



Radon Reporter

SUMMER 2014

Preview 2014 INTERNATIONAL RADON SYMPOSIUM

Charleston, SC



AARST
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AARST-NRPP

The National Radon Proficiency Program (NRPP) is recognized as the nation's leading certification program for radon professionals, with over 2500 certified professionals qualified in measurement, mitigation and as radon laboratories.

Administered by the AARST, professionals engage in a process of continuing education, professional development and quality assurance protocols. All members are expected to operate in accordance with ethical practices based on national standards as well as adhering to local rules and regulations. Through the work of an advisory board and technical committees, the AARST-NRPP is involved in a process of continued quality and technical improvement and is working on new credentials which reflect state of the art approaches to radon services in the home, large buildings and schools.

NRPP staff and certified professionals are committed to excellence and professional compliance to national standards. This raises the professional profile of all radon professionals and ensures that radon measurement and mitigation in the home and workplace is properly addressed.

www.NRPP.info

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AARST, the American Association of Radon Scientists & Technologists, is a nonprofit, professional organization dedicated to the highest standard of excellence and ethical performance of radon measurement, mitigation and transfer of information for the benefit of members, consumers, and the public at large. AARST's leadership is democratically elected by the members.

AARST represents your voice as we meet the wide range of challenges facing radon professionals and the community. Your membership and participation provides you a voice in the changes to come, and allows you to gain updated information, discover new techniques, learn about new problems before they occur, and hone your professional skills.

AARST has several local chapters where you can meet other radon professionals and state and federal officials who work with the radon industry.

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AARST CHAPTERS

Email: chapters@aarst.org

Erie Canal

Joe Mahr
abitco@verizon.net

Heartland

Gary Boesker
boesinsp@hometelco.net

Kentucky (KARP)

Kyle Hoylman
khoylman@protectservice.com

Midwest

Ruth Ann Lipic
rlipic@ilstu.edu

New England

Dave Hill
dhill@spruce.com

OARP

Tracey Capuano
tcapuano@fuse.net

Tri-State

Celia Rajkovich
celiar@comcast.net

Rocky Mountain
Arnie Drennen
jarnold@drennenc.com

Officers, Board Members and Staff

PRESIDENT: Shawn Price
shawn@radon.com

PAST PRESIDENT: Carolyn Allen
carolyn@accustarlabs.com

VICE PRESIDENT: David Wilson
wilsondl@ornl.gov

VICE PRESIDENT: David Kapturowski
dave@spruce.com

SECRETARY: Michael Kitto
kitto@wadsworth.org

TREASURER: Calvin Murphy
calvin@alliedradon.com

BOARD MEMBERS:

Jay Bauder
jbauder3@comcast.net

Phil Jenkins
pjenkins@bowser-morner.com

Matt Koch
matt@southernradonreduction.com

Gloria Linnertz
seascape@htc.net

John Mallon
john@radondetectionandcontrol.com

Tony McDonald
tony@vaporremoval.com

Jim Morris
jmorris@njaes.rutgers.edu

Julie Somis
jsomis@bpgwi.com

Kevin Stewart
kstewart@lunginfo.org

Dan West
danwest@radon-systems.com

STAFF:

Executive Director - AARST
Peter C. Hendrick
(603) 756-9259
director@aarst.org

Nicole Chazaud
Marketing/Communications
nicole@aarst.org

Gwen Alexander
AARST Membership
gwen@nrpp.info

AARST-NRPP

Johnna McNamara
Exam Coordinator
johnna@nrpp.info

Janna Sinclair
Credentialing Coordinator
janna@nrpp.info

NRPP Compliance
compliance@nrpp.info

AARST-NRPP OFFICES

PO Box 2109
Fletcher, NC 28732
800-269-4174 Fax 828-654-9202
info@aarst.org

Radon Reporter Editor
Pat Everett
editor@aarst.org

Websites: Christi & Marc White
www.printandpromotion.com

FROM THE PRESIDENT



NEW MITIGATION STANDARD WORK UNDERWAY

Shawn Price
AARST President

I had the pleasure to attend a recent kick-off meeting in Research Triangle Park, NC that was attended by a dozen or so experts from the radon mitigation and environmental consulting world to break ground on a standard for mitigation standards for existing homes.

The standard will focus on active soil depressurization (ASD) for soil gases that will include radon but, for the first time, a standard will address mitigation of chemical vapors as a crossover into the Vapor Intrusion (VI) world. Once complete, this standard will lend itself perfectly for the development of a very specialized NRPP advanced mitigation certification that will require a considerable time investment to complete all of the prerequisites including advanced diagnostics, which seems to be a lost art in the radon world.

As I sat quietly and listened for most of the 2-day meeting, I learned quite a bit about the current state of radon mitigation in the U.S. and how the ASD technology is indeed the mitigation technology for chemical vapors. But once you leave the physics of drawing gases through the rock and soil underneath a building into PVC pipe and exhausting it properly, there are indeed many differences that the advanced credential will have to consider.

My Observations

First, we have it pretty easy in the radon world. We get a call from someone that has elevated radon and they want it fixed quick and cheap by the real estate closing next Tuesday. So we break out the pencil sharpener and whittle our prices down as low as

“The standard will focus on ASD for radon, but will also address chemical vapors.”

we can to get the job and don't even have to visit the property. We show up the next morning, look around for a couple minutes, and start drilling holes. We pop the system in as quickly as possible - heck, we wire it to the electricity while nobody is looking, give the homeowner a radon kit, and are on our way. When the test result shows a 3.9, we're clear and we get paid!

But many times this approach results in a 4.2, not a 3.9 and the seller is on our rear end. Maybe we should have gotten the shop vac out of the truck? Maybe we should have brought the manometer with us? Maybe a little larger suction pit? I guess I will have to caulk the joints this time? Or do I just pop on the Big Ass Fan®?

Ok, ok, I'm not trying to offend anyone, but you all know the reputation that radon mitigators have in the consulting world...quick, cheap, and sloppy. I don't think that is who we are at AARST and I'm going to push as hard as I can to change that reputation and so are several of your colleagues that will be working on the committee.

I also learned that the seller isn't the client in the VI world; the company that caused or is cleaning up the man-made contaminant is hiring the mitigator, and there are engineers and attorneys looking over your shoulder.

Instead of getting a 3.9 reading on a post mitigation test, these systems are designed to create a certain amount of negative pressure under the foundation, so the systems are designed for vacuum effectiveness and the mitigator has to know all of the diagnostic techniques for maximizing and guaranteeing pressure field extension. That will determine when the job is done, not a single air measurement indoors once the system is running. Measuring the chemical vapors is much more expensive and difficult than measuring radon, so the work specifications tell us when we're finished.

Another difference is that there are many health & safety concerns that we aren't accustomed to in radon. Some of the chemicals create health concerns at very brief exposures and this exposure is highly regulated in some areas. Before a mitigator even steps on the job site there are several health and safety requirements; they just don't stick their face down in the hole to excavate the suction pit without precautions including, but not limited to, proper respiratory and skin protection.

Some of the vapors, might be combustible or explosive, so there are also things one needs to know about proper fan selection that are safety related. There are things in this area that I think radon professionals should learn more about, even if not called to do a VI job.

Continued on p. 6



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always, "What did you like best about this course?"
And the answer is usually, "Trudy."

Trudy Smith, our Senior Training Specialist, is retiring
on August 31, 2014 after dedicating the last 14 years
to training and inspiring many, many radon professionals
as well as all of us at Spruce. We wish her the very best
in her retirement. You've earned it, Trudy!



Charleston, South Carolina

NO. 1 CITY IN NORTH AMERICA AND NO. 2 IN THE WORLD

2014 Travel + Leisure World's Best Awards

Charleston, S.C. (July 2, 2014) – For the second consecutive year Charleston is the No. 1 City in the U.S. and Canada according to Travel + Leisure's 2014 World's Best Awards. Charleston also ranked No. 2 City in the World in the annual readers' poll. The announcement was shared on MSNBC's Morning Joe on July 2. The complete results of the 2014 World's Best Awards Survey are featured on TravelandLeisure.com/worldsbest and in the August issue of the magazine.

This is actually the fourth consecutive year that Charleston has been named a top North American travel destination by a leading national magazine. Readers rank cities on sights and landmarks, culture and arts, restaurants and food, people, and value.

The historic city of Charleston is the oldest city in the state. Charleston's rich history includes wealth and prosperity followed by generations of great poverty. It has survived two major wars, invading armies, pirates and Indians, fires that destroyed entire city blocks, several hurricanes, and the largest earthquake ever to rock the U.S. East Coast.

Historic sites abound in Charleston. And military buffs can visit Fort Sumter, famous for being fired upon at the start of the Civil War, as well as a more modern monument, the U.S.S. Yorktown, a World War II naval aircraft carrier that was updated and served as an antisubmarine carrier in Vietnam.

On the cover and below: The Pineapple Fountain, which symbolizes hospitality, stands in Waterfront Park, in the downtown district. It is one of Charleston's most photographed landmarks.



Fodor's describes Charleston: "Wandering through the city's famous Historic District, you would swear it is a movie set. Dozens of church steeples punctuate the low skyline, and horse-drawn carriages pass centuries-old mansions and town houses, their stately salons offering a crystal-laden and parquet-floored version of Southern comfort. Outside, magnolia-filled gardens overflow with carefully tended heirloom plants. At first glance, the city resembles an 18th-century etching come to life—but look closer and you'll see that block after block of old structures have been restored. Happily, after three centuries, Charleston has prevailed and is one of the South's best-preserved cities."

*Don't Miss the
Symposium in
Charleston!*

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- CONTRIBUTE

and

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CHARM AT ITS FINEST.**

**SEPTEMBER 28TH -
OCTOBER 1ST**

NEW MITIGATION STANDARD (Continued from p. 3)

Then there is ongoing operation, monitoring and maintenance (OM&M). With radon, we get the 3.9 (or ideally less than 2) and the recommendation is to retest with a long term device or maybe again in two years. Very few warranties have us come back and inspect the system after the post-mitigation test has been completed unless the fan dies.

In the VI world, they are monitoring these systems for 30 years...30 years! Yes, there are expensive air tests being made in the VI projects, but there are also rechecks on the vacuum pressure under the foundation to make sure that the mitigation is still operating as designed and as signed off at the end of the installation. Who is planning on being around in 30 years? Do radon systems work for 5 years, 10 years, 15 years? Does anyone really know? So the VI work isn't for the fly-by-nighters or even quality residential radon mitigators who operate the business by themselves. The insurance is expensive and the work expectations are extreme.

While it might not be for everyone, we do have many amazing mitigators in our world that are indeed capable, and several of them will be helping on this new standard. My hope is that we will find ways of making the radon mitigation world more professional, more defensible, and that the cream will rise to the top leaving behind a higher degree of expectations and satisfaction with our radon mitigation clients.

One may ask, why in the world is AARST heading down this road if it is so different? That one is easy for me. AARST professionals know more about moving contaminated air out from under buildings than anyone else in the world. Once you put the safety differences, measurement, and OM&M aside for a moment, the physics of drawing air from under a building, into PVC pipe, and exhausting it **properly** is the same regardless of whether you are collecting radon, water vapor, chlorinated solvents, or petroleum-based products. Yes, some VI

chemicals cannot be exhausted into the outdoor air without additional precautions, but flowing the vapors through the pipe is much the same.

Thank you Dave Kapturowski for Chairing this committee. Gary Hodgden, you amaze me more every time I work with you. Thank you Tony McDonald, Tom Hatton, Nate Burden, Kyle Hoylman, and Bill Angell for attending the meeting from the radon community. Thank you Chris Lutes, Eric Lovenduski, Chris Bonniwell, and David Gillay for sharing your knowledge of the chemical vapor world. Thank you Robert Truesdale, Scott Guthrie, and Henry Schuver for making this meeting possible and extremely successful. I learned a ton during the meeting and I look forward to seeing the standard and advanced certification work unfold over the next few months.

To learn more about VI and its relationships to the radon world, make sure you come to the International Radon Symposium in Charleston, SC, September 28th to October 1st.



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Come to the Symposium

Preliminary Program Agenda

Symposium Overview

Sunday, September 28	Sunday Courses, Registration, Meetings, Exhibitor Setup, Welcome Reception see below
Monday, September 29	Joint Day with CRCPD page 9
	Spouse Event: Harbor Tour
Tuesday, September 30	Symposium Track 1 and Track 2 Sessions and Night Out. pages 11 & 13
Wednesday, October 1	Symposium Track 1 and Track 2 Sessions page 15

Sunday – September 28, 2014

Pre-Symposium Continuing Education Courses, Meetings, and Other Events

8:00am	Morning Advanced Certification and CE Courses Start (See details below.)
Morning	
7:00 - 5:00pm	Symposium General Registration/Check-In - Aarst Office; Classrooms Open
8:00	Courses Begin - See Details in Pre-Symposium Courses (below)
8:00 - Noon	Standards Committee (Blue Topaz)
Afternoon	
Noon - 5:00pm	Exhibit Hall Set-Up for Exhibitors/Poster Presentations
1:00	Afternoon CE Courses Start – See details below
1:00 - 3:00	AARST National Board Meeting (Blue Topaz)
4:00 - 5:00	NRPP Policy Advisory Board Meeting (Blue Topaz)
5:00	COURSES END; AARST OFFICE CLOSES
6:00 - 8:00	Joint Symposium Reception with CRCPD's National Radon Training Meeting (Exhibit Hall)

Advanced Certificate and Continuing Education Courses

SUNDAY AND MONDAY COURSES REQUIRE SEPARATE PRE-SYMPOSIUM REGISTRATION

Room names are shown in parentheses.

Time	Course	Instructor	CE Credits	Fee
8:am - 12pm	How to Build a Powerful Online Presence and Grow your Business	David Daniels, Philip Golding (Opal 2)	4 Category I	\$120.00
8am - Noon	Multifamily Measurement - CE and preparation for Advanced Certificate*	Spruce Environmental Technologies: Matthew Hendrick and Gary Hodgden (Yellow Topaz)	4 Category I	\$120.00
8am - Noon	Vapor Intrusion - CE and preparation for Advanced Certificate*	Kyle Hoylman (Crystal E)	4 Category I	\$120.00
8am - 5pm	Multifamily Mitigation - CE and preparation for Advanced Certificate*	Bill Angell, MURC (Crystal F)	4 Category I	\$240.00
1pm-5pm	RRNC - CE and preparation for Advanced Certificate*	Matt Koch (Crystal E)	4 Category I	\$120.00
1pm - 5pm	The Law and Radon Business	Patrick Zitek (Yellow Topaz)	4 Category I	\$120.00
1pm - 5pm	QA for Measurement	Lin Marie Carey, Healthy Homes Radon Education, Inc. (Opal 2)	4 Category I	\$120.00
MONDAY 3pm - 5pm	The Cost of Doing Radon Business	Lin Marie Carey (Jade or Garnet)	2 Category I	\$ 50.00

* **NOTES ON ADVANCED CERTIFICATE EXAMS:** NRPP Advanced Certificate Exams will be offered for MF Measurement, MF Mitigation and RRNC Monday through Wednesday in the AARST Office Area. Exams are \$55, and payable at time of the exam. Please advance register with Johnna McNamara (johnna@nrpp.info) if you definitely plan to take any of these exams. You may also register for an exam time slot while at the Symposium.

REMEMBERING JACK BARTHOLOMEW



On July 6th Jack Bartholomew, in the words of his obituary, "crossed over to surf that big solar wave in the heavens following a short battle with bladder cancer. He was enveloped in the love and support of his friends, whom he considered angels. A radon educator and contractor for more than 25 years, Jack dedicated his adult life to the fight against radon-induced lung cancer."

Jack's many friends and colleagues mourn his loss. Bill Angell, an AARST past president, reflected on Jack's life:

I had the privilege to meet Jack in 1988 at a U.S. EPA radon train-the-trainer course in Washington, DC. Jack came to this training with a background in air leakage testing in energy efficient houses in Idaho, Montana, Oregon, and Washington. Jack then moved on to Portland, OR to continue his radon mitigation work. Ten years later, he migrated to Minneapolis, MN where he provided radon mitigation through his business Radon, Energy, and Ventilation.

Jack and I began teaching radon courses together for the University of Minnesota's Midwest Universities Radon Consortium (MURC) in 1990. I especially admired Jack's curiosity about radon through a "whole building" or a building science approach with an environmental health focus. Over the years, I observed Jack's pleasure at spending days doing radon diagnostics and creating house specific radon mitigation proposals in the form of drawings. Eventually, I gave Jack the label a radon monk which he acknowledged with pride.

Jack was completely committed as a radon mitigation instructor. He was always seeking new techniques, such as the blower floor mock-up, to help students grasp important concepts and skills. Jack was deeply dedicated with student learning as well as instilling student commitment to excellence in radon diagnostics and mitigation. He encouraged students to contact him after class for assistance if they needed help, especially if they had done their part in pressure field extension testing.

While I will deeply miss Jack, I will also look for his legacy through the commitment to quality and discovery his students and colleagues demonstrate over the coming years. There is no greater honor to Jack beyond each of us recommitting to saving lives through the highest quality of radon control in buildings.

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Preliminary Program Agenda

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AARST ADVANCED CERTIFICATE EXAMS:
Ongoing from 8:00am - 5:00pm. Pre-Register
before the Symposium OR Register at AARST Office
for MF Rn Testing (2 hrs), MF Rn Mitigation (3
hrs) or RRNC (2 hrs). Exam times will be assigned
first pay, first serve, and based on eligibility.

Monday September 29, 2014

Joint Session with CRCPD National Radon Training Conference

Morning

Moderator: Patrick Daniels

Location: Emerald Ballroom

Time	Title	Speaker
8:00 - 8:20	<i>Welcome</i>	Henry Slack, USEPA Region 4; Shawn Price, AARST; Mike Snee, CRCPD
8:20 - 8:50	<i>Keynote</i>	Janet McCabe, AA USEPA OAR
8:50 - 9:50	<i>A New Dynamic for Risk Reduction</i> <ul style="list-style-type: none"> <i>Working with Partners</i> <i>Non-Profit Organizations Roles</i> <i>History of SIRG Funding (Putting All Your Eggs in One Basket)</i> <i>Many Agencies, Many Opportunities</i> 	Patrick Daniels, CRCPD Janice Nolen, ALA Peter Hendrick, AARST Randy Pence, Washington Lobbyist
9:50 - 10:00	<i>Q&A</i>	
10:00 - 10:30	<i>Break / Exhibits (Crystal Ballroom)</i>	
10:30 - 11:00	<i>Centers for Disease Control and Prevention</i>	Antonio Neri, MD, MPH
11:00 - 12:00	<i>Panel: Federal Radon Action Plan & Radon Leadership Allies</i>	Mike Flynn, USEPA; Patrick Daniels, CRCPD; Shawn Price, AARST; Matthew Ammon, HUD; Janice Nolen, ALA; Tony Neri, CDC

Afternoon

Moderator: Shawn Price

Session Topic: Meeting Policy Needs in the Future

1:30 - 2:30	<i>Open Space Setup & Update from Last Year's Discussions</i> <ol style="list-style-type: none"> <i>Cancer Coalitions</i> <i>Targeting Medical Professionals</i> <i>Policy</i> <i>Federal Stakeholders and Partnerships</i> <i>Standards</i> <i>SIRG</i> 	Moderators: Patrick Daniels, Kyle Hoylman Kyle Holyman and TBD Bill Field and Angela Tin Tony Neri and Bruce Sneed Pat Daniels and Dave Rowson Shawn Price, Josh Kerber, and Gary Hodgden Peter Hendrick and Clark Eldredge
2:30 - 3:00	<i>Break / Exhibits (Crystal Ballroom)</i>	
3:00 - 4:00	<i>Open Spaces (Multiple Rooms - TBA)</i>	
4:00 - 5:00	<i>Open Spaces Report Out</i>	
5:00	<i>Adjourn</i>	

Spouse Event

Monday, 8:00am

Charleston Harbor Tour on the The Charleston Explorer, with Captain Jack

Approximately 2 hours taking in the sights of Charleston Harbor. Cruise past Ft. Sumter, Ft. Moultrie, and Castle Pinckney, the forgotten sentinel of Charleston Harbor. \$50 per person (lunch not included)

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Preliminary Program Agenda

Subject to Change

Tuesday – September 30, 2014

AARST Track I and Track II

Morning

Note: Symposium attendees with AARST floor passes may attend publicly scheduled CRCPD National Radon Training Meeting sessions at no extra charge, and CRCPD attendees may attend these Symposium sessions. No additional badges are required and attendees are invited to attend any of these workshops and presentations.

ADVANCED CERTIFICATE EXAMS: Ongoing from 8:00am - 5:00pm. Pre-Register before the Symposium OR Register at AARST Office for MF Rn Testing (2 hrs), MF Rn Mitigation (3 hrs) or RRNC (2 hrs). Exam times will be assigned first pay, first serve, and based on eligibility.

Time	Track I (Crystal DEF)	Track II
8:00 - 8:20	Welcome: Shawn Price, AARST President	
8:20 - 8:40	Keynote: Partners In Healthy Lungs Angela Tin, Midwest ALA	
8:40 - 9:00	CanSar Angel Price	
9:00 - 9:20	Evaluation of Radon Testing Recommendations For Multi-Family Dr. Antonio Neri	About QA Measurement Lin Marie Carey
9:20 - 9:45	Initiatives of Health Canada's National Radon Program Jeff Whyte, Deepti Bijlani	Easy Solutions to Website Design John Petrowski, The Website Shoppe, Summerville, SC
9:45 - 10:15	Break / Exhibits / Posters (Crystal ABC) The Effect of Rain and HVAC Settings on Radon Levels in a Home , Pascal Acree Gross Alpha Activity In Water Using Electret Detectors , Michael E. Kitto	
10:15 - 10:35	Elements of Radon Risk: Compliance and Penalties in the Real World <i>A look at increasing risks facing the radon professional. Your fine could be 6 figures – or Much Higher!</i> Peter Hendrick and Panel	
10:35 - 10:55	Study on the Assessment of Soil Radon Release Rate in the Areas Geological Distribution in South Korea Kim (S.Korea)	1 NRPP Category I CE Case Study Rick Nipper
10:55 - 11:15	Recommendation for ('Positive EPI') Methods to Illustrate the Benefits of Removing/Reducing Soil Gas (e.g., Radon/Vapor) Exposures in Indoor Air Henry J. Schuver, DrPH	
11:15 - 11:35	Combining Tobacco Cessation and Radon Testing: A Multi Agency Collaboration to Promote the Health of Montanans Laura S. Larsson, PhD, MPH, RN	
11:35 - 12:00	Alert But Don't Alarm: Radon Risk Communication Strategies Of a UK Mitigator Rebecca Coates	Intro To OSHA's Construction 30 Tamara Rodriguez, OSHA Trainer
12:00 - 1:30	AARST Luncheon and Annual Meeting (Yellow & Blue Topaz)	

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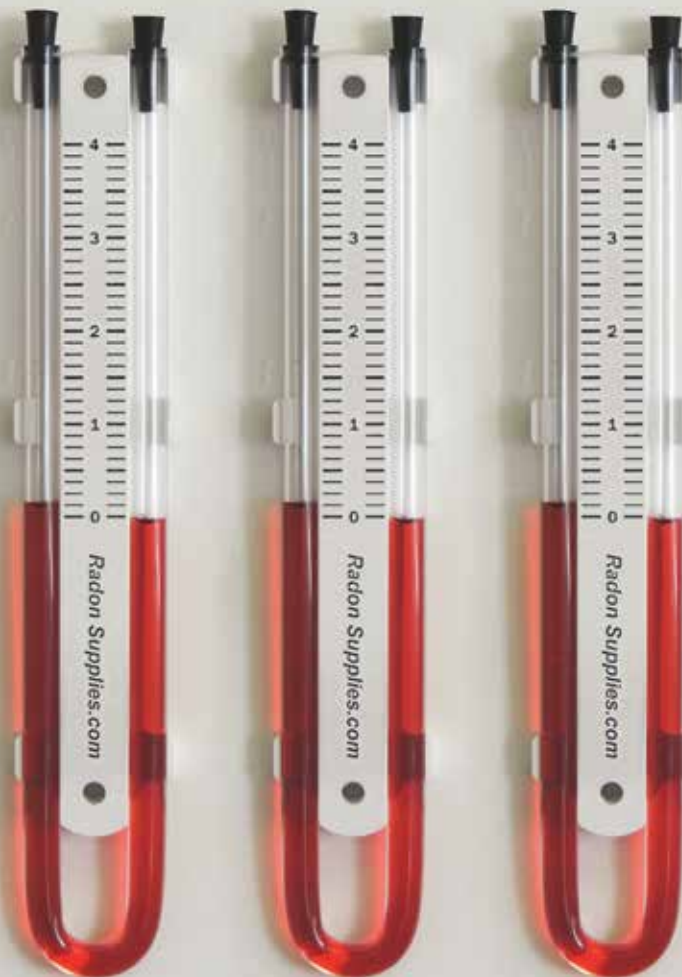


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The Foundation Purpose

AARST Foundation exists to partner with you in your efforts to reduce the number of radon induced lung cancer deaths.

1) help support AARST/ANSI Radon Standards (the Consortium's operating expenses include all of the following and more: printing, conference calls, editing, legal reviews, etc.)

2) assist those financially challenged, in testing for and/or remediating (if necessary) radon exposure in their homes.*

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Preliminary Program Agenda

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Tuesday – September 30, 2014

AARST Track I and Track II

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Afternoon

Time	Track I (Crystal DEF)	Track II
1:30 - 1:50	<i>System for Measurement of Radon in Natural Gas Using Lucas Cells</i> Michael E. Kitto	<i>Intro To Hazwopper</i> Tamara Rodriguez, OSH Trainer
1:50 - 2:10	<i>PAB & Re-Certification</i>	
2:10 - 2:30	<i>Radon Mitigation Financing Efforts for Poverty Level Residents in North Carolina</i> Phillip Ray Gibson, NC-DHHS	<i>How to Start and Build a Radon Business</i> David Daniels
2:30 - 2:50	<i>Residential Exposure in Dwellings of Kathmandu Valley (Nepal)</i> Buddha R Shah	
2:50 - 3:20	Break / Exhibits / Posters (Crystal ABC) <i>Why Charcoal Devices Must be Analyzed Soon After Measurement: Uncertainty and Minimum Detectable Concentration</i> , Phillip H. Jenkins, PhD, CHP <i>National and Local Perspectives on Radon Resistant New Construction Policies</i> , Allison K. Nesseth, SN	
3:20 - 3:40	<i>Indoor Radon Concentrations and Local Geology: Case Study From a University Campus of Nigeria</i>	<i>Radiation Safety</i> Michael LaFontaine, Physics Solutions Inc.
3:40 - 4:00	<i>Public Health Policy For Testing of Radon in Montana Schools</i> Veronica Champer, BSN, RN	
4:00 - 4:20	<i>Attenuation of Thoron(rn220) in Tyvek® Membranes</i> Paul Kotrappa	<i>V.I. Law</i> David Gillay, Kyle Hoylman
4:20 - 4:40	<i>Mitigation Techniques Used in Non-Residential Buildings: Occupational Health Dilution is the Solution? Worker Exposure and Radon</i> Winnie Cheng, Health Canada	
4:40 - 5:00	<i>Measurement of Radon Concentration Gradient Within Hollow Type Construction Masonry Units</i> Gordon T. Satoh, M.S.	<i>Tools for Successful Diagnostic Testing & System Design (Radon & V.I.)</i> Matt Koch
6:30 - 10:00	JOINT NIGHT OUT RIVERBOAT CRUISE Spirit of the Lowcountry	



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Preliminary Program Agenda

Subject to Change

Wednesday – October 1, 2014

AARST Track I and Track II

Morning

Note: Symposium attendees with AARST floor passes may attend publicly scheduled CRCPD National Radon Training Meeting sessions at no extra charge, and CRCPD attendees may attend these Symposium sessions. No additional badges are required and attendees are invited to attend any of these workshops and presentations.

ADVANCED CERTIFICATE EXAMS: Ongoing from 8:00am - Noon. Pre-Register before the Symposium OR Register at AARST Office for MF Rn Testing (2 hrs), MF Rn Mitigation (3 hrs) or RRNC (2 hrs). Exam times will be assigned first pay, first serve, and based on eligibility.

Time	Track I (Crystal DEF)	Track II
8:00 - 8:10	<i>Housekeeping</i>	
8:10 - 8:20	<i>The AARST Foundation, Calvin Murphy</i>	
8:20 - 9:05	<i>Experiences with Different Approaches to Involve the Citizen and Building Professional in Radon Protection</i> Angelika Kunte (Austria)	<i>Making Good Decisions about Bad Data</i> Tony McDonald
9:05 - 9:25	<i>Improved Healthy Housing Through Public Policy</i> Gloria Linnertz	
9:25 - 9:45	<i>Engaging Oncology Nurses in a Primary Prevention Project Related to Radon Exposure: Outcome Analysis and Implication for Practice</i> Maureen H. Quick, DNP, RN, OCN	<i>Radon and the Law</i> Patrick Zitek
9:45 - 10:15	<i>Break / Exhibits</i>	
10:20 - 11:00	<i>Solving the Conflict Between Basement Water-proofing Best Practice and Radon Management in the United Kingdom</i> Martin Freeman, UK Radon Association	<i>About Train the Speaker</i> Dr. Jim Burkhart
11:00 - 11:20	<i>Determination of Indoor and Soil Concentrations in Al Mafraq District, Jordan</i> Dr. H. M. Al-Khateeb	1 Category I CE (with exam) CASE STUDY Matt Koch
11:20 - 11:40	<i>Radon Risk Awareness Among University Employees of Obafemi Awolowo University</i> Deborah Falode, D.T.	
11:40 - 12:00	<i>An Improved Method for Long Term Radon Measurements: A Practical Application of the Dixon Criterion</i> Michael LaFontaine, P. Phys.	

NOON

SYMPOSIUM ENDS AND EXHIBIT HALL CLOSES



AARST
P.O. Box 2109
Fletcher, NC 28732
Phone: 800.260.4174
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