

AARST SYMPOSTUM 2022



AARST Administrative Office 527 N Justice Street Hendersonville, NC 28739



Hyatt Regency Bellevue on Seattle's Eastside

900 Bellevue Way NE Bellevue, Washington 98004

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- Visit the five exhibit hall booths designated on Passport pages
- Discuss with an attendee from a different state their policy observations
- Write down a few strategies in your Passport
- Submit your passport for judging at Booth #29



The 2022 AARST Advocacy Passport is an exclusive guide and workbook to help you discover the work of AARST and others in growing our voice and saving lives from radoninduced lung cancer by stimulating awareness, sparking research, engaging communities, changing public policies, and much more.





Greetings and welcome to Bellevue! Don't miss the chance to explore this beautiful area.

We appreciate all who can join us this year, whether you have traveled from the southeastern US, across Lake Washington, or points in between. We extend the warmest welcome to the 65 (!) attendees who are experiencing the symposium for the first time. We look forward to greeting you during the Opening Reception, Monday Happy Hour, breaks and lunches, and in the hallways and elsewhere.

This year's program offers opportunities to learn about:

- the latest developments in measurement and mitigation for vapor intrusion and radon
- · the status of ANSI-AARST standards and NRPP certifications
- · insights on upper-floor radon levels, radon testing disparities, liability reduction, device sensitivity, energy efficiency program oversight of radon, health risks beyond lung cancer, state regulatory policy
- the latest federal and state agency actions to reduce exposure risk
- · and more!

Outside the two meeting rooms, poster sessions (in the grand ballroom foyer) and vendor learning lab sessions (in the exhibit hall) scheduled throughout Monday and Tuesday provide additional educational events that complement the oral presentation program.

We acknowledge and celebrate AARST's longstanding partnership with CRCPD, which is holding its annual program here this week. Your symposium badge provides you with free admission to the CRCPD meeting (check out its schedule), and please join in welcoming CRCPD attendees in symposium sessions.

Finally, we offer a shout-out to the presenters, volunteers, vendors, and AARST staff who have made this year's symposium a phenomenal experience for all of us. Thank you for your support.

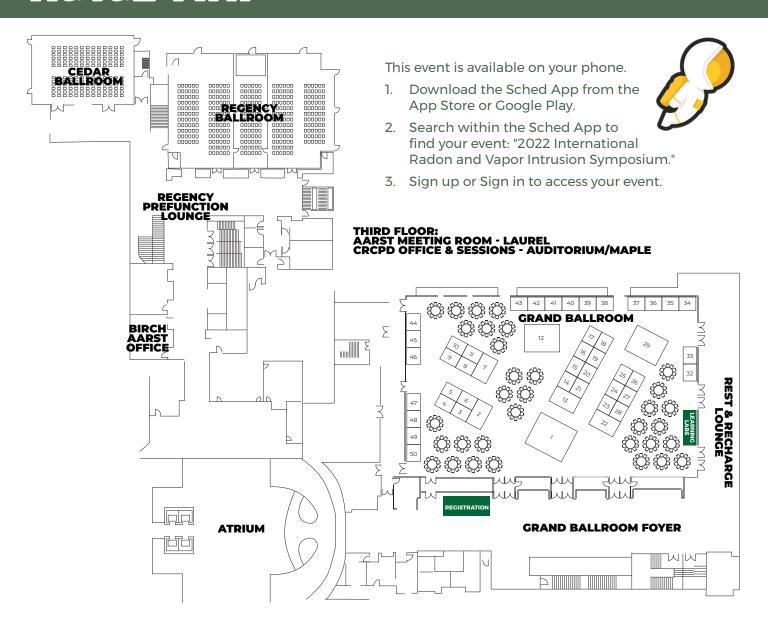
Jane Malone AARST Executive Director & National Policy Director





Kyle Hoylman AARST President

HOTEL MAP

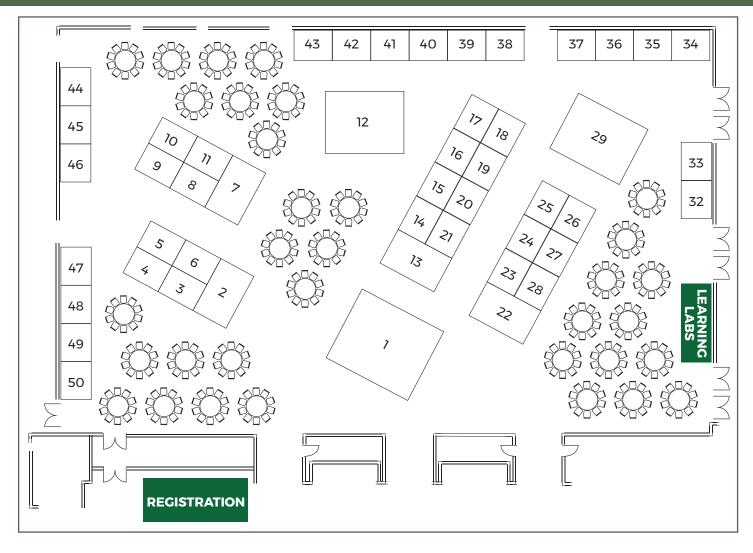




All social events will take place in the Exhibit Hall Grand Ballroom.

Sunday Opening Reception: 6:00 - 8:00 PM Monday AM Break: 10:00 - 10:45 AM Monday Lunch: 12:00 - 1:30 PM Monday PM Break: 3:00 - 3:45 PM Monday Happy Hour: 5:00 - 6:30 PM Tuesday AM Break: 10:00 - 10:45 AM Tuesday Lunch: 12:00 - 1:00 PM Tuesday PM Break: 3:00 - 3:45 PM

EXHIBITOR BOOTHS



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2022 EXHIBITOR DIRECTORY

- AARST, PAC, NRPP, Standards Consortium 527 N Justice Street, Hendersonville, NC 28739 aarst.org
- AdeptPlus Web Design 505 N Riverside Dr. Ste 110 Gurnee, IL 60031-5922 adeptplus.com/radon
- Advanced Radon Technologies, Inc. 631 N Hogan St Spokane, WA 99202-2900 advancedradontech.net
- **Airthings America Inc** 9317 Friendswood Dr Fort Worth, TX 96123 airthings.com
- Alpha Energy Laboratories, Inc 2501 Maves Rd Ste 100 Carrollton, TX 75006-1378 aelahs com
- **Benchmark Payment Networks** 3 Harbor Rd Cold Spring Harbor, NY 11724-1514 benchmarkpaymentnetworks.com
- Bowser-Morner, Inc. 4514 Taylorsville Rd, PO Box 51 Dayton, OH 45401-0051 bowser-morner.com
- **Rreeze** 698 Pro Med Ln Carmel, IN 46032-5319 discoverbreeze.com
- 3 Foster Ln, Suite 201 Flemington, NJ 08822-7256 certi us
- **Conference of Radiation Control Program Directors (CRCPD)** 112 East Main Street, Suite 1 Frankfort, KY 40601 crcpd.org
- Citizens for Radioactive Radon Reduction, Inc. 618 Evansville Ave Waterloo, IL 62298-1031 citizensforradioactiveradonreduction.org
- Ecosense, Inc. 1777 Hamilton Ave, Ste 2180 San Jose. CA 95125-5427 ecosense io

- **Environmental Instruments Canada, Inc.** 135 Robin Crescent Saskatoon, SA S7L6M3 CANADA
- **Eurofins Radon Testing Sweden** Robertsviksgatan 6A Luleå. SW SE-972 41 SWEDEN radon.eurofins.se
- Fantech. Inc. 10048 Industrial Blvd Lenexa KS 66215 fantech.net
- **Festa Radon Technologies Co** 47 Progress Ave, Ste A Cranberry Twp. PA 16066-3553 festaradontech.com
- **Gold Enterprises Marketing (GEM) LLC** 1200 US Highway 130 Robbinsville, NJ 08691-1002 gemmarketing.com
- **Homebase Scheduling Systems** 5733 Juneau Ln N Plymouth, MN 55446-1508 inspectorshomebase.com
- **ISI Building Products** 401 Truck Haven Rd East Peoria, IL 61611-1356 isibp.com
- **National Radon Program Services** 2323 Anderson Ave, Ste 300 Manhattan, KS 66502-2983 sosradon.org
- **National Radon Safety Board (NRSB)** 14 Hayes St Elmsford, NY 10523-2502 nrsb.ora
- **Northwest Radon Coalition** 3629 Kashmir Way SE Salem, OR 97317-9315 northwestradoncoalition.com
- **OBAR Systems** 2969 State Rt 23 Newfoundland, NJ 07435-1467 obarsystems.com
- Partner Engineering and Science Inc. 2154 Torrance Blvd Torrance, CA 90501-2609 partneresi.com

- **Professional Discount Supply** 5720 Observation Ct 10 Colorado Springs, CO 80916-4740 radonpds.com
- Protect Environmental 9822 Bluegrass Pkwy, Louisville, KY 40299 protectenvironmental.com
- Rad Elec, Inc. 5716 Industry Ln, Ste A Frederick, MD 21704-5204 radelec.com
- Radon Environmental Management Corp PO BOX 21208 RPO Square Vancouver, BC V2X7Y8 Canada radoncorp.com
- **Radon Supplies** 12 Minneakoning Rd, Ste 110B Flemington, NJ 08822-5810 radonsupplies.com
- RadonAway, AccuStar, Air Chek 3 Saber Way Ward Hill, MA 01835-8000 radonaway.com
- Radonova, Inc. 1 E 22nd St, Ste 200 Lombard, IL 60148-4980 radonova.com

- Stego Industries, LLC 216 Avenida Fabricante, Ste 100 San Clemente, CA 92672-7558 stegoindustries.com
- **SunRADON LLC** 1335 Gateway Dr, Ste 2004 8,9 Melbourne, FL 32901-2637 sunradon.com
- **Tattle Monitors LLC** 16515 Excelsior Blvd Minnetonka, MN 55345-5307 tattlemonitors.com
- **The Ragnar Group** 19950 Dodd Blvd. Ste 102 Lakeville. MN 55044-6342 ragnarcompany.com
- TruTech Tools, Ltd. 3425 Gilchrist Rd, Ste. B Mogadore, OH 44260-1200 trutechtools.com
- **Vapor Pin Enterprises, Inc** 7750 Corporate Blvd Plain City, OH 43064-9214 vaporpin.com
- **WIZniche** 2707 NE Brooktree Lane Kansas City, MO 64119 wizniche.com

Fundraiser

AARST Radon PAC

Online October 19-26. Visit Booth #29 for details.

AARST Members log into your membership account and click the link to enter the auction. Good luck!

Time Share: **Outer Banks Beach Club**



You could win...



Fishing Trip



The American Association of Radon Scientists and Technologists, Inc. (AARST) has established a Political Action Committee (PAC) for the benefit of the membership, to help elect political candidates who understand and appreciate the need for federal and state policies to reduce risk of radon-induced lung cancer.

2021 SPEAKERS

KEYNOTE SPEAKER



WALLACE L. AKERLEY, M.D. **Professor of Medicine, Division of Oncology**

Dr. Wallace Akerley received his M.D. degree from Brown University, Providence, Rhode Island. He completed his residency in Internal Medicine and Oncology Fellowship training at the University of Southern California. He pursued an additional fellowship in Hematology/Oncology at Dartmouth Hitchcock Medical Center.

Dr. Akerley served on the faculty at Brown University and Boston University. Since 2002, he has served as Director of Thoracic Oncology, Huntsman Cancer Institute, at the University of Utah in Salt Lake City. He has also held the positions of Director of Clinical Trials and Outcome Studies for Huntsman Cancer Care Program, Senior Director of Clinical Research, Director Utah Cancer Registry, and Senior Director of Community Oncology Research. Presently he is Chair of the Protocol Review & Monitoring Committee, Director of the Lung Cancer Disease Center of Excellence, and a member of the NCCN's Steering committee and Non-Small Cell Lung Cancer Panel.

Dr. Akerley exclusively specializes in the treatment of lung cancer patients. Given that radon is the second leading cause of lung cancer, he is a strong proponent of radon testing and has pursued radon legislation in the State of Utah. He is active in radon research, radon surveys, and publications in the area of radon.



HUDA AL-SULAITI, Ph.D., Sr. Research Dir. of Natural and Environmental Hazards Observator (NEHO) at Qatar Environment and Energy Research Institute (QEERI), Hamad Bin Khalifa University, Qatar. She has 27+ years of experience in environmental and radiation regulation, research, and teaching physics. She holds a Ph.D. in environmental radioactivity and an M.A. in radiation and environmental protection from the University of Surrey (UK).



PEGGY BAGNOLI is the lead on the National Radon Action Plan for the EPA's Indoor Environments Division in Washington, DC, and works with the Homes Team on Indoor airPLUS Prg. A civil engineer, Bagnoli is a dedicated Civil Servant with 23 years of experience at the EPA & 7 with the Air Force and participates in the CDC's Radon Data Collection effort.



RUTH ARESTIDES, Sr. Technical Specialist with Haley & Aldrich, Inc. Ruth has consulting experience in California focused on multichemical, multi-pathway human health risk assessment projects, with evaluation and interpretation of the vapor intrusion pathway a key component of most projects.



GUNNAR BARR, President of Obar Systems, specializing in Radon and VI Mitigation since 1985. He developed the original radon blower with RB Kanalflakt 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.



ASHWIN ASHOK, Assistant Professor in the Dept. of Computer Science at Georgia State University (GSU) since 2017 and directs the MORSE Studio. Through experiential research, his research group focuses on emerging technologies in Mobile and Robotic Systems. His work spans areas in communications and networking, robotics, environmental systems, and privacy/security.



JENNIFER BORSKI, Wisconsin Dept. of Natural Resources Vapor Intrusion Team Leader. The VI team identifies policy issues, develops guidance, and provides training. She joined ITRC's Vapor Intrusion Mitigation Team and is an instructor. 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.



JENNIFER ATHEY, Geologist and Geoscience Information Manager for Alaska's geological survey, a science-focused agency within the Dept. of Natural Resources, and manages Alaska's radon program. Athey has 25+ years of experience in project management, databases, GIS, geologic mapping, and mineral exploration, with recent emphasis on environmental geology.



JOHNA BOULAFENTIS For 17+ years, Johna has led air quality outreach and education activities on the Nez Perce Reservation. She also conducts indoor environment and health research with agencies and universities. In 2020, the Tribe received their first SIRG funding. Johna appreciates the passion and dedication of her radon partners in the Northwest Radon Coalition and the Idaho Radon Coalition.



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BILL BRODHEAD has been installing radon and vapor intrusion systems since 1984 and has been the radon mitigation instructor at Rutgers University for 25 years. Brodhead has authored 17 research papers at AARST conferences. His papers are available at his website http://www.wpb-radon. com/ which is considered one of the best sites to visit to get information about radon, radon fans, and radon mitigation.



RILEY CAREY CIV USARMY CELRB is a health physicist with the U.S. Army Corps of Engineers in Buffalo, NY. He supports the Formerly Utilized Sites Remedial Action Program (FUSRAP) as the project health physicist for the Niagara Falls Storage Site in Lewiston, NY, and has worked on other radonfocused projects with the Corps.



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.



DAWN GOARD, Colorado Director of Operations at ACE Radon which includes all financial, office customer service, and warehouse activity oversight, as well as marketing, safety, insurance, and IT interfaces



LAURIE A. CHILCOTE, Dir. of Sales Marketing at Cox-Colvin & Associates, Inc. and VP at Vapor Pin Enterprises, Inc. & Vapor Pin Do Brazil, oversees the US and international marketing, sales, and training for Vapor Pin® and the firm's international distributors. As the founding member of the Assoc. of Vapor Intrusion Professionals, she also lectures and trains environmental firms, regulatory agencies, and developers on VI and the Vapor Pin® technology.



RICHARD CHRISTENSEN, JR., Ph.D., has 20+ years of professional experience and is a Principal Geologist at AcuityES in Fishers, IN. He obtained his B.S. in Geology from Grand Valley State College in 1984, M.S. in Hydrogeology from Western Michigan University in 1987, Ph.D. from the Union Institute and University in 2004, and is an LPG in seven states.



CRAIG COX, President, Cox-Colvin & Associates, Inc. Responsible for providing managerial and technical oversight on major environmental projects conducted by the firm. Cox is the inventor of the Vapor Pin® sub-slab soil gas sampling device, the primary architect of various environmental database applications, and is a founding member and serves on the board of the Assoc. of Vapor Intrusion Professionals (AVIP).



KATIE ETTER, Lead & Radon Program Manager Indiana Dept. of Health; Lead & Healthy Homes Division. Etter has 25 years of experience in managing operations and projects. She monitors and develops the Division's EPA & CDC grant initiatives, risk assessment coordination and tracking, developing standards for and administering applicable licensing, and working with local, state, and national partners on program improvement initiatives



PETER FOLLER, Ph.D., Advisor to Ecosense, Inc., received his Ph.D. in Chemistry (with a concentration in electrochemistry) from the University of California at Berkeley in 1979. Following a long career in R&D with chemical companies such as PPG Industries, Foller retired in 2010 and has been advising and participating in early-stage start-ups clustering in the area of chemical sensing.



MARISSA GOODMAN, Project Manager Environmental Engineer with Haley & Aldrich, Inc. Goodman specializes in managing and implementing environmental due diligence assessments, remedial investigations, feasibility studies, and remedial actions in accordance with the Washington State Model Toxics Control Act. Goodman's projects often include VI assessments, including soil vapor and indoor air sampling, and



WILLIAM HANEBERG, Ph.D., PG, State Geologist of Kentucky, Dir. of the KY Geological Survey, and a research Professor in the UK Earth & Environmental Sciences Dept. Expertise includes digital terrain modeling, computational geology, GIS applications, & geohazard/risk assessment. He serves on various boards and committees, including the National Geospatial Advisory Committee under the U.S. Dept. of the Interior.



DAVID HILL, Executive VP of RadonAway. His responsibilities encompass all Spruce brands and divisions. A former radon mitigation contractor with a business that served CT, NY, RI, and other states and managed mitigations nationally. He is a Past President of AARST and holds leadership roles in AARST and other professional organizations. He serves on the ANSI/AARST Standards committees.



WES HODGDEN, President for Midwest Radon (AQP, Inc), where he oversees projects throughout the US. A second-generation radon and building science specialist with 25+ years of experience, he has been involved in over 30,000 radon mitigation and measurement projects. A long-standing member of AARST, he holds an NRPP Certification with Advanced Certificates in Multifamily Measurement & Mitigation.



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 5,900 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 Science Advisory Committee.

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PHIL JENKINS, Ph.D., CHP (Emeritus) has served on the Board of AARST in every position including President and is a 50-year member of the Health Physics Society. Phil has been at Bowser-Morner's radon reference facility since 1991. Phil's current focus areas include quality assurance documentation in the laboratory, national radon standards and quality assurance of radon measurements.



SARA JENSEN, Environmental Specialist for HUD's Office of Environment and Energy. As Environmental Clearance Officer for the Office of Housing, she oversees the implementation of environmental policy for multifamily loans.



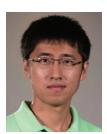
JOSH KERBER, Environmental Research Scientist for the Minnesota DOH. Working in radon since 2002, he has worked on the implementation of the Minnesota Radon Awareness Act and the Minnesota Radon Licensing Act. He assists MN contractors with radon and vapor intrusion mitigation. He serves on many national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



PROF. KONSTANTIN KOVLER, Ph.D., Dept. Head of Building Materials, Performance & Technology at National Building Research Institute, Technion - Israel Institute of Technology. Research focuses on high-performance building materials, nondestructive testing; durability, shrinkage, & creep of concrete; early age concrete; internal curing of concrete; supplementary cementitious materials; advanced & non-traditional chemical admixtures, natural stone, the radioactivity of building materials & radon mitigation.



MICHAEL LAFONTAINE is a federally licensed Professional Physicist with 30+ years of experience in the radon industry, serves on AARST's MS-QA, Measurement, Technical & Scientific, and Standards Assistance Committees; is Co-chair of Health Canada's - CGSB Working Group 1 Committee: and an instructor at CNL's Reactor Safety & Instrumentation School. He's presently C-NRPP Lead Auditor, Technical Evaluations & QA.



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.



ERIC LOVENDUSKI, APR, is a consultant and recognized vapor intrusion expert with 20+ years of experience, with an emphasis on VI matters. Eric has been an invited instructor for VI training by several regulatory agencies and has been a major contributor to State VI guidance and AARST mitigation standards. Eric has been with Geosyntec Consultants since 2007.



DAVID LUTZ is Technical Director with a diverse background in environmental consulting and commercial due diligence. Lutz has managed comprehensive environmental services for real estate life cycle planning and management, including Vapor Mitigation, Phase II Subsurface Investigations, Hazardous Waste Management, & Facility-Building Decommissioning/Demolition & more for clients across North America.



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.



JANE MALONE leads efforts to support radon industry-led state and local policy advocacy, strengthen radon-related building codes, and obtain Congressional and federal agency support for radon risk reduction. Before joining AARST as National Policy Director in 2015, she conducted advocacy to advance decent, safe, and affordable housing at the local, state, and national levels.



DEBORAH MADSEN, AARST Technical Strategies Director, B.S. in Environmental Engineering from Iowa State University. She spent ten years in environmental consulting, then worked for a county health dept. to develop a program for radon testing in schools. Before joining AARST, Madsen was with the Minnesota Dept. of Health and was instrumental in implementing the Minnesota Radon Licensing Act.



DR. YEHIA MANAWI is a scientist at Qatar Environment and Energy Research Institute's (QEERI's) Water Center and Natural and Environmental Hazards Observatory (NEHO). He works on pressure-driven membrane processes at the Water Center and monitors naturally occurring radioactive materials in Qatar's groundwater and seawater at NEHO.



JIM MCAULEY, Radiation Safety Officer with the EPA. He has worked in radiation protection for 32+ years. He began his career after completing a degree in Physics from Eastern Washington University. He has worked for the US Navy, several nuclear waste cleanup contractors, the Dept. of Energy, and the EPA. He has held positions that include Radiation Protection Technician, Radiological Engineer, Health Physicist, and Radiation Protection Manager.



TONY MCDONALD is an essential part of A-Z Solutions Inc's success as President of Operations and Sr. Project Manager for the Company's radon and vapor intrusion mitigation projects. His expertise has led to the successful installation of hundreds of custom-designed SSD systems nationwide. As a current officer of AARST, he is instrumental in shaping national radon and VI remediation guidelines.



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PAUL MELILLO Paul Melillo has nearly 20 years of environmental consulting and business development experience. He has delivered environmental consulting solutions on over 750 environmentally impacted properties. In January 2022, Paul joined Protect Environmental as the director of national accounts. He obtained his BS in Geology from the University of Vermont, MS in Environmental Toxicology from Indiana University, and has been a CHMM since 2008.



JOEL MIGIACCIO, Environmental Scientist and General Contractor for Environmental Works. With 23+ years of combined field experience, areas of technical expertise include sustainable building practices, stormwater management, radon measurement & mitigation, & environmental consulting. Environmental Works has installed thousands of residential, commercial, & multifamily radon mitigation systems in Oregon and SW Washington.



MICHELE MONTI, Epidemiologist for the CDC National Center for Environmental Health, Environmental Health Tracking Section, with responsibilities for national surveillance of environmental contaminants associated with chronic diseases, especially drinking water contaminants, pesticides, and radon. She has a Master of Public Health degree from VA Commonwealth Univ. and an M.S. in Environmental Sciences from the Univ. of Virginia.



JILL NEWTON, Radiological Engineer for Spruce Environmental Technologies, B.S. in Nuclear Engineering and Radiological Sciences from the University of Michigan. After graduating, working for a nuclear engineering consulting company, she performed radiological analyses for nuclear power plants. Before joining Spruce, Newton was the Manager of the Radon Reference Laboratory at Bowser-Morner. She has been involved in the radon industry for 10+ years.



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



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.



PAUL OWENS, RadonAway Director of Product Management, responsible for managing and expanding RadonAway's product offerings. Before joining RadonAway, Owens spent 23 years in the environmental industry conducting site, risk, and biological assessments, remedial action planning, system design, and managing air, water, and soil remediation and wastewater treatment systems for both commercial and industrial clients in the private sector.



BEN PARISER was introduced to Restorical Research (RR) through a chance encounter in 2010, following the great recession and after 20 years in real estate development. Seeing first-hand RR's philosophy, process, and results, he was completely blown away and knew he had to work with this amazing company led by David Valinetz and Jeff Berebitksy. He has been at Restorical Research for ten years.



RACHEL A. PETERSON, P.G., is a geologist with 20 years of experience performing soil, groundwater, vapor intrusion, and remediation projects. She is a past president of the Rocky Mountain Association of Environmental Professionals, is Board Secretary for The Energy Leadership Institute, and is proud to serve as chair of the Government Affairs committee and Vice President for Rocky Mountain AARST.



JARA POPINGA, Program Coordinator with Oregon Health Authority's Environmental Public Health Section. Popinga 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. In this program, she supports state and local radon awareness and education.



NOAH QUASTEL, Ph.D., Director, Law & Policy of the Healthy Indoor Environments Program at the British Columbia Lung Foundation. He is a lawyer and holds a Ph.D. in Human Geography from The University of British Columbia. His research spans sustainability, environmental change and the built environment, and radon law and policy.



TRYGGVE RÖNNQVIST, Ph.D., Technical Manager of Radonova Laboratories AB in Sweden. He 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.



PETER RUCHTI has worked with small business owners for over 10 years to help them generate more jobs using their web marketing. As founder of AdeptPlus, Peter has worked on 500+ websites and helped testing and mitigation contractors produce thousands of new jobs using the internet.



DR. UTTAM SAHA, Senior Public Service Associate, equivalent to a Full Professor, under 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.

SYMPOSTUM SCHEDULE SUBJECT TO CHANGE

Sunday, October 23, 2022

Sunday CE 8:00 a.m. - 5:00 p.m.

Radon Mitigation Compliance Inspector Certification-prep Course - (NRPP ID# KSU-8000 8 hrs Cat-I)

Radon Measurement in Multi-Family Buildings - (NRPP ID# KSU-600 8 hrs Cat-I)

Multifamily Radon Mitigation - (NRPP ID# Spruce-601 8 hrs Cat-I)

Gnarly Tales II - (NRPP ID# -8000 CERTI 8 hrs Cat-I)

Sunday CE 8:00 a.m. - 12:00 p.m.

Vapor Intrusion Mitigation Diagnostics, Design and Monitoring - (NRPP ID # OBAR-8001 4 hr Cat-I)

Exhibit Hall, Grand Ballroom

Exhibits 2:00 p.m - 8:00 p.m.

Opening Reception 6:00 p.m. - 8:00 p.m.

(Sponsored by Fantech & Radon Supplies)

Monday, October 24, 202 2						
Time	General Session / Regency Ballroom		Time	Vapor Intrusion / Cedar Ballroom		
8:00	Introductions and Welcome	Kyle Hoylman, AARST Joshua Kerber, CRCPD Gary Garrety, WA DOH				
8:15	Leadership Updates	Jennifer Borski, ITRC VIMT Josh Kerber, CRCPD E25 Jane Malone, AARST Kevin Stewart, NRAP				
8:45	Keynote	Wallace Akerley, MD				
9:30	Federal Agency Updates	Peggy Bagnoli, EPA Adela Salamie-Alfie, CDC Sara Jensen, HUD				
10:00		Break & Exhibits (Brea	ık Spon	sored by Fantech, Inc.)		
10:45	CDC EPHT Update / Privacy Protection for Radon Data	Michele Monti	10:45	Project Communication with all Stakeholders	Matt Wheaton	
11:05	Mitigation Simulation App Demo	Joshua Kerber	11:10	Conceptual Site Modeling	Laurie Chilcote Craig Cox	
11:20	Development of a Radon Testing Disparity Metric	Kevin Stewart				
11:40	Radon Measurements on Higher floors	Tryggve Rönnqvist	11:40	Insurance Cost Recovery for VI	Ben Pariser	
12:00	12:00 Lunch & Exhibits					
			1:30	VI Dosign for Large Scale	Tony McDonald	
1:30	Standards Update: AARST Consortium	Deborah Madsen	1:50	VI Design for Large-Scale Buildings	TOTIS INCOOTIAIO	

SYMPOSTUM SCHEDULE

2:05	Spotlight: Efforts in the PNW	Duane West Joel Migliaccio Jara Popinga Jim McAuley Johna Boulafentis	2:00	OM&M and Telemetry: Similarities and Differences in Radon and VI Stewardship	Chris Bonniwell	
2:40	Proactive Compliance Inspection and Audit Program	Rebecca Turek Katie Etter	2:30	West Coast Vapor Intrusion Update	Marissa Goodman Ruth Arestides	
3:00	Break & Exhibits (Break Sponsored by Radonova, Inc.)					
3:45	International Intercomparison of Radon: Results	Phil Jenkins	3:45	Implementation of a Strategic Approach for Vapor Intrusion Assessment	Richard H. Christensen, Jr., PG, Ph.D.	
4:00	Multifamily Houses From Heck	Wes Hodgden Jeff Sims		and Mitigation Along a 1.3 Mile Trichloroethene Groundwater Plume		
			4:25	Round Table Discussion	VI Panel	
4:40	Recognitions	Joshua Kerber				
4:55	Growing Our Voice					
5:00	END		5:00	END		
5:00 - 6:30 n m. Hanny Hour (Snonsored by Fantech Inc.)						

Tuesday, October 25, 2022					
Time	Practice & Policy / Regency Ballroom		Time	Science & Research / Cedar Ballroom	
8:00	Welcome	Dawn Oggier	8:00	Welcome	Mike Kitto, Ph.D.
			8:05	On-Site Radon in Water Mitigation in Two Private Wells in Georgia Using AIRWELL® Mitigation System	Uttam Saha
8:05	AARST @ 36: Accomplishments + Strategic Plan	Jane Malone	8:25	Radon Adsorption in Detector Plastic - A Source of Error	Tryggve Rönnqvist
8:20	Developing a Radon QA/ QC ISO Standard for Radon Chambers, Device Manufacturers & Test Device Analysts	Gary Hodgden for Michael LaFontaine	8:45	Outdoor Radon Levels' Influence on Indoor Radon Levels	Gunnar Barr for Bill Brodhead
8:35	(RTC) Regulation Through Certification - Latest developments	Rachel Peterson Kyle Hoylman George Schambach	9:05	Identifying Hazards for Vapor and Radon Mitigation Technologies	David Lutz
9:05	Infrared Thermal Imaging Can Help in Determining the Back Drafting of Appliances	Bill Spohn, Jr.			
9:20	Mitigating Emanation from Concrete Without Increasing Mold	Gunnar Barr for Bill Brodhead	9:25		
9:40	Case Study - Horizontal Drilling for Mitigation Beneath Post-Tensioned Slabs	Rachel Peterson			
10:00 Break & Exhibits (Break Sponsored by Radon Supplies)					

SYMPOSTUM SCHEDULE

10:45	Multifamily Measurement Certification (NEW) / Multifamily Mitigation Certification (NEW)	Deborah Madsen Dawn Goard	10:45	The Evolution of Vapor Intrusion and Expected Future Trends	Laurie Chilcote Craig Cox
11:05	Evaluating the Effect of Building Pressures on 3-Dimensional Sub Slab Vacuum Fields	Gunnar Barr	11:05	Lead-210 and Polonium-210 as Indicators of Historic Radon Emission Tendencies	Riley Carey
11:25	Energy Efficiency Upgrades in Canada	Noah Quastel	11:25	Evaluating the E-Perm RT Chamber for Measuring RN-220 in a Cave Environment	Lawrence Welch
11:45	US Energy Efficiency Programs and Radon	Peggy Bagnoli	11:45		
12:00	Lunch & l	Exhibits (Lunch Spons	ored by	Professional Discount Supply)	
1:00	AAR	ST Annual Meeting - Ger	neral Se	ssion / Regency Ballroom	
1:30	Update: HUD Multifamily Lender Policy	Sara Jensen	1:30	The Use of Radon as a Tracer Gas as Part of Vapor Intrusion Mitigation System Performance Monitoring: A Case Study of Two Project Sites and Lessons Learned	Sadie Schroeter Veronica Statham
1:50	CRM Sensitivity Matters!	Jill Newton	1:50	Impact of Radon Exposures on Non-Cancer Outcomes and Future Perspectives	Carolina Zilli-Vieira
2:10	Reducing Liability - Contract Issues	David Gillay	2:10	The 100 Test Challenge: Building Momentum for Radon Testing across Canada	Anne-Marie Nicol, Ph.D.
2:35	Alaska's Story of Radon Challenges in a Big, Artic, Far-flung U.S. State	Jennifer Athey	2:35	Overview and Risk Assessment of the Radon Levels in the Groundwater	Huda Al-Sulaiti, Ph.D. Dr. Yehia Manawi
2:40	2022 Radon Professionals Survey	Jane Malone		Wells of Qatar	
3:00	Brea	ak & Exhibits (Break Sp	onsore	d by Bowser-Morner, Inc.)	
3:45	Radon in Water Certificate (NEW) VI Certification (NEW)	Angela Tin	3:45	Indoor and Outdoor Radon Measurement Using Digital Technology, Charcoal Test Kits, and Soil Gas Sampling	William Haneberg, Ph.D., PG
3:55	Soil Gas Mat: An Overview	Paul Owens	4:05	A National Comparison Between the Collocated Short-Term and Long-Term Radon Measurements in the US	Longxiang Li
4:15	Optimum Vapor Barrier Selection	Dane Malmberg	4:25	A Simplified Approach for Calculating Radius of Influence of Radon Mitigation System	Eric Lovenduski Darius Mali
4:35	Strategies for Systems and Policy Change in 2023	Panel	4:45		
5:00			END		
				· · · · · · · · · · · · · · · · · · ·	

SYMPOSTUM SCHEDULE

Monday & Tuesday Poster Sessions in the Grand Ballroom Foyer				
OPENRADON LAB: Democratizing Soil Radon Modeling and Mapping	Ashwin Ashok	Monday AM Break		
Visualizing Radon through New Mapping Initiatives	Peter Foller, Ph.D.	Monday PM Break		
Predicting Monthly Community-Level Radon Concentrations with Spatiotemporal Random Forest method: A Study in Northeastern and Midwestern US	Longxiang Li	Tuesday AM Break		
Temporal Uncertainty Versus Coefficient of Variation for International Standardization of Indoor Radon	Konstantin Kovler	Tuesday PM Break		
Alaska's Story of Radon Challenges in a Big, Arctic, Far-flung U.S. State	Jennifer Athey	Tuesday PM Break		

Wednesday, October 26, 2022 9:00 a.m. –11:00 a.m. / Regency Ballroom Pre-registration is required.			
Growing Your Voice Within AARST (Committees, Chapters, Board, Standards)	David Hill George Schambach		
Growing Your Advocacy Voice	Jane Malone		
Growing Your Business - Attracting More & Better Jobs	Peter Ruchti		
Growing Your Radon Message in Communities = Successful Media Messaging	Kyle Hoylman		
Growing Your Market Footprint to include HUD Multifamily Work	Dawn Oggier		

Learning Labs Monday & Tuesday Please refer to schedule in Exhibit Hall and on Sched.org

Monday AM Learning Labs, Sponsored by SunRADON Monday PM Learning Labs, Sponsored by Ecosense, Inc. Tuesday AM Learning Labs, Sponsored by Alpha Energy Laboratories, Inc. Tuesday PM Learning Labs, Sponsored by Airthings

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DR. ADELA SALAME-ALFIE, Sr. Health Physicist in the Radiation Studies Section, Center for Environmental Health at CDC. She previously worked at the NYS DOH in various capacities, including Dir. for the Bureau of Environ. Radiation Protection. She is a council member of the NCRP, a Lifetime member of CRCPD, and served as Chair and member of the Board of Directors, chaired several committees, and received the 2014 Gerald S. Parker Award. She is a Fellow member of HPS and serves on the Board of Directors.



GEORGE SCHAMBACH, Owner and President of Professional Home Inspection Service. Currently serves as President of the NYS AARST Chapter, National AARST Board of Directors, Chair of the AARST Audit Committee, and Chairman of the AARST Chapter Council and other organizations. Member of NYS Radon Task Force tasked with developing radon legislation in NYS for licensing by certification.



SADIE SCHROETER is a junior engineer in the field for AEI Consultants, which provides building, environmental, land, and sustainability assessment and consulting services. Schroeter staffs and executes the work plans produced by AEI's professional engineers for environmental investigations. She focuses on projects that include performance monitoring sampling events for VI mitigation systems.



JEFF SIMS was one of the two original founding members of Protect Environmental, starting the company in 2005 and serving as a founder and partner until October 2021. Since then, Jeff has taken on the role of Senior Director of National Services. His national services team is responsible for managing all national commercial clients for the company.



BILLY SPOHN JR., Marketing Manager at TruTech Tools, a family-owned online HVAC Tool Distributor. He works with the top tool manufacturers in HVAC and Building Performance and helps TruTech's customers find which tool is right for them. Whether you're a radon, home performance, or HVAC professional, it's important to understand building science!



VERONICA STATHAM is a professional engineer with 20+ years of experience planning and implementing environmental projects. Her specialties include site assessments, field investigations (including soil, groundwater, indoor air, and soil gas), environmental aspects of construction oversight, and remedial and vapor mitigation system design. Statham is currently with AEI Consultants, which provides building, environmental, land, and sustainability assessment, and consulting services.



GRETCHEN STEWART, MHE CAPS, Sr. Environmental Employee in Children's Environmental Health, Healthy Schools, & Air Quality/Radon at US EPA, Region 10, Gretchen provides 40 years of successful education management, marketing & entrepreneurial expertise. Both consultant & contractor, she works with gov't agencies & private businesses to launch new business models with a commitment to increase public awareness, environmental stewardship, & health management.



KEVIN STEWART, Director of Environmental Health for Advocacy and Public Policy for the American Lung Association. He assists in the work of the NRAP leadership group. He has managed radon grants under Pennsylvania DEP, for which he was named CRCPD's 2008 Radon Hero. In association with AARST, Stewart has served on its Board of Directors and is currently on several technical committees, including the CNRS's ESC and the NRPP's PAB.



ANGELA TIN, National Senior Director for the American Lung Association. She is an Environmental and Regulatory Compliance professional with a B.A. in Physiology and an M.S. in Cell Biology. She worked for 20 years for the Illinois Environmental Protection Agency. For the past 14 years, she has partnered with industry, state, and local agencies to promote outdoor and indoor air quality programs.



REBECCA TUREK, QA Program Manager for AARST, where she manages state compliance programs. She graduated from Syracuse University with her Bachelor's degree and is obtaining a Masters in Health Physics from IIT. Before working with AARST, she managed the Radon Reference Laboratory at Bowser-Morner for three years. She also serves on the board of the CRS.



LAWRENCE E. WELCH, Ph.D., Holds a B.S. from the University of Wisconsin at River Falls and a Ph.D. from lowa 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.



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.



MATT WHEATON, Senior Principal at Terracon's Mountlake Terrace, Washington office who, over his 23-year career, has provided technical oversight on remedial actions in Washington State utilizing cleanup remedies such as in-situ remediation systems, large-scale dig-and-hauls and the implementation of engineered controls, including design and oversight of Vapor Intrusion Mitigation systems on mixed-use residential and commercial properties.



DR. CAROLINA L. ZILLI-VIEIRA, Research Associate in the Dept. of Environmental Health at Harvard T. H. Chan School of Public Health, with interest in the impact of periodic oscillations of solar activity and environmental radiation on air pollution and human health. She has dedicated her career over the past 12 years to investigating solar activity's impact and related parameters on human health.

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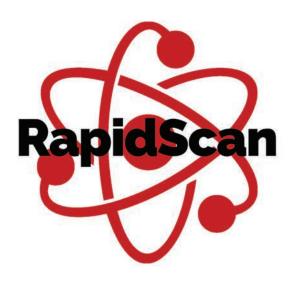
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