



INDOOR
ENVIRONMENTS
A S S O C I A T I O N

AARST™

Diane Swecker, Executive Director

director@indoorenvironments.org

EPA Region 8, 9, 10 Stakeholders Meeting

April 23, 2024

Rebranding



OFFICIAL
ANNOUNCEMENT

AARST™

IS NOW

 **INDOOR
ENVIRONMENTS
ASSOCIATION**

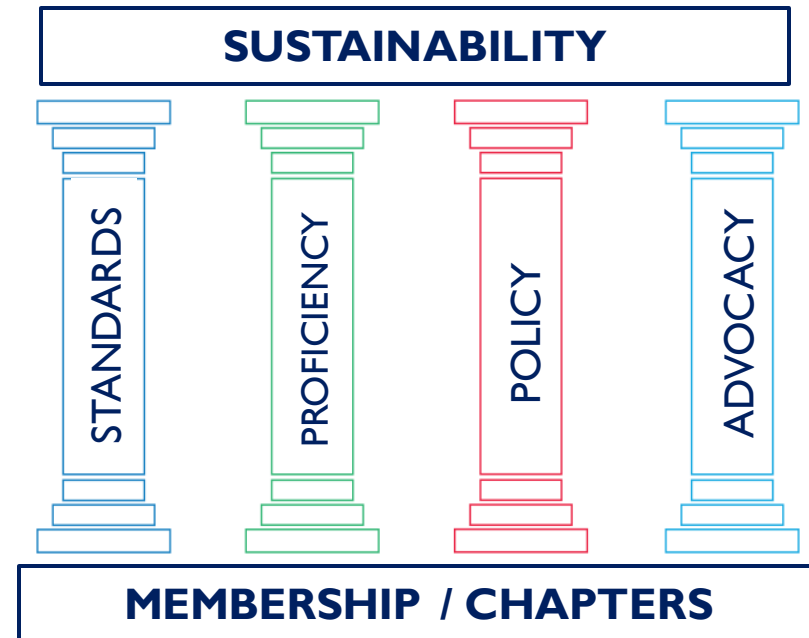
NEW NAME →
SAME GREAT BENEFITS
and more!

VISIT
AARST.ORG
TO LEARN MORE

The graphic features a light grey background with a faint world map. It is framed by green and blue wavy borders at the top and bottom. The text is primarily in blue and green, with the new name 'INDOOR ENVIRONMENTS ASSOCIATION' in a mix of green and blue. The logo is a blue cube with green arrows on its faces.

Mission

- The organization primarily strives to advance the interests of its members through
 - developing industry standards
 - certifying technical proficiency
 - enabling advancement of public policy
 - communicating health risks to the public



Indoor Environments Association



Kyle Holyman, Pres



Dave Hill, Pres elect



George Schambach, VP



David Gillay, VP



Jan Fisher, Sec



Dan Potter, Treas

Board of Directors



Lila M. Beckley



Nate Burden



Aaron Fisher



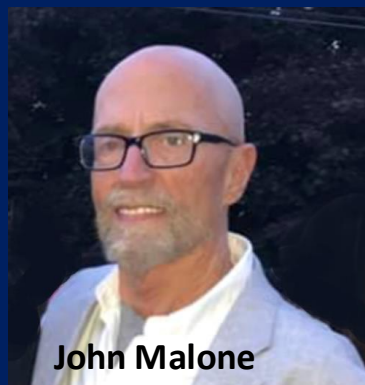
Aaron Freidrich



Zan Jones



Terry Kerwin



John Malone



Kevin Stewart



Duane West



Shad Evans



Phil McDonnell

Policy

- Renter protections added in CO, IL, and Montgomery Co, MD
- 13 regulated states rely exclusively on **ANSI-AARST Standards**
 - NE and KS being the most recent states to adopt the standards.
 - 2 other states use at least one; more state adoptions expected 2024-2026
- Regulation through certification laws planned in MD, MO, NY, TN, WI
- School testing requirements under discussion in IL, IN, PA
- FHFA/GSEs Multifamily: 25 % testing property wide, ≥ 1 unit per building; mitigation professional, post-mitigation testing, OM&M required
- HUD: Department-wide policy finalized – not protective
- EPA: credentialing framework to be finalized soon

Regulated State	Required Credential(s)		Current Meas/Mit Standard(s) in Effect	
	Private Certification	State License/Cert.	ANSI-AARST	EPA, ASTM, other
California	X		All	
Colorado	X	X	All	
Connecticut	X	X	All	
Florida		X	(rule planning)	All
Illinois		X		All
Indiana	X	X	All	
Iowa		X	Measurement	Mitigation
Kansas		X	All	
Kentucky	X	X	All	
Maine		X		All
Minnesota		X	All	
Nebraska		X	All	
New Hampshire	Mitigation		Mitigation	
New Jersey		X	All	
Ohio		X		All
Pennsylvania		X	Multifamily	Single Family
Rhode Island	X	X	All	
Utah	Mitigation	X	Mitigation	
Virginia	X			Single Family
West Virginia	X	X	All	



UTAH

The Radon Report Card: Risk and Response

Population and Lung Cancer Total Population: 3,153,550



Lung Cancer Deaths: 447



Age-Adjusted Lung Cancer Incidence Rate (per 100,000) 26

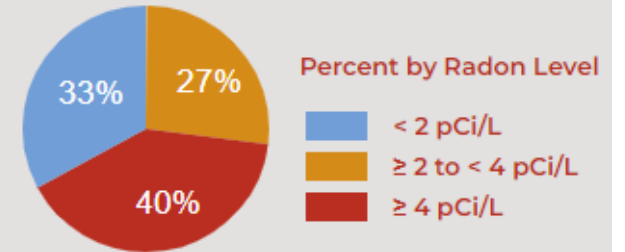
Lung Cancer Cases 739

Radon-Induced Lung Cancer Cases 146

* Medical Costs (hospital, medicine, doctors) \$29,000,000

* Economic Costs (lost wages / productivity) \$31,000,000

Buildings and Exposure Potential Pre-Mitigation Radon Tests: 56,280



Report Card

Statewide Radon Policies

Credential Required	✓	Private Certification and State License (Mitigation Only)
Radon Standards in Effect	✓	ANSI-AARST (Mitigation Only)
Homebuyer Protection Required	✗	None
Radon System Requirement for New Homes	✗	No
Type of New Home Where Required		N/A
Standard/Code for Radon System in New Homes		N/A
School Testing Required	✗	No
Radon System Requirement for New Schools	✗	No



Housing Units by Structure Type

	1 to 4 Units	5 or More Units	Total
Existing	925,270	161,181	1,086,451
New	19,256	9,523	28,779



Public Schools: 1,088

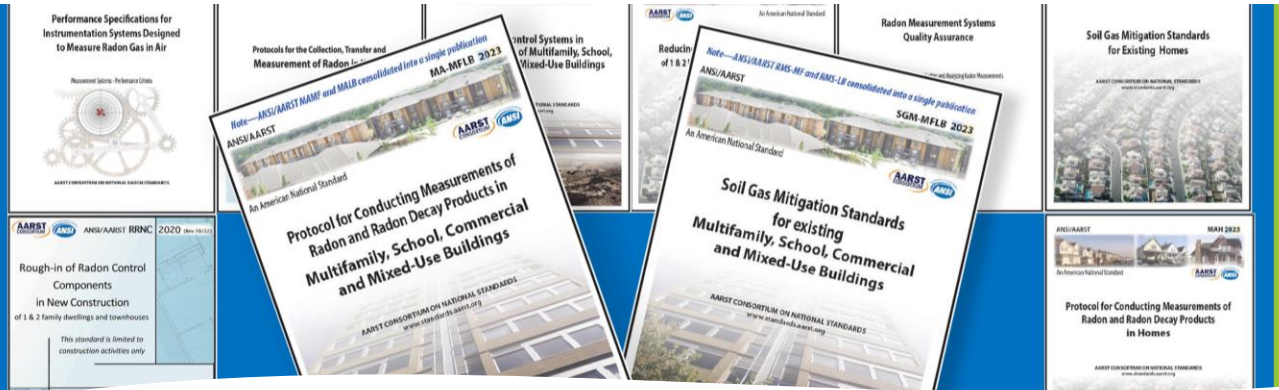
EPA and ANSI-AARST Radon Measurement Standards recommend fixing a building with a radon level ≥ (above or equal to) 4 pCi/L and consider fixing it if any radon level is ≥ 2 and < (below) 4 pCi/L.

Total Population; Lung Cancer Deaths; Age-Adjusted Lung Cancer Rate (per 100,000); Lung Cancer Deaths: CDC US Cancer Statistics (2018). Estimated Radon-Induced Lung Cancer Cases; Lung Cancer Cases weighted by scaled mean radon levels, CDC Environmental Public Health Tracking Network (2006-2020); National Cancer Institute, Cancer Trends Progress Report (2022) and Productivity Costs of Cancer Mortality in the US (2008). Statewide Radon Policies: IEA staff compilation, 2024. Pre-Mitigation Radon Tests from State: CDC Environmental Public Health Tracking Network (2006-2020). Existing Housing Units and New Housing Units: US Census (2019). Public Schools: National Center for Educational Statistics (2020-2021).

ANSI / AARST Standards

Up For Public Review

Consistent with plans relative to our continuous maintenance program, the following latest ANSI/AARST publications are being published for public review:



- **MA-MFLB 2023** *Protocol for Conducting Measurements in Multifamily, School, Commercial, and Mixed-Use Buildings*
- **SGM-MFLB 2023** *Soil Gas Mitigation Standards for existing Multifamily, School, Commercial, and Mixed-Use Buildings*
- **MAH 2023** *Protocol for Conducting Measurements in Homes*
- **MS-QA 2023** *Quality Assurance for Radon Measurement Systems*
- **SGM-SF 2023** *Soil Gas Mitigation for Existing Homes*

PUBLIC REVIEW  

AARST/ANSI RADON STANDARDS

MAH - (Protocol for Conducting Measurements of Radon and Radon Decay Products in Homes)

MA-MFLB - (Protocol for Conducting Measurements of Radon and Radon Decay Products in Multifamily, School, Commercial and Multi-Use Buildings)



Deadline for comments—May 20, 2024

standards.aarst.org/public-review/

Compliance Enforcement Program / Partnerships

SUMMARY OF COMPLIANCE - APPENDIX

Below is a summary of the ratings for each compliance component.

SYSTEM MONITOR AND LABEL	●
DUCT PIPING	●
EXHAUST TERMINATION	●
ASD FAN	●
SUMP REQUIREMENTS	●
SUB-MEMBRANE SYSTEM	●
ELECTRICAL	●
SEALING FLOOR & WALL CRACKS	●



Compliance Enforcement Program

How it Works

State Rn program contracts with IEA for desk-audits of measurement professionals and/or site inspections of mitigation systems

State Program provides:

- List of property owners to solicit, or a confirmed list of those interested
- List of measurement professionals to be audited

IEA Measurement Desk Audits include:

- QAP review
- Review of 3 test reports
- Summary report and recommendations

IEA Mitigation Inspections include:

Onsite inspection with photos using phone app
Summary report and recommendations

Symposium Stats

Attendees: 412

States represented: 47

Tribes represented: 5

Countries represented: 6



- Radon
- Chemical Vapor Intrusion
- Practice & Policy
- State & Tribes
- Federal Agency Updates
- New and Emerging Standards
- Science & Research

Rn
Radon
222 (136)

The Evolution of Lending Libraries in Canada
Anne-Marie Neel, MSc PhD
Faculty of Health Sciences
Simon Fraser University
anne@sfu.ca

As of 2023, over 500 Canadian public libraries lend digital radon monitors

- Began in Nova Scotia in 2018 - now in all provinces
- The majority lend AirThings Corentium Home devices due to easy digital display and privacy
- Pamphlets and instructions included in "kits" and kept up-to-date

Lending Kits- push to synchronize resources across the country

- Lended for 4 weeks (requirement)
- Devices taken out of circulation May-August and repaired, batteries replaced
- No patron information collected - ethical principles of libraries respected

How to fund radon library lending programs?

- Currently, primarily supported by Health Canada
- New updates- competitive grants for STEM programming within libraries- \$50
- Also- Some started by personal decisions and corporate sponsors

Problem- Wait lists are common - up to 2 years in some cases

- New initiative- coupons for alpha track detectors for wait lists
- Address ethical issues of waiting too long

Positive- Innovation is occurring

new programs started outside public libraries

- Career Centre libraries
- Public school libraries
- Community care centres in rural and remote communities

5 Tracks

85 Speakers

39 Exhibitors





Indoor Environments 2024

Radon & Vapor Intrusion Symposium

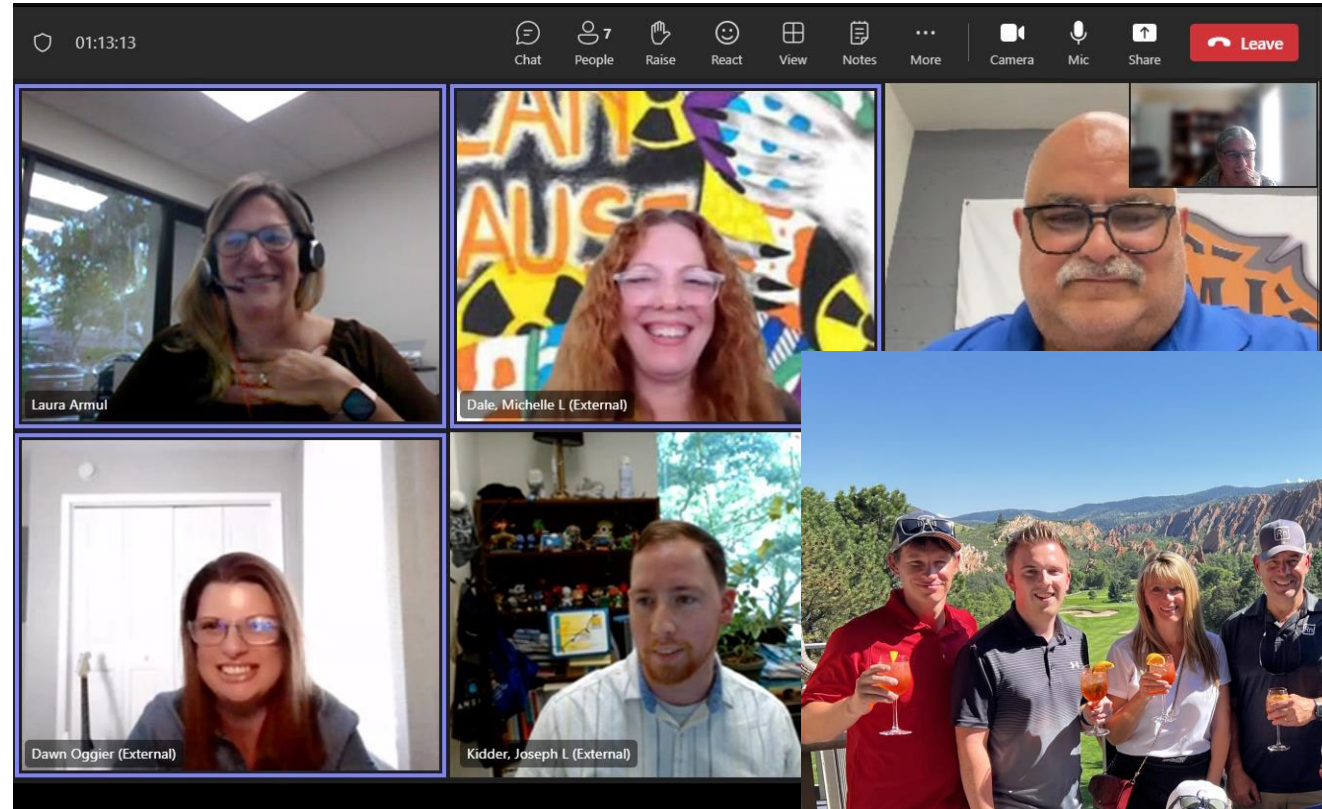
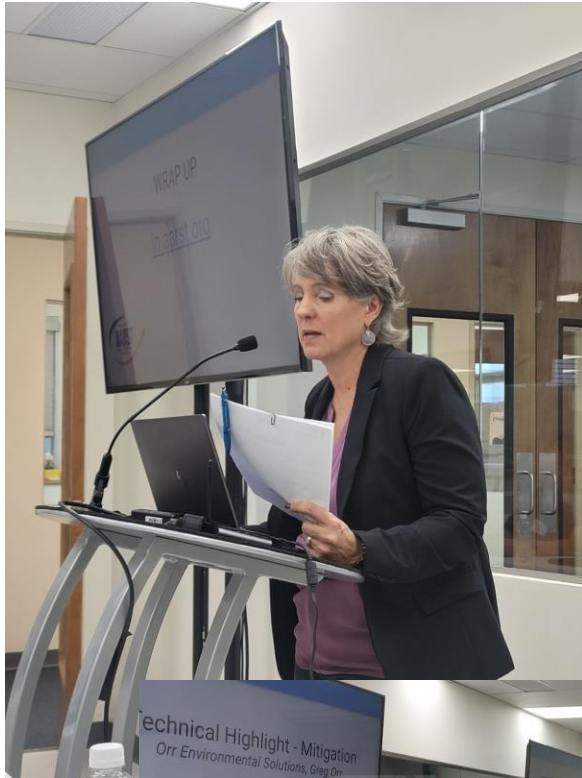


Hyatt Regency Grand Cypress
Orlando, Florida
September 15 – 18, 2024



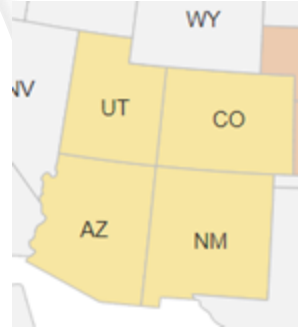
Registration is open -
aarst.org/symposium/

Chapters



EAST	SOUTH	CENTRAL	WEST
Maryland	Florida	Heartland	Rocky Mountain
New England	Kentucky	- KS, IA, MO, NE	- AZ, CO, NM, UT
New Jersey	Southeast	Indiana	
New York	Tennessee	Midwest - IL, MI, WI	
Pennsylvania	Virginia	Northstar - MN	
		Ohio	

Rocky Mountain Chapter



Chapter Leaders

Rachel Peterson (President)

Brent Ulbert (Vice President)

Zan Jones (Secretary)

Chad Smith (Treasurer)

David Wright (Member at Large)

rockymtnaarst.org

RMAARST will be attending the Tri-Regional (EPA Regions 8, 9 and 10) Radon Stakeholders Conference - April 23-24 in Reno, NV.

RMAARST will attend the American Lung Association Fight for Air Climb at the Colorado Rockies' Coors Field Stadium!

Radon Awareness Golf Tournament – October 1, 2024 in Littleton, Colorado

Stakeholder outreach ongoing to explore potential radon legislation in Utah