

**22<sup>nd</sup> International Radon Symposium – DRAFT PROGRAM**  
**American Association of Radon Scientists and Technologists (AARST)**  
Hyatt Regency Conference Center, Columbus, Ohio  
October 17-20, 2010

**PRINTED SCHEDULE FOR 2010 SYMPOSIUM PROGRAM as of August 4, 2010**  
**PROGRAM PRESENTATIONS AND TIMES ARE SUBJECT TO CHANGE**

To Register: [WWW.AARST.ORG](http://WWW.AARST.ORG)

**SATURDAY – OCTOBER 16, 2010**

**PRE-SYMPOSIUM MEETINGS**

7:00 – 4:30	Committee Meeting Space Available	(Grant)
7:00 – 6:00	Committee Meeting Space Available	(Harding)
5:00	AARST Staff Meeting and Walk Through	(Nationwide II)

**SUNDAY – OCTOBER 17, 2010**

**PRE-SYMPOSIUM CONTINUING EDUCATION COURSES, MEETINGS, AND OTHER EVENTS**

**2010 THEME: *LOCAL CHAPTERS DELIVER***

8:00	MORNING C.E. COURSES START – SEE DETAILS IN C.E. BELOW	
8:00	SYMPOSIUM STAFF AND VOLUNTEERS MEET FOR BRIEFING WITH STAFF (NATIONWIDE II)	
10:00 – 5:00	SYMPOSIUM REGISTRATION DESK OPEN	(NATIONWIDE II)
10:00	MEETING TIME OPEN	(GARFIELD)
1:00 – 4:00	<i>EXHIBITION HALL</i> <i>SET-UP FOR EXHIBITORS/POSTER PRESENTATIONS</i>	(HAYES)
1:00 PM	AFTERNOON C.E. COURSES START – SEE DETAILS IN C.E. BELOW	
1:00 PM	<i>AARST NATIONAL BOARD MEETING</i>	(GARFIELD)
3:00 PM	NEHA-NRPP POLICY ADVISORY BOARD MEETING	(GARFIELD)
5:30 PM	<i>AARST ELECTION SUPERVISORS MEETING</i>	(GARFIELD)
6:00 -8:00	<i>JOINT RECEPTION WITH CRCPD</i>	(MCKINLEY)

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**Category I Continuing Education Training – Pre-Symposium**

**SUNDAY C.E. COURSES REQUIRE PRE-REGISTRATION  
BY OCTOBER 10, 2010**

Additional mini-courses of 1 to 2 hours providing Category I credit (NEHA-NRPP) are available without charge during the Symposium's Tuesday and Wednesday concurrent sessions. For the Tuesday and Wednesday C.E. "Plenary" sessions, please check with your state or accrediting organization to see if C.E. has been approved. The Plenary sessions are approved for Category II NEHA-NRPP continuing education credits.

**Continuing Education Courses – Sunday, October 17, 2010 – 4, 8, and 16 CE Credits  
Pre-registration required - Registration as indicated with each course**

**8:00 AM – 5:00 PM** (HARRISON)  
**INSPECTING RADON MITIGATION SYSTEMS - 8 NRPP CE CREDITS**  
**HEARTLAND CHAPTER OF AARST IN CONJUNCTION WITH SPRUCE ENVIRONMENTAL**  
**FEE: \$150.**

This course is designed to train the radon professional and inspectors to identify observable aspects of a residential radon system that may impact its proper operation. The course especially focuses on those defects that may increase a health risk from radon-induced lung cancer or cause structural damage or fungal growth from improper moisture management.

The mitigation system information is organized to flow into a residential inspection process so that it follows a logical inspection pattern. The afternoon session will be a guided field trip to view a mitigation system and the process that went into its design. The course is based on the ASTM E2121 guidelines with reference to EPA's past Radon Mitigation Standards and comparisons to ASHI's checklist.

Order online at [www.aarst.org/ce.shtml](http://www.aarst.org/ce.shtml)

**8:00 AM TO NOON** (GRANT)  
**PROPER USE AND QA/QC PROCEDURES FOR CONTINUOUS RADON MONITORS (CRMS) AND  
ACTIVATED CHARCOAL (AC) DEVICES - 4 NRPP CE CREDITS**  
**AIRCHEK AND FEMOTECH**  
**FEE: \$90.**

Order online at [www.aarst.org/ce.shtml](http://www.aarst.org/ce.shtml)

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Continuing Education Courses – Sunday, October 17, 2010 – 4, 8, and 16 CE Credits  
(Cont.)

**10:00 AM – 2:00 PM**

**(HARDING)**

**RADON: TRAIN THE SPEAKER - 16 NRPP CE CREDITS:**

**CENTER FOR ENVIRONMENTAL RESEARCH & TECHNOLOGY INC. (CERTI)**

**FEE: \$265**

**INCLUDES HOME STUDY COURSE AND CLASSROOM SESSION**

*Radon: Train the Speaker* provides you with technical expertise for giving radon presentations, along with a demonstration of presentation techniques that will enhance your public speaking skills. The course includes a PowerPoint Presentation that you can adapt for use in your own presentations. There is a full technical review for each slide to provide you with answers to typical questions and concerns from audiences. Students completing this course are eligible to be listed on the Radon Speakers Bureau on the NEHA-NRPP and CERTI websites.

**Home Study Course Section**

Students complete the home study course (12 CE) prior to the classroom session. Course materials are shipped to you and include:

- audio CDs and video DVDs
- course manual
- online quizzes

**Classroom Session – 10:00AM – 2:00 PM – October 17, 2010**

Brief review of the home study course followed by student presentations with feedback and coaching on techniques.

**RADON TRAIN THE SPEAKER CLASSROOM SESSION ONLY – 4 NRPP CE CREDITS:**

**(HARDING)**

Classroom Session indicated above is also available for 4 CE credits as a separate course *for students that have previously taken the CERTI Home Study Radon: Train the Speaker* (NRPP 1A)

**Fee: \$90**

Order online at [www.certi.us](http://www.certi.us), or phone 1-800-513-8332.

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**BREAKFAST ON YOU OWN – NO CONTINENTAL BREAKFAST THIS YEAR**

**Spouses Day Out - Tentative Schedule (More Details to Follow)**

8:30 a.m. - Meet at the bus at the hotel  
9:30 a.m. - Anthony Thomas Chocolate Factory [www.anthony-thomas.com](http://www.anthony-thomas.com)  
11:30 a.m. - Lunch at Schmidt's Sausage Haus in Old Town [www.schmidthaus.com](http://www.schmidthaus.com)  
1:00 p.m. - Franklin Park Conservatory [www.fpconservatory.org](http://www.fpconservatory.org)  
5:00 p.m. - Back to Hotel.

**MONDAY – OCTOBER 18, 2010**

**Joint Meeting Day**  
**with CRCPD's National Radon Training Meeting**  
**Union Room**  
**Bill Bell, Moderator, CRCPD Radon Committee Chair**

- 8:00 – 8:15    **Welcome**  
Ohio Welcome – Dr. Jackson , Ohio Department of Health  
Ohio Association Radon Professionals – Alexia Workman, President  
Logistics – Marybeth Rich, Ohio Dept of Health
- 8:15 – 9:00    **Keynote**  
Ray Johnson  
Risk Communication – Creating an Actionable Message
- 9:00 – 9:20    Mike Flynn, Director of USEPA Office of Radiation and Indoor Air
- 9:20 – 9:45    ***Set up for Quality session – Why quality matters***  
Bill Bell, CRCPD, and Carolyn Allen, AARST President
- 9:45 – 10:15    **Break / Exhibits – Hayes Room**
- 10:15 – 11:00    ***Quality is never an accident***  
QA/QC Measurement and Laboratory Services  
Industry Perspective – Phil Jenkins  
EPA – Janie Palmer  
Quality Mitigation  
Practitioner Perspective – John Mallon (Peter)  
State Perspective – Marybeth Rich, ODH
- 11:00 – 12:00    ***Joint Leadership Updates***  
AARST - Bill Angell  
EPA - Bill Long  
CRCPD – Mike Gilley

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12:00 – 1:30    **Luncheon in Franklin Room**  
**Moderator Bill Bell**

*Award presentations by Mike Gilley and William Angell*

**RADON RESISTANT NEW CONSTRUCTION**  
**Moderator – Carolyn Allen, Incoming AARST President**

1:30 – 1:50    ***Radon In Green Buildings and Other Health Housing Initiatives***  
Dave Jacobs, National Center for Healthy Homes

1:50 – 2:10    Builders perspective of RRNC  
Ed Hudson, NAHB Research Center

2:10 – 2:30    **RRNC 2.0: “Reducing Radon in New Construction of 1 & 2 Family Dwellings and Townhouses.”**  
Dave Kapturowski, Committee Chair - AARST Standards Consortium

2:30 – 2:45    ***Questions and Answers with Note Cards***

2:45 – 3:15    **Break / Exhibits – Hayes Room**

3:15 – 3:35    ***Policy Development for RRNC***  
Pat Daniels, Governors Task Force for RRNC Illinois

**RAISING THE PUBLIC’S AWARENESS**

3:35 – 4:00    ***Lead - the Heavy Metal. NOT Music to Your Ears!***  
Matt Young, ODH

4:00 – 5:00    ***Getting radon into other cancer efforts***  
Radon Tee World Trek 2010, Kyle Hoylman  
ACS Relay for Life – Team Radon, Angel Price  
Georgia Cancer Coalition, Southface  
Southern Illinois Lung Cancer Initiative, Matt from ALA-III.

5:00            **Adjourn**

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**TUESDAY – OCTOBER 19, 2010**

***Local Chapters Deliver!***

**BREAKFAST ON YOU OWN – NO CONTINENTAL BREAKFAST THIS YEAR**

Note: Symposium attendees may attend publicly scheduled National Radon Meeting sessions at no extra charge Moderators:

***Symposium Plenary Session: Peer-Reviewed Research Papers – Taft C & D***

**8:00 – 8:20 AN ADVOCATE’S REAL STORY**  
**A Cancer Survivor Against Radon Tells Her Story**

**8:30 – 10:00 Concurrent Sessions Internet - Marketing 101 – Dave Naggar, Spruce**  
**2.0 Hr NRPP CE Credit, No Fee – Included in Registration Fee**  
**(Harrison)**

This course is designed for radon professionals with little to no knowledge of internet marketing. The course will briefly introduce the benefits of having a company website and cover the basics of establishing one. We will also review some of the most popular/common and effective techniques used in online marketing, including social media, blogs, pay-per-click advertising and email marketing.

**8:20 – 8:40 EXPERIMENTAL DETERMINATION OF THE EFFECTIVENESS OF**  
**RADON BARRIERS** Michael E. Kitto Ph.D., NY State Dept of Health

**8:40 – 9:00 EXAMINATION OF OHIO INDOOR RADON DATA,**  
Ashok Kumar, the University of Toledo, Ohio

**9:00 – 9:20 SHOULD ONLY ACTIVE RADON RESISTANT NEW CONSTRUCTION**  
**BE REQUIRED IN ALL ZONE ONE COUNTIES?** James L. McNees, CHP  
Office of Radiation Control, Alabama Department of Public Health

**9:20 – 10:00 AIR PIPESCAPE’ PROGRAM, AN AID TO OPTIMIZE RADON MITIGATIONS**  
Leo Moorman, Ph.D., Fort Collins, CO

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**10:00 – 10:30 Break, Exhibits, and Poster Sessions.**

**(Hayes)**

**POSTER SESSIONS AT 10: 00 AM IN EXHIBITION HALL**

**COMPARISON OF TWO DAY CONSECUTIVE RADON MEASUREMENT RESULTS TO 90 DAY AVERAGE MEASUREMENT RESULTS, USING THE DATA FROM CONTINUOUS RADON MONITOR IN A TYPICAL SINGLE FAMILY HOME IN MD, USA** (Poster Session Presentation) Fredrick Stieff, Payasada (Paul) Kotrappa Rad Elec Inc.

**RADON'S EMISSION IN ORNAMENTAL ROCKS**

(Poster Session Presentation)

Gavioli, Y. S.<sup>1</sup>, <sup>1</sup>Centro de Tecnologia Mineral -CETEM-RJ Rio de Janeiro, Brazil

**11 – 12:00 Concurrent Business Session: Continuing Education**

**(Harrison)**

**Dave Hill, Spruce Environmental Technologies**

**2.0 Hr NRPP CE Credit, No Fee – Included in Registration Fee**

**Symposium Plenary Session**

**10:30 – 10:50 RADON-RELATED LUNG CANCER DEATHS AND MITIGATION COST EFFECTIVENESS IN A RADON PRONE REGION**, Daniel J. Steck  
Physics Department, St. John's University

**10:50 – 11:10 DESIGN AND PERFORMANCE OF AN AERATED FLOOR SYSTEM FOR RADON MITIGATION PROJECTS**, Bill Morris, Enviro Group Limited

**11:10 – 11:30 THE DISTRIBUTION OF INDOOR RADON CONCENTRATIONS**  
Willard E. Hobbs, Jr., Radon Reduction & Research

**11:30 – 12:00 NATION-WIDE <sup>222</sup>Rn AND <sup>220</sup>Rn ATLAS FOR INDIA**  
L.A.Sathish, Department of Physics, Government Science College, Bangalore

**Noon – 1:30 AARST Annual Meeting and Luncheon – (location TBD)**

**Guest Speaker: Construction Expert Ted Garrison** will be our keynote speaker on Tuesday, Oct 19th at lunchtime. Ted combines over 25 years of construction experience in hotels, office buildings, office parks and public buildings with years of research in leadership, marketing, strategic thinking and project management to offer the construction industry breakthrough solutions that really work.

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**3:00 - 4:00** **The History of Basement Health** Steve Andras, President of Pioneer Basement  
(A SPECIAL PRESENTATION; NOT PART OF THE FORMAL SYMPOSIUM PROCEEDINGS)

**4:00 - 5:00** **Local Chapter's Delivery – AARST Leadership & Staff**  
AARST Chapters - Stand and Deliver!  
Breakout Sessions

**5:00** *Adjourn*

**6:30 – 10:00** ***NIGHT OUT EVENT*** GordonBiersch Brew Pub and Restaurant  
*JOIN US FOR LOTS OF FUN AT A BREW PUB IN THE HEART OF COLUMBUS'*  
*ENTERTAINMENT DISTRICT – IT'S A FUN TOWN!*

DRAFT

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**WEDNESDAY, OCTOBER 20, 2010**

**BREAKFAST ON YOU OWN – NO CONTINENTAL BREAKFAST THIS YEAR**

Note: Symposium attendees may attend publically scheduled National Radon Meeting sessions at no extra charge. Morning Session Moderators:

**8:15 - 10:15 Concurrent Continuing C.E. 2 Credits Advanced Mitigation (Harrison)**

**The Dreaded Crawlspace - 2 Hours Instructors**  
**Panel Moderator Dave Hill**  
**NRPP CE Credit, No Fee – Included in Registration Fee**

It can't be avoided: sooner or later you will come across a difficult crawlspace – too tight to fit into, too wet to work in, or sometimes just too nasty. How do your colleagues work with, and in, tough crawlspaces? Our panel of experts will discuss – and demonstrate through photos and video – some tough crawlspaces they have encountered and how to properly deal with them. Bring your own photos and diagrams to discuss with the panelists and attendees.

*Symposium Plenary Session: Peer-Reviewed Research Papers – Taft C & D*

**8:00- 8:10 HOUSEKEEPING/ANNOUNCEMENTS**

**8:10 - 8:30 IMPROVING INDOOR AIR QUALITY BY REDUCING RADON AND VAPOR INTRUSION THROUGH THE USE OF ETHYLENE VINYL ALCOHOL (EVOH)**  
Armstrong, R., Kuraray America, Inc.

**8:30 –8:50 THE MINNESOTA STATE RADON PROGRAM PROGRAM EFFECTIVENESS AS RELATED TO THE IMPLEMENTATION OF A REGULATORY POLICY: A WHITE PAPER,** Andrew Gilbert, Minnesota Department of Health Indoor Air Unit

**8:50 – 9:10 NATIONAL STATE LEGISLATION SUMMIT PROJECT**  
THE STATE LEGISLATION RADON EDUCATION PROJECT

**9:10 – 9:40 RADON GUIDELINES FOR LOW-INCOME WEATHERIZATION,**  
William Angell, University of Minnesota

**9:40 – 10:00 COULD A LUNG CANCER DEATH BE THE LEGAL RESPONSIBILITY OF THE RADON TESTER OR MITIGATOR?** Grammer, David  
RAdata

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**10:00-10:30 Break, Exhibits, and Posters**

**POSTER SESSIONS:**

**PRE-ASSEMBLED DO-IT-YOURSELF MITIGATION KITS**

Thomas E. Shaeffer, Radon Solutions

**THE 5 WS OF A RADON WEBSITE** Michael E. Kitto, NY State Dept. of Health

**10:30 –12:00 Concurrent Session – Business Solutions (Harrison)**

**Insurance, Customer Service Agreements, Limiting Liability**

**No Credits but Priceless Advice**

**No Fee – This Is Included in Your Registration Fee**

*Symposium Plenary Session: Peer-Reviewed Research Papers – Taft C & D*

**10:30 – 10:50 Interaction of radon exposure and smoking among Czech uranium miners**

Ladislav Tomasek, National Radiation Protection Institute, Czech Republic

**10:50 – 11:10 DESIGNING EFFICIENT SUB SLAB VENTING AND VAPOR BARRIER SYSTEMS FOR SCHOOLS AND LARGE BUILDINGS,** Thomas E, Hatton

Clean Vapor, LLC

**11:10 – 11:40 Pending - Presentation on New Lead Rules**

**11:40 – 12:00 ANNUAL AARST REPORT**

**12:00 Noon AARST National Board Meeting (Garfield)**

**12:00 – 1:30 Lunch on your own**

**1:15– 3:00 AARST members and Symposium attendees are invited to rejoin CRCPD's National Radon Training Meeting for EPA Roundtable Discussions.**

**1:15 – 3:20 Action Planning / Open Spaces - Jeggan Cole, CRCPD & Katrin Kral, EPA**

RRNC Notecards

State Programs at Risk Notecards