



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

AARSTTM

2024 EPA Region 5 Radon Stakeholders Meeting

July 9, 2024

Diane Swecker, Executive Director

director@indoorenvironments.org



Rebranding

**OFFICIAL
ANNOUNCEMENT**

AARST™

IS NOW



**INDOOR
ENVIRONMENTS
ASSOCIATION**

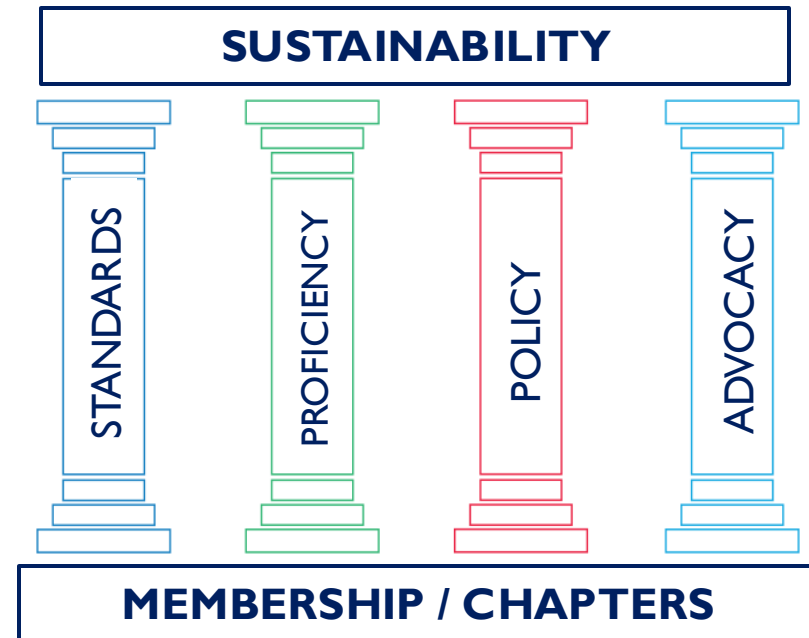
**NEW NAME ↘
SAME GREAT BENEFITS
and more!**

**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 in a larger, bold font. The logo is a 3D 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



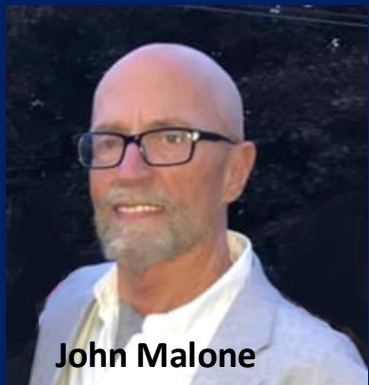
Aaron Freidrich



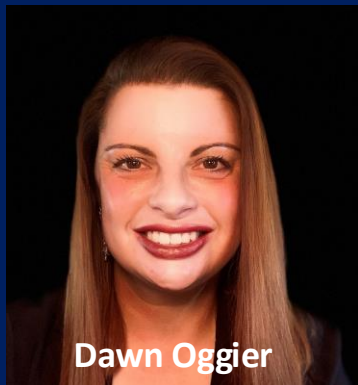
Zan Jones



Terry Kerwin



John Malone



Dawn Oggier



Kevin Stewart



Duane West



Shad Evans



Phil McDonnell

State Policy – Current Developments

- Testing before home sale – passed RI Senate, held in RI House
- Testing before home sale AND rentals – RE commission draft in MD
- ANSI-AARST Standards in effect in 16 states (100% in 14, one or more in 2)
 - Standards updated in VA
 - Standards update pending in FL
- Regulation through certification laws - MD, MO, NY, TN, WI
- Enhanced compliance sought in CO, IN, KY, MI
- School testing requirements under discussion in IL, PA

20 States Have Credential Requirements

Regulated State	Required Credential(s)		Current Meas/Mit Standard(s) in Effect	
	Private Certification*	State License / Certification	ANSI/AARST**	EPA, ASTM, other
California	X		All	
Colorado	X	X	All	
Connecticut	Mitigation	Mitigation	All (Mitigation)	
Florida		X	(update pending)	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		All (Mitigation)	
New Jersey		X	All	
Ohio		X		All***
Pennsylvania		X	Multifamily	Single Family
Rhode Island	X	X	All	
Utah	Mitigation	Mitigation	All (Mitigation)	
Virginia	X		All	
West Virginia	X	X	All	

*[National Radon Proficiency Program](#) or [National Radon Safety Board](#)

** [American National Standards Institute/American Association of Radon Scientists and Technologists](#)

***[State regulation](#) requires 100% ground contact testing in multifamily buildings

ANSI / AARST Standards



- **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*

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:

PUBLIC REVIEW  

AARST/ANSI RADON STANDARDS

SGM-SF - Soil Gas Mitigation Standards for Existing Homes

SGM-MFLB - Soil Gas Mitigation Standards for Existing Multifamily, School, Commercial and Mixed-Use Buildings

**Comments Deadline:
August 5, 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

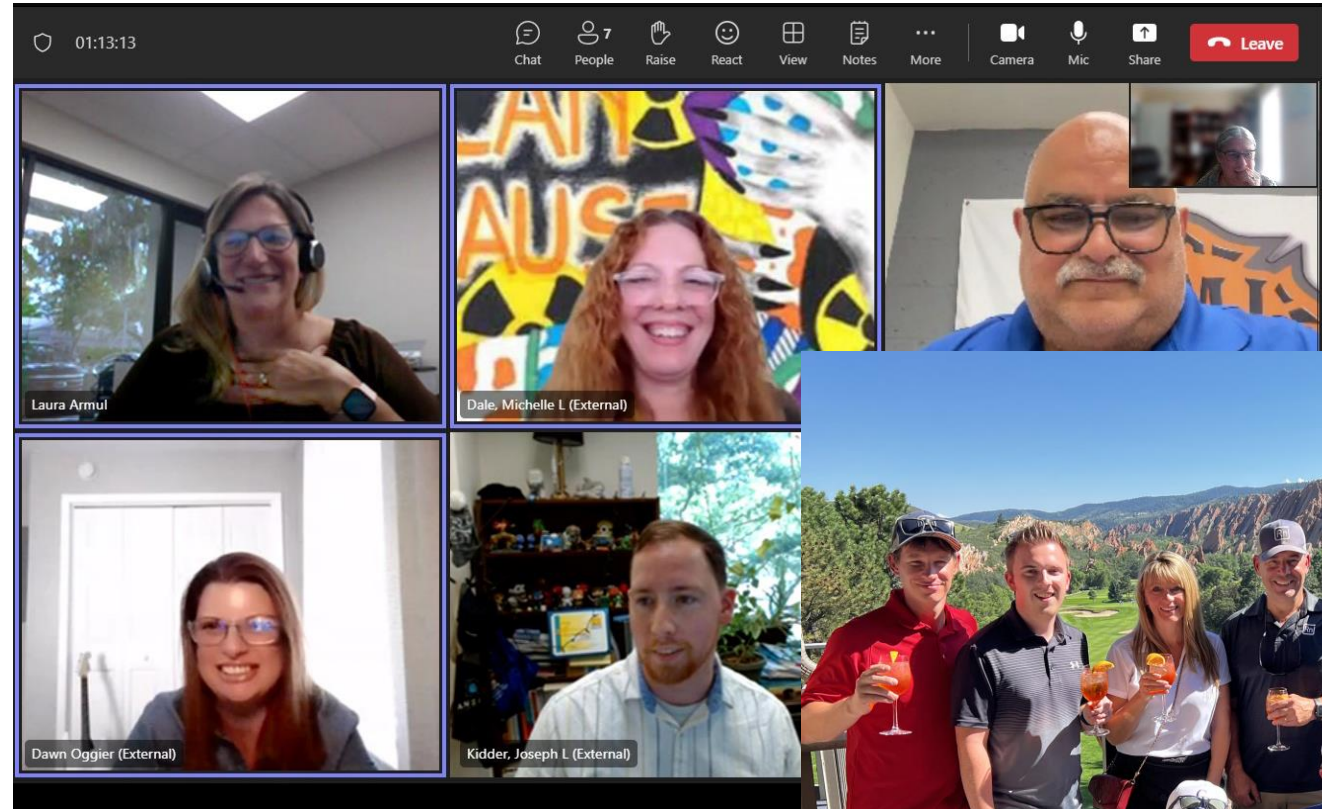
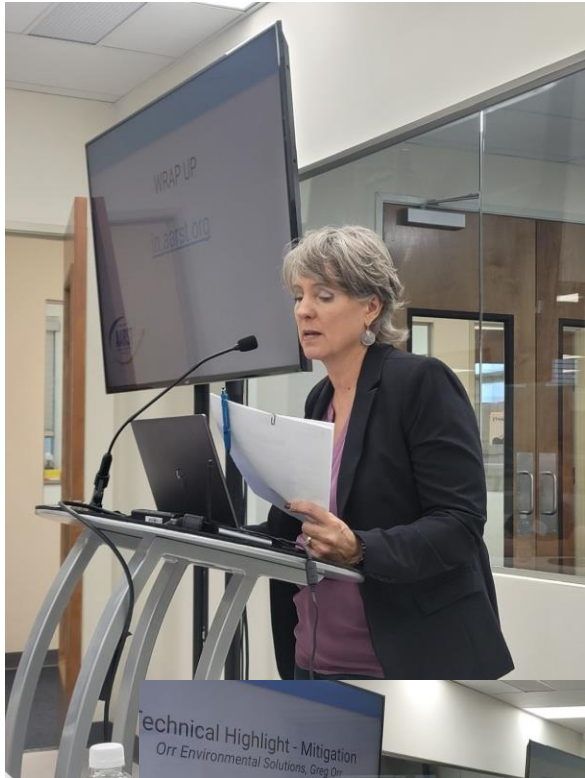
IEA Mitigation Inspections include:

Onsite inspection with photos using phone app
Summary report and recommendations

IEA Measurement Desk Audits include:

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

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	



ASSOCIATION

AARST™

Indiana Chapter

Chapter Leaders

Dawn Coffee (President)

Jennifer Long (Vice President)

Greg Orr (Secretary)

Lynda King (Treasurer)

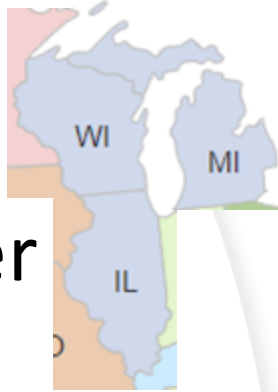
aarst.org/Report-Cards/IN-Report-Card.html

in.aarst.org

SUMMER KICK OFF

- Hosted a lunch and learn Q&A style webinar for members with our Indiana Radon Program Director as our guest; on June 15
- In June a call for nominations for chapter board member election this summer with board members to be in place by symposium time
- Govt Affairs committee has chosen to work on a single piece of legislation this year - a radon disclosure for the real estate transaction

Midwest Chapter



Chapter Leaders

Dan Potter (President)

Jim Emanuels (Vice President)

Aaron Morris (Secretary)

Kirsten Schmidt (Treasurer)

www.mwaarst.org

2023

- March 10 – well-attended Radon Stakeholder Conference, Chicago; hybrid event recorded.
- June 16 - Hosted IEMA listening session in Chicago, an opportunity for Radon Mitigators Measurement and Labs to give feedback on proposed rule change.
- August 1 - Illinois Governor Signed the *Radon Tenant Bill*, similar to the Buyers Awareness Act, affecting 3.5 million tenants in IL - a Midwest initiative.
- August 9 - Formally affiliated with National AARST

2024

- March 15: Radon Stakeholder Conference, Chicago
- School bill requires testing and mitigations in all public schools, currently has 28 co-sponsors (Senators and Reps) –to be presented in the fall session.

MN – NorthStar Chapter

Chapter Leaders

Mitch Kelley (President)

William Angell

Andy Kelley

- Rebooted chapter in 2023
- Surveyed Radon Professionals in MN about their interest in chapter activities and priorities
- Presently Editing Childcare and Daycare Testing Bill
- Planning Collaboration with the MN Dept of Health - Sponsored Day Event



Ohio Chapter

Chapter Leaders

Shad Evans (President)

Brenden Gitzinger (Vice President)

David Metzger (Secretary)

Jessica Karns (Treasurer)

- Continue the legislative efforts within the Ohio statehouse.
- Working on the line-item language for the budget correction bill and secured a sponsor for this line item.
- Working with a lobbyist to create a health consortium. The group is comprised of local, nonprofit, medical and public advocacy groups. The purpose is to engage like minded groups to lobby together for health and safety initiatives that benefit the citizens of Ohio.
- Successful annual golf outing and CE classes in June - proceeds help support the lobbying efforts.



INDIANA

The Radon Report Card: Risk and Response

Report Card

Population and Lung Cancer Total Population: 6,695,497

Lung Cancer Deaths: **3,652**

Age-Adjusted Lung Cancer Incidence Rate (per 100,000) **60**

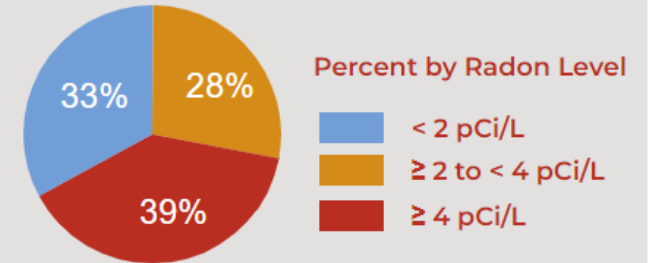
Lung Cancer Cases **5,032**

Radon-Induced Lung Cancer Cases **966**

* Medical Costs (hospital, medicine, doctors) **\$194,000,000**

* Economic Costs (lost wages / productivity) **\$204,000,000**

Buildings and Exposure Potential Pre-Mitigation Radon Tests: 43,148



Housing Units by Structure Type

	1 to 4 Units	5 or More Units	Total
Existing	2,520,786	365,001	2,885,787
New	16,829	5,480	22,309

Public Schools: 1,902

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.

Statewide Radon Policies

Credential Required	✓	Private Certification and State Registration
Radon Standards in Effect	✓	ANSI-AARST
Homebuyer Protection Required	✓	Disclosure Only
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	✓	Recommended
Radon System Requirement for New Schools	✗	No

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 (2008-2017). 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 Labs: CDC Environmental Public Health Tracking Network (2008-2017). Existing Housing Units and New Housing Units: US Census (2019). Public Schools: National Center for Educational Statistics (2020-2021).

2023 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
222.0176

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 donations and corporate sponsors

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

- New initiative- coupons for alpha track detectors for wait listed
- 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/