responsible for the business globally and has extensive knowledge in how radon is handled around the world.



AHMET BULBULKAYA, is an Environmental Fellow for TDEC's Division of Remediation and is one of the main authors of a new vapor intrusion guidance specific to Brownfield projects being managed under the State's Voluntary Cleanup, Oversight and Assistance Program (VOAP). He provides technical advice and assistance on a variety of VI issues including characterization and mitigation.



ASHWIN ASHOK, PhD, is an Associate Professor in the Dept. of Computer Science at Georgia State University. His work spans areas in communications and networking, autonomous and robotic systems, environmental systems, and mobile health. He has founded and co-chaired the ACM Body-Centric Computing Systems (BodySys, previously WearSys) workshop. He is the recipient of the NSF CAREER award in 2022.



NATE BURDEN, Radon scientist-consultant 30+ years testing and mitigating over 5,000+ homes and systems, from single - multi family properties. Serves as AARST PA Chapter President. Volunteers on committees: NRAP program, ANSI/AARST standards committee, PA DEP Radiation Program Advisory Committee, PA Cancer Coalition and PA DOH Health Equity Committee. Awarded the 2021 Radon Hero Award by CRCPD.



ALEXANDRA BAHADORI, MS is a Radon Specialist with the K-State Radon Programs at Kansas State University. Managing the Kansas State University Radon Chamber, conducting device performance tests, spikes, and calibrations, she interfaces with the public via the EPA Radon hotline and is a radon instructor for the K-State Radon Program. She received her MS in Nuclear Engineering from the University of Florida in 2010.



DEREK COOPER has a B.S. in environmental health and a Master of Public Health from the University of Georgia. After working as a contractor for EPA for several years he became the radon educator with UGA extension, which he has worked with for five years.



GUNNAR BARR, President of Obar Systems, specializing in Radon and VI Mitigation since 1985. He developed the original radon blower with RB Kanaflokt in 1987 and created the GBR series blowers, alarms, and EDG telemetry for radon and VI. He is an instructor at Rutgers University for Vapor Intrusion and Radon Certification and a Technical Advisor to NJDEP Vapor Intrusion Guidance.



JOHN DEROSA is a Senior Director at the American Lung Association and has been working on the organization's radon initiatives for the past 16 years, with a focus on education and outreach.



LILA BECKLEY is a SR Associate Geologist with more than 25 years of experience in the environmental industry. Her focus areas include vapor intrusion, regulatory compliance, and litigation support. She has led numerous VI assessment and mitigation projects around the U.S., conducted applied research, developed guidance and training programs, and authored several peer-reviewed articles on VI.



ELEANOR DIVVER, the Radon Program Manager for Utah, worked in the radon world in the 90s for Salt Lake County Environmental Health and now for the State. She taught Environmental Science and Introduction to Public Health at the University of Utah for 22 years. Most importantly she has three amazing daughters, a great husband, and an adorable dog.



JENNIFER BORSKI, Wisconsin Dept. of Natural Resources Vapor Intrusion Team Leader. The VI team identifies policy issues, develops guidance, and provides training. She is an instructor on the ITRC's Vapor Intrusion Mitigation Jennifer previously regulated the investigation, cleanup, and redevelopment of contaminated properties in Wisconsin. She graduated from UW-Eau Claire in 1996 with a B.S. in Geology and Mathematics.



KATHRYN DIXON has a Master of Science in Environmental Health degree from Johns Hopkins University. Her thesis research, under the advisory of Dr. Paul Locke, assessed the public health effectiveness of a piloted approach to radon mitigation in Pennsylvania. She is now pursuing a PhD in Environmental Health Sciences.



JOHNA BOULAFENTIS has lead air quality outreach and education activities on the Nez Perce Reservation for over 18 years. She also conducts indoor environment and health research with agencies and universities. In 2020, the Nez Perce Tribe received their first SIRG funding. Johna appreciates the passion and dedication of the radon community.



CHRIS FERGUSON is the Director of Products and Laboratory Operations at Protect Environmental. In addition to leading the laboratory operations for Protect, Chris utilizes his skills and experience from the last 18 years in the industry to identify new and existing opportunities for technological advancement and directs the research and development process to bring these solutions to market.



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speakers



AARON FRIEDRICH has experience with the US EPA and multiple state-led environmental regulatory programs. He has significant technical expertise with an emphasis in complex site investigation activities, soil and groundwater investigations and remediation, and VI risk assessments and mitigation. He is an ERM Subject Matter Expert on VI assisting clients worldwide since 2006.



BRIAN HANSON is currently the Director of the K-State Radon Programs, housed in the Industrial Extension Programs Department, College of Engineering. Mr. Hanson has been with Kansas State University since 2002. Mr. Hanson is the primary instructor for the K-State Radon Programs radon classes, and oversees the K-State Radon Chamber laboratory.



BRIAN GIANCOLA has been a Radiation Physicist with the NJDEP's Radon Section for the last 3 years. He and his section oversee all radon measurement and mitigation done throughout the state. This includes the certification process, business inspections, public hotline calls, and grant programs. In his spare time he enjoys hiking with his wife and daughter.



HEIDI HANSON Group Lead of Biostatistics and Biomedical Informatics at Oak Ridge National Laboratory. She leads the DOE-National Cancer Institute MOSSAIC partnership, focused on advancing computing, predictive machine learning/deep learning models, and large-scale computational simulations for cancer research, including utilizing datasets to investigate links between environmental exposures, indoor radon, and cancer.



PHILLIP GIBSON is a seasoned environmental and public health educator with 30+ years of experience. He is passionate about empowering historically marginalized individuals and has dedicated 11 years as the North Carolina Radon Program Coordinator. His contributions include integrating radon-induced lung cancer into the NC Cancer Control Plan and the NC State Health Improvement Plan.



DAVE HILL, is Chief Revenue Officer of Spruce Environmental Technologies, Inc. He is responsible for the overall revenue growth strategy of all Spruce brands and divisions. A former radon mitigation contractor, he is a Past President of AARST, Past President of the New England Chapter of AARST, current Vice President of AARST, and Board member of the Basement Health Association. He also serves on ANSI/AARST Standards committees.



DAVID GILLAY, Partner with Barnes & Thornburg, heads the Remediation, Redevelopment, and Environmental Transactional Practice Groups and provides environmental counseling with assessing environmentally challenged properties. He also represents an influential multi-state environmental consultants' assoc. and works closely with leading technical experts on environmental matters, including rapidly evolving vapor intrusion guidance



GARY HODGDEN first engaged radon testing and mitigation services in 1987. Across 25 years, he directly participated in more than 30,000 radon tests and 20,000 mitigation projects. In 2012, his son took over the local business as Mr. Hodgden began devoting his time to AARST/AARST Standards. His work includes convening committees to collaboratively produce AARST/AARST standards.



CAROLINA GOMEZ has over 20 years of low-income housing experience; she has worked in the private and public sector as Property Manager, Portfolio Manager, Maintenance Manager and currently is the Director of Integrated Facilities and Safety for Home Forward (The Housing Authority of Portland). She currently leads the Environmental and Emergency Management efforts for her organization.



KYLE HOYLMAN, AARST President, co-founded Protect Environmental in 2005 and serves as Managing Partner. He has led the company in the completion of more than 180,000 radon and chemical VI projects, developing several proprietary systems for vapor mitigation and management of long-term stewardship at radon and chemical VI sites. Kyle serves on multiple committees, including the EPA Vapor Intrusion.



ELLEN J. HAHN, PhD, RN, FAAN, Professor in the Colleges of Nursing and Public Health at the University of Kentucky and is Director for UK-CARES and Occupational and Environmental Health Nursing Core of the Central Appalachian Regional Education and Research Center and BREATH, a community-engaged environmental health outreach and research program, focusing on risk reduction from tobacco use and radon exposure.



PHILLIP JENKINS, PhD, CHP (Emeritus) has served on the Board of AARST in every position including resident and is a Fellow of the Health Physics Society. This year, Phil received the Radon Hero Award from the CRCPD. He has been at Bowser-Morner's radon reference facility since 1991. His current focus areas are national standards and quality assurance of radon measurements.



DR. WILLIAM HANEBERG is a New Mexico-based geologist consulting, and performing collaborative research at the geohazard-climate-policy nexus. His 35-year career includes projects from the ultra-deepwater seafloor to remote Pacific islands to the high Himalayas. He was the 13th state geologist of Kentucky, director of the Kentucky Geological Survey, and a research professor in Earth & Environmental Sciences at the University of Kentucky from 2016 to 2023.



DALLAS JONES, VP, Ecosense, previously served as Exec. Director of AARST-NRPP where he spearheaded national radon data collection for the CDC, secured the adoption of AARST voluntary consensus standards by the EPA, HUD, and 20 state radon programs while earning accreditation of the NRPP by the American National Standards Institute for the International Organization for Standardization (ISO) 17024.

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KAI KALETSCH holds a M.Sc. in Nuclear Physics and has worked in radiation safety for 30 years. As President of Environmental Instruments Canada Inc., he is responsible for developing innovative radiation measurement instrumentation.



MICHAEL KITTO is a retired research scientist from the New York State Health Laboratories and an assistant professor for the State University at Albany. Most of his research focused on the occurrence of radon and other radionuclides in air and water, resulting in 50 journal publications and 60 speaker presentations. Dr. Kitto is a 30-year member of AARST and a former AARST Board member.



JESSICA KARNS joined A-Z Solutions in 2010 as the National Sales Director, bringing with her over a decade of experience. Since 2014, she has been an officer and board member of the OARP (Ohio Association of Radon Professionals). In 2015, Jessica was appointed to The National Testing Standard Review Committee where she continues to work with other radon professionals to strengthen industry standards.



KATRIN KRAL is a senior environmental health leader within EPA's Indoor Environments Program in the Office of Radiation and Indoor Air. She has over 20 years of experience advancing national environmental programs to improve air quality and public health at the US EPA.



MARC KATZ is responsible for planning radon outreach and education activities for the Indoor Air Unit at the Minnesota DOH. He has also worked as the Evaluation Coordinator at the University of Minnesota and the Cancer Coalition Coordinator for the Hunterdon County Health Department in New Jersey. He received his M.P.H. at Rutgers University in epidemiology and health education and a B.S. at Rutgers University in environmental science.



MICHAEL LAFONTAINE is a federally licensed Professional Physicist with 30+ years of experience in the radon industry. Serving on multiple committees including; AARST's MS-QA, Measurement, Technical & Scientific, and Standards Assistance Committees; he is also Co-chair of Health Canada's - CGSB Working Group 1 Committee. His current focus is regarding Technical Evaluations & QA.



MITCHELL KELLEY, I'm a part of my family business in Southern Minnesota that specializes in Radon and Wet Basement Repair. I'm currently the President of the NorthStar Chapter of AARST and an instructor for the KSU Radon Program. I'm a cancer survivor that's proud to be in an industry that focuses mainly on improving and extending the lives of people around us.



LONGXIANG LI, Sc.D., Research Associate at the Dept. of Environmental Health in Harvard T. H. Chan School of Public Health. He has been using cutting-edge data science methods to improve assessing residential exposure to environmental pollutants, including radon and agents associated with fracking.



JOSHUA KERBER, Environmental Research Scientist for the Minnesota DOH. Working in radon since 2002, he has worked on the implementation of the Minnesota Radon Awareness Act and the Minnesota Radon Licensing Act. He assists MN contractors with radon and vapor intrusion mitigation. He serves on many national radon standard workgroups, including CRCPD's E-25 committee on radon.



BILL LONG is a supervisor in EPA's Indoor Environments Division



TERRY KERWIN is NRPP-certified mitigation and measurement professional licensed in CO. After losing a friend to radon-induced lung cancer Terry leads with passion and purpose. She serves on the AARST Gov't Affairs Committee, served on the National Board, and as President and Treasurer of the Rocky Mountain Chapter. She is currently the National Director of Business Development at Protect Environmental and former owner of Reliant Radon Solutions.



CRYSTAL LYTLE is the Radon Sales Manager for Fantech and is Chair for the AARST Foundation. A strong advocate for radon awareness, she is passionate about educating people about the risks and long-term effects of radon. She has organized and held several educational meetings and classes to further awareness. Crystal has served in numerous leadership roles with AARST.



JOSHUA L. KEYES watched his Aunt go through her lung cancer journey which sparked him to become a radon and lung cancer agent of change regarding awareness. He founded Genesis Creation Project, a nonprofit focusing on education surrounding pets, radon, and environmental issues. As a minister, his goal is not only radon education but to lead others to take personal initiatives to build stronger communities.



DANE MALMBERG, National Representative for Viper CS Vapor Barriers, has spent the last 13 years with ISI Building Products. His focus is residential moisture control, primarily in crawl spaces and basements. As a trusted resource for best practices, he provides training on crawl space encapsulations, covering everything from building science to hands-on installation techniques.



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JANE MALONE leads efforts to support industry-led public policy advocacy at the national, state, and local levels, strengthen related standards, codes and other policies, prompt Congressional and federal agency action, and build the evidence base for effective risk reduction. She joined the AARST staff as National Policy Director in 2015.



DR. LEO MOORMAN has a background in theoretical and experimental atomic physics. He worked at SUNY, Stony Brook, and the University of Wyoming and founded Radon Home Measurement and Mitigation in 1998. He has mitigated radon in the homes and buildings in five states and given several talks and courses on radon related topics at previous symposia.



PHIL MCDONNELL is a senior executive with 25 years of success achieving revenue, profit, and business growth objectives within the residential and commercial service industries. He is currently the VP of Sales for SWAT Environmental. Phil is also President of the Tennessee Chapter of Indoor Environments Association / AARST and a member of the AARST Nominating Committee.



ANNE-MARIE NICOL, Ph.D., Research and practice span the areas of epidemiology, cancer prevention, knowledge translation, and environmental health with specialties in radon exposure. Dr. Nicol has worked extensively across Canada to establish new radon testing programs, educate public health professionals, build awareness in the public, change policy.



SUSAN MCKINLEY PE, has over 18 years of experience at the Indiana Department of Environmental Management (IDEM). She worked as an Environmental Engineer in IDEM's office of Land Quality before moving to the Risk Assessment group and transitioned to lead the Science Services Branch, and is a member of IDEM's various Workgroups including Technology Evaluation R2 Closure Guidance, PFAS and VI.



DAWN OGGIER, Symposium Chair, Manager of Market Development with RadonAway, and an AARST BOD. Dawn has owned a full-service environmental firm for 12 years. In addition to cleaning up hundreds of vapor intrusion sites, she has installed 1,000s of radon mitigation systems. She enjoys teaching others how to measure, mitigate, and troubleshoot radon and vapor intrusion mitigation systems across the country.



RANDY MCNALLY is the esteemed Lieutenant Governor of Tennessee, serving in this pivotal role since January 10, 2017. Born in Oak Ridge, Tennessee, McNally has dedicated his life to public service and the betterment of his state. With a strong background in business and politics, he has worked to promote fiscal responsibility, support education initiatives, and advocate for the welfare of Tennessee's citizens.



LAURYN OGGIER owns Radon Group, a specialized firm focusing on Radon Measurement and Mitigation. As a young woman within this sector, she recognizes the lack of awareness about radon among her peers. Lauryn's mission revolves around educating individuals of her generation about the significance of testing their residences for radon, conveying the urgency of environmental health and radon gas exposure.



JUSTIN MEREDITH, an Environmental Fellow at Tennessee Department of Environment and Conservation Division of Remediation (TDEC-DoR), has extensive experience in addressing VI-related issues through remediation, mitigation, and risk assessment. He serves on numerous councils and committees including the Interstate Technology and Regulatory Council the Association of State and Territorial Solid Waste Management Officials.



JARA POPPINGA, Program Coordinator with Oregon Health Authority's Environmental Public Health Section. Poppinga has 6+ years of experience in community engagement, program coordination, and project management. She has worked with various state-level environmental health programs, including the Oregon Radon Awareness Program. She supports state and local radon awareness and education.



DAVID METZGER, owner of 1st Option Radon Measurement located in Northeast Ohio, specializes in radon measurements and mitigation in single-family homes, measurements in multi-family homes, schools, commercial, multi-use buildings, and government facilities. An instructor with Spruce Environmental Services, Inc. he serves on several ANSI/AARST Standards committees and is a member of the NRPP Certification Council.



DAN POTTER has had the opportunity to lead various fast-paced home services companies, large and small. He holds certifications in building science and building trades, plus bachelor's and master's degrees. He co-owns one of the Midwest's larger mitigation companies and currently serves as Treasurer for AARST, Vice President of Midwest AARST, and President of the Illinois Radon Policy Taskforce.



COREY MILLS, Senior Account Executive for Mills Environmental Insurance Services, LLC. Corey began working for the agency in 2012 on a part-time basis, and joined the agency full-time in 2017 upon graduation from the University of North Georgia. Throughout the years Corey has gained vast experience insuring businesses in the environmental and renewable energy sector.



SHAWN PRICE, Director of Laboratory Operations for Spruce Environmental Technologies, Inc. oversees the operations of three facilities, Air Chek and AccuStar's PA & MA locations. Former AARST President and current Chair of the Standard Management Council (SMC), Mr Price is also the Chair of the ANSI standard workgroup on radon measurements in schools, single family, and multifamily buildings.



AARST's Indoor Environments 2023™ – The Radon and Vapor Intrusion Symposium is the largest gathering of practitioners, training providers, researchers, regulators, technicians, and manufacturers in radon and vapor intrusion in the US. AARST is convening its 37th annual gathering for hundreds of attendees seeking to learn, share, and network. Indoor Environments 2023™ will offer concurrent technical tracks focusing on Practice and Policy, Vapor Intrusion, Science and Research, and training for State Radon Programs. The agenda, speakers, and topics are determined at the culmination of a public “call for presentations” with thoughtful input from the Symposium Committee and AARST leadership regarding additional important topics. Peer-reviewed and invited presentations will deliver the latest testing and mitigation techniques, scientific findings, recently revised standards, emerging public policies, and current approaches to community outreach and education programs.

Social Times and Fun for Family and Friends The social opportunities offered are indispensable. Whether it is eating lunch with someone, connecting with colleagues, or engaging with presenters after sessions, the social times built into each day are great! In addition, the Nashville Day Out Tour for Friends and Family offers a fun time, getting to see the famous sights of Nashville, eating lunch together at a Nashville-Style Eatery, and strolling back up Broadway checking out performers already on stage, on their way back to the hotel.

Sunday, October 29, 2023

SUNDAY C.E. CONTINUING EDUCATION

8:00 AM – 12:00 PM

Radon Mitigation Standards Overview Course
 Controlling Radon Decay Products: Too Complicated or a Silver Bullet?

1:00 PM – 5:00 PM

Radon Measurements Standards Overview Course
 Vapor Intrusion Mitigation Case Studies - Diagnostics to Completion
 Advanced Design & Diagnostics

8:00 AM – 5:00 PM

Mitigation Compliance Inspector Initial Training

★ 6:00 – 8:00 PM OPENING RECEPTION ★

MONDAY, OCTOBER 30, 2023

GENERAL SESSION (BROADWAY BALLROOM) 8:00 – 10:00 AM

8:00	Welcome & Leadership Updates	Kyle Hoylman (AARST), Joshua Kerber (CRCPD), Katherine Pruitt (NRAP)
8:35	Revised Standards – Significant Changes in Mitigation Standards	Shawn Price
8:45	NRPP Updates and The Certification Council	Amy Roedl, Ashley Falco
9:15	Building Brand You! (Keynote)	Steve Diggs
10:00	Tennessee Welcome	Lt Governor Randy McNally, introduced by TN Chapter President Phil McDonnell

BREAK, EXHIBITS, AND POSTERS 10:00 - 10:45 AM (EXHIBIT HALL)
 POSTER: The Evolution of Radon Lending Libraries *Anne-Marie Nicol*

GENERAL SESSION (BROADWAY BALLROOM) 10:45 AM – 12:00 PM <i>AV SPONSOR - PDS RADON SUPPLY</i>			VAPOR INTRUSION (SOBRO) 10:45 AM – 12:00 PM <i>AV SPONSOR - SWAT</i>		
10:45	A Review of Multiple Consumer Digital Monitors at Three Radon Exposure Levels	Alexandra Bahadori M.S. Brian Hanson M.S.	10:45	Summary of State Approaches to Vapor Intrusion — 2023 Update	Lila Beckley
11:05	Federal Agency Updates	Bill Long (EPA) Glenn A. Schroeder (HUD)	11:05	A Regulator's Perspective —Lessons Learned in Characterizing Soil Gas	Susan McKinley
11:30	Young Radon Professionals / The Next Generation	Ryan Dahvaling Brian Giancola Mitch Kelley Lauryn Oggier Kaber Robinson	11:20	Wisconsin's Vapor Intrusion Zone Contract — Partnerships, Public Outreach and Passive Sampling	Jennifer Borski
			11:40	Update on TCE Exposure Toxic Tort Litigation	David Gillay

LUNCH & EXHIBITS 12:00 – 1:30 PM

GENERAL SESSION (BROADWAY BALLROOM) 1:30 – 5:00 PM			VAPOR INTRUSION (BROADWAY BALLROOM) 1:30 – 5:00 PM		
1:30	Sometimes, Maybe, It Depends — My life is/has been a gas!	Bruce Snead	1:30	Panel Discussion — Current Events in VI	David Gillay (Moderator)
1:50	From Mapping of Radon in Soil to Inventory of Radon Indoors — The Swedish Story	Linda Aguirre			Susan McKinley Jennifer Borski
2:10	Spotlight on Chapters	Shad Evans	2:00	Soil Gas Entry Relative to Natural and Mechanically Induced Negative Pressure	Gary Hodgden
			2:20	Post-Mitigation Verification – Confirming Vapor Mitigation System Effectiveness	Aaron Friedrich
2:30	Latest Laws — CO Tenants and Buyer Warning, IL Renter Warning, MD Renter Protection	Terry Kerwin Dan Potter Deise Rezende	2:40	Measuring the Last Mile for Vapor Mitigation — Real-Time Remote Monitoring of the Sub-Slab Pressure Field	Chris Ferguson

BREAK, EXHIBITS, AND POSTERS 3:00 - 3:45 PM (EXHIBIT HALL)
 POSTER: Quantifying Radon Exposure: A Nationwide Community-Level Assessment in the United States *Longxiang Li*
 POSTER: Demonstration of Centrifugal Vortex Separation of Indoor Radon *Mark Whitehead*

3:45	Strategies for Increasing Tenant Protection from Radon	Jane Malone Katherine Pruitt	3:45	TN Vapor Mitigation Guidance — One Year Later	Ahmet Bulbulkaya Justin M. Meredith
4:05	Crawl Space Methods	Dane Malmberg	4:20	Community-Specific Attenuation and Factors Point of Compliance for Vapor Intrusion	Henry Schuver
4:25	Premier Youth Ambassadors	Kathryn Dixon, Joshua Keyes, David Trent, Mia Ray, Tanya Yu	4:40	Sources of Contamination and Relationship to Radon Mitigation	Barry C. Westbrook, CIH, PE

ADJOURN 5:00 PM

★ **KICK UP YOUR HEELS! LEARN TO LINE DANCE - EVERYONE WELCOME** ★
 5:00 - 6:00 PM (GRAND BALLROOM FOYER)

TUESDAY, OCTOBER 31, 2023

PRACTICE & POLICY (BROADWAY 1,2) 8:00 AM – 12:00 PM			SCIENCE & RESEARCH (BROADWAY 3) 8:00 AM – 12:00 PM			STATES & TRIBES (SOBRO) 8:00 AM – 12:00 PM		
8:00	How to Increase Your Market Using the Internet	Peter Ruchti	8:00	Evaluation of a Pilot Radon Detector Lending Program in Four Rural Public Libraries	King Simpson	8:00	Mapping Estimates Of Residential Radon Exposure at Small Spatial Scales	Heidi Hanson
8:25	Best Hiring Practices	Brent Ulbert	8:25	Geologically Based Correlation of Rock and Indoor Radon Levels in Eastern Pennsylvania	Brian M. Yang	8:25	Portland Housing Authority's Lesson on Working in Multifamily Housing and Vulnerable Populations	Carolina Gomez
8:45	Insurance Liability	Corey Mills	8:45	Long-Term Testing Reveals Interesting Seasonal Variations	Dr. Phillip Jenkins David Metzger	8:45	Offering Radon Counseling and Tests Via the North Dakota Radon QuitLine	Gary Schwartz
9:05	Lessons Learned in Mitigation	Dawn Oggier Duane West Michael Smith	9:05	Radon Levels During Working and Non-Working Hours	Tryggve Rönqvist	9:05	Neighborhood Socioeconomic Disparities in Radon Testing Rates in North Carolina from 2010 to 2020	Zhenchun Yang, PhD
9:40	Weather Anomalies and Radon Measurements	Joshua Kerber	9:25	Radon-in-Water and Thoron Measurements with a Radon Sniffer	Kai Kaletsch	9:25	Use of Radon Risk Messaging with High Lung Cancer Risk Individuals in the Primary Care Setting	Stacy Stanifer

BREAK, EXHIBITS, AND POSTERS 10:00 - 10:45 AM (EXHIBIT HALL)

POSTER: Geological, Seasonal, and Atmospheric Conditions Affect Home Radon Intrusion *Ellen Hahn, for William Hanenberg*

10:45	AARST 101	Dawn Oggier	10:45	Residential Radon Sampling in Puerto Rico	Oleg Povetko, PhD, CRMP	10:45	Developing Education Materials for Childcare Providers	Jara Poppinga (OR)
11:05	Distributed and Optimized Sub-Slab ASD	Gary Hodgden Leo Moorman	11:05	Radon by the Numbers	Mark Whitehead	11:05	Social Media Outreach Planning	Marc Katz (MN)
11:25	Summary of Solutions for 175 Active Mitigation Failures	Keith Volsted	11:25	Simulation and Empirical Modeling of Soil Radon	Ashwin Ashok	11:25	North Carolina Social Media and Marketing	Phillip Gibson (NC)
11:45	HUD	Glenn A. Schroeder						

LUNCH & EXHIBITS 12:00 - 1:30 PM

**CRCPD & AARST AWARDS 12:30
AARST BUSINESS MEETING TO FOLLOW (GRAND BALLROOM 1)**

NOTES: _____

TUESDAY, OCTOBER 31, 2023 (CONTINUED)

PRACTICE & POLICY (BROADWAY BALLROOM 1,2) 1:30 - 5:00 PM			SCIENCE & RESEARCH (BROADWAY BALLROOM 3) 1:30 - 5:00 PM			STATES & TRIBES (SOBRO) 1:30 - 5:00 PM		
1:30	Houses from Heck: Optimal Mitigation	Joshua Kerber Chad Robinson	1:30	Growth, Sustainability, and Impacts of Citizen Scientist-Led Radon Coalitions in Rural Communities	Ellen Hahn	1:30	Georgia Radon Program Update	Derek Cooper (GA)
2:00	Installing Consumer-Grade Electronic Radon Devices as Post-Mitigation Active-Alert Monitors	Dallas Jones	1:50	Reducing Lung Cancer Risk From Radon Exposure in Manheim Township, PA: RRNC A Significant Public Health Tool	Yiguang Zhu	1:50	CRCPD Update and Response to FHFA	Kimberly Steves
2:20	Pressure Field Extension	Gunnar Barr	2:10	Evaluating the Electret Radon Progeny Integrated Sampling Unit for Use Measuring Radon and Radon Progeny in a Cave Environment	Lawrence Welch	2:10	Nez Perce Tribe Radon Program Update	Johna Boulafentis
2:40	Results from the Association's 2023 Survey of Measurement and Mitigation Professionals	Jane Malone	2:30	Progress in Testing, Public Education, and Mitigation of Radon in Indoor Air and Well Water in Georgia during the Last 10 Years	Uttam Saha	2:30	Navajo/Tribal Update	Vivian Craig Darlene Jenkins

BREAK, EXHIBITS, AND POSTERS 3:00 - 3:45 PM (EXHIBIT HALL)

POSTER: The Importance of ALARA for the Radon Professional *Nate Burden and Michael LaFontaine*

3:45	Diagnosing and Mitigating Radon Sources in Difficult Buildings	Jessica Karns				3:45	Radon — I Didn't Know	Kerri Robbins (UT) Eleanor Divver (UT)
4:20	Emerging Standards: OM&M and Mitigation of Radon in Water	David Grammer Susan McKinley						
4:40	Case Study for Giant Suction Pits for Large Building, Multi-Family and Industrial	Ralph Quin Tim Pittman						
						4:15	White Ribbon Project	Crystal Lytle

ADJOURN 5:00 PM

WEDNESDAY, NOVEMBER 1, 2023

GENERAL SESSION (BROADWAY BALLROOM 1,2) 8:00 - 11:30 AM			PROCTORED EXAMS: MEASUREMENT AND MITIGATION REGISTRATION REQUIRED (SOBRO) 8:00 - 11:00 AM		
8:00	Radon in Water – A Deep Dive (Standards, Collection and Measurement, Analysis and Mitigation)		Michael Kitto, David Grammer, David Hill		
BREAK 10:00 - 10:20 AM					
10:20	ALA Poster/Video Contest		John DeRosa		
10:40	EPA Credentialing Criteria Status Update		Katrin Kral, Bill Long		
11:20	Closing – Wrap Up		Diane Swecker, Josh Kerber, Dawn Oggier, Duane West		

ADJOURN 11:30 AM

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social activities

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Free Line Dancing Lessons!

Monday, October 30th, 5:00 - 6:00 PM

Everyone is welcome! No tickets are necessary, there will be a cash bar.

Join attendees and bring your friends to learn how to line dance! Nashville Line Dance instructors will begin lessons in the Grand Ballroom Foyer at 5:00 PM. Have fun learning a few dance steps you can then take to the dance floors on Broadway. There will be a cash bar for this event.

Halloween Fun in the Exhibit Hall

Tuesday, October 31st, 3:00 – 3:45 PM

Come with a costume, or borrow one from the Selfie Stage, and have some fun in the exhibit hall!

Friends & Family Day Out – Tour Nashville

Tuesday, October 31st

Pre-purchased Tickets required

The tour starts with breakfast or coffee; tour participants walk to nearby breakfast eatery Rise Biscuits Donuts & Righteous Chicken, serving Southern favorites – Fried Green Tomatoes, Crispy Chicken, Breakfast biscuits etc. A 2-minute walk from the hotel, starts your day the Nashville way! (Breakfast \$ is not included in the tour price). The tour group Returns to the hotel to meet the bus for a 9:30 pickup. Some of the things you can expect to see as part of a city tour are: Historic Lower Broadway, 2nd Ave/Market St, Nissan Stadium, Country Music Hall of Fame, Frist Center for the Visual Arts & Union Station, Vanderbilt University, Tennessee State Capitol, Bicentennial Park & Farmers Market, The Parthenon, where the group steps off the bus – for a photo op, Musicians Hall of Fame & Museum/GRAMMY Museum Gallery, Ryman Auditorium. The bus portion of the tour ends at (Lunch \$ is not included in the tour price) Where the group is dropped off at/ near the lunch stop, Acme Feed & Seed, a three-story venue with creative cuisine, cocktails & live music, plus a rooftop patio. After lunch, the group continues walking back to the hotel by way of The Broadway Honky Tonk Music Stroll (walking). The stroll is a 4-block walk that takes you past almost 20 Honky Tonks, boot shops, souvenir shops and specialty snack shops. Honky Tonks are long narrow spaces, very crowded, with great music from the next famous stars, you can listen to them during the days without a cover charge, though musicians have buckets they pass around and even Venmo!



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- 3 Fill in your card with the correct answer
- 4 Go back to each exhibitor and get your answer approved
- 5 Submit a full - correct playing card for your chance to win Scavenger Hunt!

speakers



KATHERINE PRUITT is the National Senior Director for Policy at the American Lung Association, overseeing national policy initiatives on outdoor and indoor air quality. She serves as project lead for the Lung Association's seminal annual report State of the Air, and heads the National Radon Action Plan Leadership Council. She holds a B.A. in biology from Earlham College.



KABER ROBINSON is Lead Mitigation Installer and Marketing Director of Building Performance Co. and Radon Solutions. He is NRPP and state of Kansas certified in both measurement and mitigation and has designed and installed hundreds of radon mitigation systems in Kansas and Utah. Kaber also holds an ASE certification for Auto Body work and is an advocate for non-traditional learning.



OLEG POVETKO holds a PhD in Radiation Health Physics from Oregon State University. After joining USEPA in 2009, Dr Povetko's responsibilities included regulatory compliance with facilities' radiological air emissions, human radiation dose & risk analyses, radon/thoron sampling & evaluation at radioactively contaminated sites and impacted residences & businesses, radiological and nuclear emergency preparedness, service to Radnet ambient air radiation monitoring station.



AMY ROEDL brings over 20 years of experience in credentialing to her role as the NRPP Proficiency Director. Her experience in developing, maintaining and accrediting certification programs will support NRPP's credentials and promote valid, reliable and fair certification programs.



RALPH QUIN is the President of Quin Company, director of operations, sales, contract oversight, project development, and finance. Aircavator Tools Inc. is a manufacturer of specialized excavation systems. Our systems are used in industry applications with issues like restricted access excavation, need to operate around an object from a fixed point, and damage-free excavation to buried underground systems.



TRYGGVE RÖNNQVIST, PhD, Technical Manager of Radonova Laboratories AB in Sweden, has 25+ years of experience in radon measurements in a radon laboratory that has analyzed more than 3,000,000 passive radon detectors. He obtained his Ph.D. in nuclear physics from the University of Uppsala, Sweden. Radonova's Radon Specialist in the US and Canadian markets, he received the European Radon Association Award for 2020.



MIA RAYMIA RAY, recent Harrisburg University graduate, majored in Integrative Sciences, and served as SGA President, Rotary Club President, and NAACP Director of Outreach. Her research linked redlining to green space access. Now a Pulmonary Research Specialist at Penn State College of Medicine, she studies radon-induced lung cancer biomarkers and advocates for radon awareness in schools with old infrastructure.



PETER RUCHTI, founder of AdeptPlus Web Marketing, specializes in achieving online success for radon contractors. Evolving from a freelancer to leading a 15-strong team, Peter and his team optimize the web presence of numerous radon mitigation firms using strategic web design, SEO, and Google Ads.



DEISE REZENDE, with a career in the home inspection sector since 2005, founded Smart Home Inspects and Smart Home Radon. Her passion for household management and indoor air quality led her to offer radon testing services from the inception of Smart Home. As president of AARST MD Chapter, she actively works to raise radon awareness among legislators and real estate agents, advocating for safer homes.



DR. UTTAM SAHA, Senior Public Service Associate, equivalent to a Full Professor, at the University of Georgia. He directs the drinking water testing education program of the UGA Extension Service. The Chair of the Drinking Water and Human Health Community of Practice of the National Extension, he has authored around 100 journal articles and 28 Extension publications.



KERRI ROBBINS is a wife, mother and grandmother, she retired in October 2023 after being diagnosed with Stage 4 non-smoking lung cancer. Since then she's been on a mission to educate others and raise awareness of radon testifying at the Utah State Capitol, presenting her story at public forums in the Salt Lake area and is working to get legislation passed for all home buyers and renters.



GLENN SCHROEDER is a Program Analyst in the Office of Environment and Energy at the U.S. Department of Housing and Urban Development. In this role, he serves as the subject matter expert on HUD's contamination regulations as well as HUD's environmental review procedures. Glenn leads HUD's efforts to address radon exposure through its environmental review process and regulations.



CHAD ROBINSON is the founder of Building Performance Co. and Radon Solutions. NRPP and state of Kansas certified, he has designed and installed hundreds of radon mitigation systems. Chad is currently the Lead Radon Mitigation Trainer for the Kansas State Engineering Extension and holds active leadership roles as the current Treasurer of the Heartland Chapter.



HENRY SCHUVER, DrPH Epidemiology, MS Geology; In USEPA's RCRA-HQ office he authored the Human Exposures metric that created the expectation that RCRA cleanups will include an assessment of the potential for chemical Vapor Intrusion (cVI). To make cVI assessments more accurate, practical and health protective, he is incorporating Radon as a tracer of soil gas intrusion and significant health risk.



speakers



GARY G SCHWARTZ is Professor and Chair of Population Health at the University of North Dakota School of Medicine & Health Sciences. He holds a PhD in Biological Psychology as well as an MPH and a (second) PhD in Epidemiology. His research involves the effects of ultraviolet and of ionizing radiation and is involved in numerous studies of radon in North Dakota.



DAVID TRENT, a BS Neuroscience candidate at Case Western Reserve University, lost his mother, Helena, to stage four radon-induced lung cancer, inspiring him to found "RnFree," a charity that raises awareness and provides test kits for families nationwide. Having supplied 543 kits, and raised \$9,494, David hopes to continue by affiliating with radon test suppliers to minimize radon-induced deaths cost-effectively.



KING SIMPSON is the director of the Logan County Public Library in rural Southcentral Kentucky. King serves as the site principal investigator for the "Radon on the RADAR" project through the University of Kentucky, and is involved in numerous local and statewide efforts to improve the impact of libraries on their respective communities.



JOSEPH "JODY" TROPEANO, I have been in construction for 40 years now. I have worked residential, commercial, and industrial and started at the bottom as a union laborer in Atlantic City. I feel that working your way up is the best way to learn, especially from your mistakes, and that those experiences are irrevocable.



MICHAEL SMIT has worked in the radon industry for the past 20 years. He tries to understand the structure and the interactions of the soil, radon, and design of the structure. He has mitigated throughout New Mexico where some of the largest uranium reserves in the US are located. He has presented multiple times at the EPA Region 6 Radon Conference and at the National Radon Symposium.



BRENT ULBERT, owner/partner at PDS Radon Supply, specializes in radon mitigation product development, fulfillment, and technical support. Graduating cum laude from the University of Wisconsin-Madison in 2009 with a bachelors in Consumer Sciences and a certificate in business, he spent a decade in marketing with home contractors, helping them grow their businesses, which he shares with radon mitigators to this day.



BRUCE SNEAD, was Director of Engineering Extension from 2011 to 2023 and retired after 45 years of service at Kansas State University. Educating people with the best information available to meet their needs, he has worked to reduce radon risk since 1988 and received numerous awards for his efforts. His t-shirts are legendary and is certain the great radon team at KSU will continue to provide outstanding services.



KEITH VOLSTED is the founder and CEO of VSI Radon Reduction Corp., Illinois' largest radon mitigation company. Entering the radon field in 1987. A strong advocate of outreach of radon awareness and proper training in the radon field. Developed the first Illinois-specific radon licensing training course as well as continuing education courses



STACY STANIFER, PhD, APRN, AOCNS is an Advanced Practice Registered Nurse, a certified Oncology Clinical Nurse Specialist, and an Assistant Professor at the University of Kentucky College of Nursing. Her research interests concentrate on reducing exposure to two environmental carcinogens, radon, and secondhand smoke, as a means of cancer prevention.



LAWRENCE E. WELCH, Ph.D., Holds a B.S. from the University of Wisconsin at River Falls and a Ph.D. from Iowa State University. He is in his 34th year of teaching at Knox College in Galesburg, IL, where he is the Clara A. Abbott Distinguished Professor of Chemistry.



KIMBERLY STEVES retired in December 2022 as the Director of the Radiation Control Program for the State of Kansas where she oversaw multiple programs related to radiation health. She maintains Kansas certifications for radon measurement and radon mitigation. Ms. Steves is currently employed by the Conference of Radiation Control Program Directors, Inc. (CRCPD) where she works as a technical assistant.



DUANE WEST, Owner of 3Rs Construction and Healthy Home Club of America, has a background in remediation of mold, radon, mycotoxins, and remodeling and has been involved in the radon industry for 27 years.



DIANE SWECKER is new to the AARST team as Executive Director with a fresh perspective and a deep commitment to its mission. With 25 years of experience serving in multiple leadership roles in technical organizations Diane has a demonstrated track record in membership growth, oversight of certifications, supporting standards development and facilitating the work of diverse and talented teams.



BARRY WESTBROOK, CIH, PE founded DocAir in 2002 to diagnose sick buildings. Barry holds a Bachelor of Science in Mechanical Engineering Physics and maintains professional credentials including Certified Industrial Hygienist and Professional Engineer. DocAir promotes cutting-edge technologies and methods that optimize air quality, energy efficiency, moisture control, and comfort.

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Booth #16 **Aircavator**
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<https://aircavator.com>



Booth #37 **Airthings America Inc**
 451 S Main St Ste 220
 Fort Worth TX 76104-2401
<http://Airthings.com>



Booth #21-23 **Alpha Energy Laboratories, Inc.**
 2501 Mayes Rd Ste 100
 Carrollton TX 75006-1378
<https://aelabs.com>



Booth #10 **Bowser-Morner, Inc.**
 4514 Taylorsville Rd
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<https://www.bowser-morner.com/radon-reference-lab>



Booth #45 **Breeze**
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<https://discoverbreeze.com>



Booth #39, 40 **CERTI**
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 Flemington NJ 08822-7256
<http://www.certius.com>



Booth #46 **Citizens for Radioactive Radon Reduction, Inc.**
 2461 Brookledge Rd Apt 33A
 Bridgeville PA 15017-1642
<https://citizensforradioactiveradonreduction.org/>



Booth #4 **Ecosense, Inc.**
 1777 Hamilton Ave Ste 2180
 San Jose CA 95125-5427
<https://ecosense.io/>



Booth #33 **Environmental Instruments Canada, Inc.**
 135 Robin Crescent
 Saskatoon SA S7L6M3
<https://radonsniffer.com/>



Booth #6 **Eurofins Radon Testing Sweden**
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 Robertsviksgatan LU SE97241
<https://radon.eurofins.se/en-gb/>



Booth #47 **Fantech, Inc.**
 992 Riddlewood Rd
 Highlands Ranch CO 80129-6978
<https://www.fantech.net/>



Booth #9 **Femto-Tech, Inc.**
 25 Eagle Ct
 Carlisle OH 45005-6322
<https://www.femto-tech.com/>



Booth #11-14 **Festa Radon Technologies Co**
 47 Progress Ave Ste A
 Cranberry Twp PA 16066-3553
<http://www.festaradontech.com>



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Booth #41 **Mills Environmental Insurance Services LLC**
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 Suwanee GA 30024-8705
<https://www.millseis.com/>



exhibitor directory



Booth #19 **National Radon Program Services / TN Radon Program**
2323 Anderson Ave Ste 300
Manhattan KS 66502-2983
<https://www.sosradon.org>

Booth #48 **National Radon Safety Board (NRSB)**
14 Hayes St
Elmsford NY 10523-2502
<https://www.nrsb.org/>

Booth #25 **Obar Systems**
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Newfoundland NJ 07435-1467
<https://www.obarsystems.com>

Booth #5 **PSD Radon Supply**
5720 Observation Ct
Colorado Springs CO 80916-4740
<https://www.radonpds.com>

Booth #17 **Rad Elec Inc.**
5716 Industry Ln Ste A
Frederick MD 21704-5204
<https://www.radelec.com/>

Booth #28 **RAdata Analytical**
1026 Cedar Point Rd
Lagrange KY 40031-9759
<https://radata.com/>

Booth #38 **Radon Supplies**
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Flemington NJ 08822-5810
<https://www.radonsupplies.com/>

Booth #1 **RadonAway**
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<https://www.radonaway.com/>

Booth #29 **Radonova, Inc.**
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Lombard IL 60148-4980
<https://radonova.com/>

Booth #27 **RSSI, Inc.**
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Morton Grove IL 60053-2723
<http://www.rssi.us>

Booth #7 **RTCA**
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Booth #20 **Stego Industries, LLC**
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San Clemente CA 92672-7558
<https://www.stegoindustries.com/>

Booth #43 **Sump Pump Geeks**
269 Jacob St
Seekonk MA 02771-1603
<https://www.grateproducts.com/>

Booth #24 **SunRADON**
1335 Gateway Dr Ste 2004
Melbourne FL 32901-2637
<https://sunradon.com/>

Booth #31 **Tattle Monitors LLC**
16515 Excelsior Blvd
Minnetonka MN 55345-5307
<https://tattlemonitors.com/>

Booth #18 **Tennessee Radon Program**
312 Rosa L Parks Ave
Nashville TN 37243-1102
<https://www.tn.gov/environment/sustainability/programs/radon.html>

Booth #30 **Your Radon Resource, LLC**
1113 Cardinal Ln
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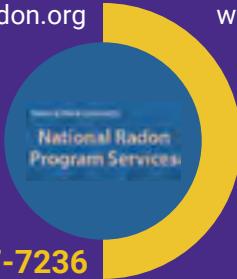
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Booth #26, 32 **NRPP Lounge**
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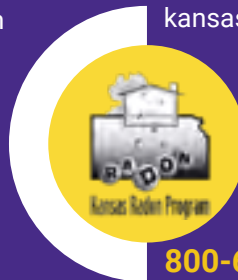
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1 1 in 4 TN Homes Tests High

2 High Levels are In All TN Counties

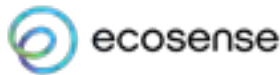
3 TN Requires Real Estate Disclosure

4 Free Test Kits For TN While Supplies Last:
<https://bit.ly/3Eiltwx>

5 Fix



6 <https://radon.tn.gov>
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speakers



MARK WHITEHEAD supported environmental cleanup work for the USDOE, Kansas City Plant. In 2012, employed by a foundation contractor, Whitehead compared a radon test with a tide chart revealing high and low radon coincided with high and low tide. This prompted the design of a centrifugal extraction system and further study of indoor air quality.



TANYA YU discovered high radon levels in her new home. Puzzled by Utah's lung cancer rates despite low smoking, she researched radon awareness. Taking action, she raised awareness by organizing fifteen events and teaching 500 students. Her efforts garnered recognition across Murray City, Girl Scouts, and media outlets, amplifying her initiatives.



BRIAN M. YANG became interested in learning more about radon after he found that his home in Center Valley, PA (Lehigh Valley) had significantly elevated levels of radon. Working with his Professor Director and Associate Professor of Public Health, Muhlenberg College Brian created a survey used to assess the public's knowledge about radon and radon mitigation.



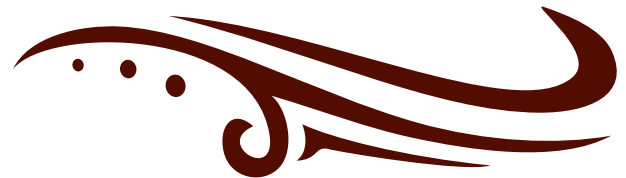
YIGUANG ZHU is a Ph.D. student at Johns Hopkins University. With a background in environmental engineering and public health, his research areas include alternatives to animal testing, radon risk, and science-to-policy translation. His Master's thesis evaluated the lung cancer risk reduction associated with ordinances that required Radon-Resistant New Construction in all new homes in Manheim Township, PA.



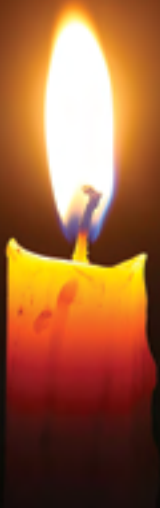
ZHENCHUN YANG, Ph.D., At Duke University's Global Health Institute, postdoctoral fellow. Dr. Yang specializes in advanced air pollution monitoring and modeling techniques. He is a key contributor in developing comprehensive spatiotemporal models for different air pollutants. He is deeply engaged in a North Carolina-based groundbreaking study investigating climate change's impact on radon exposure.

Additional Speakers:

- VIVIAN CRAIG, SR.** Environmental Specialist, NNEPA Superfund Program
- DARLENE JENKINS,** GIS Analyst
- RYAN DAHLVING,** Radon Solutions
- SHAD EVANS,** Director Quality Control - Mitigation Protect Environmental
- ASHLEY FALCO,** Director, Operations Support Team at Protect Environmental, Certification Council Chair
- DAVID GRAMMER,** President RAdata, Inc
- TIM PITTMAN**
- JOHN MALLON,** Owner Radon Detection and Control, AARST National Director



IN REMEMBRANCE



DR. NAOMI ANN HALLDEN HARLEY, NCRP DISTINGUISHED EMERITUS MEMBER

Dept. of Environmental Medicine,
NYU School of Medicine

Special Projects Group,
U.S. Atomic Energy Commission Health and
Safety Laboratory

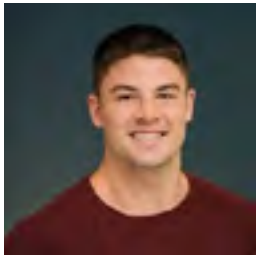
US Delegation to the UN Scientific Committee
on Effects of Atomic Radiation



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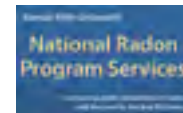
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Friends of the Symposium:

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Nashville Music Poster History

We were inspired by the iconic flavor of Nashville for our event graphics. Nashville is the home to Hatch Show Print Letterpress Print and Design, a working letterpress print shop since 1879. Sharing long-standing relationships with Grand Ole Opry stars and the Ryman Auditorium, among other historic Nashville landmarks, Hatch Show Print's posters are woven into the fabric of Music City and beyond. The shop's reach extends as far as the touring musicians who have traveled with their show posters and as far as the music venues throughout the country and internationally that have ordered their prints for upcoming performances. To see a poster from Hatch Show Print is to see the visual history of Nashville, Tennessee, the Southern United States, and the nation as a whole.

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