



## **27<sup>th</sup> National Radon Training Conference**

### ***Sponsored by***

Conference of Radiation Control Program Directors, Inc.

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## CRCPD's E-25 Committee on Radon

|                                |             |
|--------------------------------|-------------|
| Patrick Daniels, Illinois      | Chairperson |
| Eleanor Divver, Utah           | Member      |
| Jorge Laguna, Florida          | Member      |
| Chrystine Kelley, Colorado     | Member      |
| Joshua Kerber, Minnesota       | Member      |
| Michelle Brewer, Oklahoma      | Member      |
| Phillip Gibson, North Carolina | Member      |
| Susie Shimek, EPA              | Resource    |

### **Disclaimer**

The opinions and statements of individuals, agencies, or corporations, presented in the form of papers, exhibits, or any other methods of expression at this conference are not necessarily endorsed by, nor the opinion of, the Conference of Radiation Control Program Directors, Inc. (CRCPD), and CRCPD has no responsibility or liability for the contents thereof.

## Welcome to the 27<sup>th</sup> National Radon Training Conference

The Conference of Radiation Control Program Directors, Inc. (CRCPD), 27<sup>th</sup> National Radon Training Conference runs concurrently with the American Association of Radon Scientists and Technologists (AARST) 2017 International Radon Symposium. Registration for either meeting allows you to attend the plenary sessions of both organizations. Monday's meeting is a joint session with AARST. AARST's draft schedule, as received from AARST, appears immediately following CRCPD's agenda.

CRCPD's E-25 Committee on Radon developed the agenda from the 26<sup>th</sup> National Radon Training Conference. Attendees of last year's National Training Conference in San Diego, California, suggested many of the topics and presentations. We really encourage you to complete and submit the daily critique forms about this meeting. Your input is valuable. Let us know what you think.

## Radon Hero Award

The Radon Hero Award was approved by the CRCPD Board of Directors in November 2006.

The CRCPD recognizes that exposure to indoor radon is a significant contributor to total radiation exposure received by the public and is the second leading cause of lung cancer. This award is to recognize an individual who has demonstrated leadership in reducing the health effects of radon exposure. The award will be given based on the individual's contribution to this effort, on their breadth and scope of services, and commitment to sustained radon risk reduction.

### Recipients

2007 – Phil Anthes  
2008 – Kevin Stewart  
2009 – Michael Pyles  
2010 – Robert Stilwell  
2011 – Patrick Daniels  
2012 – William J. Bell

2013 – Robert Lewis  
2014 – Marybeth Rich  
2015 – Laraine Koehler  
2016 – Angela Tin  
2017 – Clark Eldredge



## JOINT CRCPD/AARST SESSION

Moderator: Patrick Daniels (*Chairperson, CRCPD E-25 Committee on Radon*)

### Welcome

- Phil Jenkins (*AARST President*)
- Patrick Daniels (*CRCPD, Chairperson, E-25 Committee on Radon*)

### Keynote Address:

- **The Pennsylvania Experience** [10-2-2017\\_0815-Allard](#), [10-2-2017\\_0816-Allard](#)  
- David J. Allard, CHP (*Director, Pennsylvania Radiation Control Program*)
- **LeHigh Valley Mitigation Experience** [10-2-2017\\_0845-Broadhead](#)  
- Bill Broadhead (*WPB Enterprises, Inc.*)

### Hope for Lung Cancer: New Treatment and Diagnosis [10-2-2017\\_0915-Ackerley](#)

- Dr. Wallace Akerley (*Huntsman Cancer Center*)

### Update from the Hill [10-2-2017\\_0915-Malone](#)

- Jane Malone (*AARST*)

### National Radon Map [10-2-2017\\_1100-Brown](#)

- Dallas Jones (*AARST*)
- Eric Brown (*Colorado Department of Public Health and Environment*)

### Luncheon

- David J. Allard, CHP (*CRCPD Chairperson*)
- Phil Jenkins (*AARST President*)

## JOINT CRCPD/AARST SESSION

Moderator: Phil Jenkins (*AARST President*)

### Joint Leadership Update

- William Long (*EPA*)
- Phil Jenkins (*AARST*) [10-2-2017\\_1330-Jenkins](#)
- Patrick Daniels (*CRCPD, Chairperson, E-25 Committee on Radon*) [10-2-2017\\_1330-Daniels](#)

### Reducing Radon Exposure During Childhood – A Review of Evidence and Policy Initiatives [10-2-2017\\_1415-Nicol](#)

- Dr. Anne-Marie Nicol (*Simon Fraser University in Canada*)

### Montgomery Lab Update [10-2-2017\\_1530-Saunders](#)

- Dr. David Saunders (*EPA*)

### US Intercomparisons [10-2-2017\\_1550-Battista](#)

- Melinda Ronca-Battista (*Tribal Air Monitoring Support Center*)

**CORIA-Coalition of International Radon Associations** [10-2-2017\\_1610-Villanueva](#)

- Jose Luis Gutierrez Villanueva (*International Radon Measurement Association*)

**Health Professionals Guide to Radon** [10-2-2017\\_1635-Field](#)

- Dr. William Field (*University of Iowa*)

**SCHOOL AND DAYCARE TESTING**

Moderator: Jorge Laguna (*Florida*)

**Conducting Radon Surveys in Schools and Child Care Facilities**

- Doug Kladder (*Center for Environmental Research and Technology, Inc.*)  
[10-3-2017\\_0805-Kladder](#)

**Summary of Illinois School Data** [10-3-2017\\_0825-Fyfe](#)

- Hannah Fyfe (*American Lung Association of the Upper Midwest*)

**Spatial Analysis of Indoor Radon in Florida Schools and Residences**

- Jorge Laguna (*FL Radon Program*) [10-3-2017\\_0845-Laguna](#)

**Spokane Tribal Homes: A Journey of Health from the Water to the Air**

- Lucas Bair (*Spokane Tribal Natural Resources*) [10-3-2017\\_0905-Bair](#)

**Region 10 Tribal Update** [10-3-2017\\_1015-Boulafentis](#)

- Carolyn Kelly (*Tribal Healthy Homes Network, Quinault Indian Nation*)
- Johna Boulafentis (*Nez Perce Tribe Air Quality Program*)

**Using CDC EPHT with Radon** [10-3-2017\\_1035-Monti](#)

- Michele Monti (*Center for Disease Control, CDC*)

**Cancer Control Plans Update** [10-3-2017\\_1055-Monti](#)

- Michele Monti (*Center for Disease Control, CDC*)

**SRR Comments on ISO 17024** [10-3-2017\\_1115-Eldredge](#)

- Clark Eldredge (*FL Department of Health*)

**SCHOOL AND DAYCARE TESTING**

Moderator: Eleanor Diver (*Utah*)

**Reaching Out to EJ Community** [10-3-2017\\_1300-Burden](#)

- Nate Burden (*Fidelity Inspection and Consulting Services*)

**Kentucky CDBG in Multi-Family Housing** [10-3-2017\\_1320-Hoylman](#)

- Kyle Hoylman (*Protect Environmental*)

**Radon Outreach to Under-Served Areas of Illinois** [10-3-2017\\_1410-Brokaw](#)

- Abby Brokaw (*American Lung Association of the Upper Midwest*)

**Training Centers Working with States in Under-Served Areas**

- Bruce Snead (*Kansas State University*) [10-3-2017\\_1400 Snead](#)

**Radon Result Recovery for Tribal Community** [10-3-2017\\_1500-Tyler Holmes](#)

- Tyler Holmes (*Ponca Tribe of Nebraska, Environmental Protection Department*)

**The IAEA Radon Programme - 2017 and beyond** [10-3-2017\\_1520-Colgen](#)

- Tony Colgan (*International Atomic Energy Agency*)

**OUTREACH AND EDUCATION**

Moderator: Michelle Brewer (*Oklahoma*)

**National Real Estate Overview** [10-4-2017\\_0805-Brewer](#)

- Michelle Brewer (*Oklahoma Radon Program*)

**Educating NC Brokers Regarding Radon** [10-4-2017\\_0815-Hamlin](#)

- Corean Hamlin (*Director of Education and Licensing, North Carolina Real Estate Commission*)

**Working with Real Estate Professionals in Minnesota** [10-4-2017\\_0835-Acrand](#)

- Scott Arcand (*Minnesota Department of Health*)

**Working with Real Estate Professionals in Utah** [10-4-2017\\_0850-Divver](#)

- Eleanor Divver (*Utah Radon Program*)

**Working with Real Estate Professionals in Illinois** [10-4-2017\\_0905-Lewis](#)

- Melinda Lewis (*Illinois Radon Program*)

**Healthy Indoor Environment Protocols for Home Energy Upgrades**

- Aaron Johnson (*EPA, Indoor Environments Division*) [10-4-2017\\_1010-Johnson](#)

**Leveraging Energy Efficiency** [10-4-2017\\_1030-Lockman](#)

- John-Ryan Lockman (*Energy Smart Colorado*)

**Progress and Challenges in Reducing Lung Cancer Risk in a High Radon State** [10-4-2017\\_1050-Larsson](#)

- Laura Larsson (*Montana State University*)

**Associations of Groundwater Radon and Non-Lung Cancers: Current Understanding and Future Research** [10-4-2017\\_1110-Messier](#)

- Kyle Messier (*Post Doctoral Fellow, Environmental Defense Fund and the University of Texas at Austin*)

**Utah Environmental Public Health Tracking Network (EPHTN)**

- Nikki Campbell (*Utah Environmental Public Health Tracking (EPHT) Network*)  
[10-4-2017\\_1130-Campbell](#)

**OUTREACH AND EDUCATION**

Moderator: Phillip Gibson (*North Carolina*)

**Poster and Video Contest** [10-4-2017\\_1330-Brokaw](#)

- Abby Brokaw (*American Lung Association of the Upper Midwest*)

**Soil Gas Mitigation Standard Update** [10-4-2017\\_1410-Kerber](#)

- Josh Kerber (*Minnesota Radon Program*)

**Southern Mitigation Challenges** [10-4-2017\\_1350-Boyea](#)

- Henri Boyea (*Radon Control Products*)

**Mitigation from the 4 Corner States** [10-4-2017\\_1430-Smit](#)

- Michael Smit (*MTS Inspections, LLC*)

**Jicarilla Tribe Radon Program Update** [10-4-2017\\_1510-Atole](#)

- Lyle Atole (*Jicarilla Apache Nation*)

**Radon Awareness in Tribal Communities** [10-4-2017\\_1530-Gutierrez](#)

- Jacquelyn Gutierrez (*Pueblo of Pojoaque Environment Department*)



## Speakers



**David Allard** is the Director of PA DEP's Bureau of Radiation Protection, and responsible for the: accelerator, x ray, environmental surveillance, nuclear safety, radiological emergency response, radioactive materials, decommissioning / site clean-up, low-level waste and radon programs within the Commonwealth. He is also the technical lead on oil & gas TENORM issues for DEP. Mr. Allard is the Governor's official liaison to the U.S. Nuclear Regulatory Commission, and the DEP's alternate Commissioner for the Appalachian States Low-level Radioactive Waste Compact Commission.

Mr. Allard received a Bachelor of Science degree in Environmental Sciences from SUNY Albany and a Master of Science degree in Radiological Sciences & Protection from U Mass - Lowell. He is certified by the American Board of Health Physics, a Fellow of the Health Physics Society (HPS) and, the Conference of Radiation Control Program Directors' (CRCPD) official liaison to the National Council on Radiation Protection and Measurement (NCRP) for over 10 years. He is also a member of the AAPM, ANS, NRRPT and SNM.

Prior to joining DEP in February 1999, he was a consultant to the U.S. Department of Energy on environmental and occupational radiation protection issues for eight years. Mr. Allard has been involved in the various aspects of governmental, industrial, reactor, medical and academic radiation protection for over 40 years. He has been in various leadership roles with the HPS and CRCPD, and is currently Chairperson of the CRCPD. He also serves as a member or advisor on several national radiation protection committees; has authored numerous professional papers and reports; and frequently lectures on a wide variety of radiation protection topics and concerns.



**Scott Arcand** is a Health Educator at the MN Department of Health Indoor Air Unit. Mr. Arcand has been with MDH since August of 2014 as the radon outreach coordinator working with builders and realtors throughout the state enrolling builders in the Radon Gold Standard Program and teaching continuing education classes to realtors.

Prior to working with MDH, he spent the previous 30 + years in the mortgage/financial services industry in various positions from Mortgage Loan Officer to SVP/regional manager of a national builder owned Mortgage Company. He is also a partner in Oneka Ridge Golf Course, est. in 1995 in Hugo, MN and currently the President. He has been on the City of Hugo, MN Planning Commission since 2009 and is currently the Vice Chair.



**Lyle Atole** is an Environmental Technician at the Jicarilla Environmental Protection Office.

## Speakers



**Lucas Bair** is a tribal member, and employee, of the Spokane Tribe of Indians. Lucas graduated from Eastern Washington University with a B.S. in Geology. Lucas has been working with the tribe since 2013. Lucas first job with the tribe was with Fire Management for a summer. He later on became Wild land Fire Fighter qualified, then moved to the Air Quality (AQ) Department as a Technician. Lucas is currently working as the Program Manager for AQ.



**Johna Boulafentis** has worked for the Nez Perce Tribe's Air Quality Program for twelve years. She provides air quality outreach and education to youth and adults; working with both tribal and non-tribal people on the Nez Perce Reservation. Her duties include compliance assistance related to outdoor burning, indoor air quality assessments and health-related studies. She's learned that all age groups love hands-on activities like making wind turbines with children and nontoxic cleaners with adults.



**Henry Boyea** has a background in remodeling and retail management, and a degree in Psychology, Henri has 20 Years experience in radon mitigation and measurement.

He is an AARST National Board Member, President of the SE AARST Chapter, and a NRPP Speaker's Bureau Member.



**Michelle Brewer** is an Environmental Programs Specialist in the Radiation Management Section at the Oklahoma Department of Environmental Quality. Mrs. Brewer has assisted with ODEQ's Radon program for 10 years. The Radiation Management Section also regulates radioactive materials and analytical/industrial and therapeutic X-ray machine use. Michelle is currently a member of the E-25 Committee on Radon.



**Abby Brokaw** is a graduate of the University of Illinois, receiving her Master's Degree in Environmental Planning & Management and a Bachelor's Degree in Natural Resources and Environmental Science. She is a Clean Air Director with the American Lung Association – Upper Midwest Region, focusing primarily on indoor air quality programs. Her previous work includes several years at the Illinois EPA. Abby maintains licenses as a Radon Measurement Technician and Radon Mitigation Technician in Illinois and manages radon projects and public hotlines in Iowa, Illinois and Indiana.

## Speakers



- **Nathaniel L. Burden, Jr.** is the Environmental Services/Training Director for Fidelity Inspection and Consulting Services. He was a physics major with studies in nuclear engineering at Carnegie-Mellon. He worked as a nuclear operator at the now decommissioned LWBR Shippingport Atomic Power Station in PA and the Beaver Valley Nuclear Power Station in PA. He served as the radiation safety officer and radiation decontamination foreman with advance decon protocols. Mr. Burden was a consultant and provider of radon testing and radon mitigation design with the DOD for American Army facilities in Garmisch-Partenkirchen and Augsburg, Germany. He provided radon testing for special facilities (General Patton Hotel, Army barracks, and secure underground facilities and served as a special consultant in collaboration with the Argonne National Laborites for the Sudbury Neutrino Observatory in Sudbury, Ontario, Canada for low-level fine radon mitigation with special oil filtration. He currently is the PA AARST President and a former EPA radon testing and mitigation instructor for regional radon training centers.



**Nikki Campbell** is a health educator for the Environmental Public Health Tracking Network at the Utah Department of Health. She is actively involved in radon outreach and education in the state of Utah and is an advocate for radon testing and mitigation.



**Tony Colgan** is a health physicist who is head of the Radiation Protection Unit at the International Atomic Energy Agency. Before joining the IAEA in 2009, he was deputy director of Ireland's Radiation Protection Institute. At IAEA, Tony is responsible for providing oversight for the development and implementation of radiation protection standards, including those relating to public exposure due to radon.



**Eleanor Divver** started working in the Radon world in 1993 when she was with the Salt Lake County Health Department. She then taught Public Health, Environmental Health and Healthy Lifestyles at the University of Utah for many years. Currently, she is working for the State Department of Environmental Quality as the Radon Project Coordinator. Eleanor loves to be working in the Radon Field again.



**Clark Eldredge** was the first hire into the Florida Radon Program in 1988. On his first day of work, he flew from Tallahassee, FL, to Louisville, KY, to take the EPA Reducing Radon in Structures Course. Since that time he has been involved with the certification of radon professionals, investigated and responded to unique and developing radon issues, consulted on difficult radon problems, provided training to industry and state personnel, participated in the development of radon measurement, mitigation and resistant construction protocols, codes, standards and guidance at the state and federal level. In September 2016, he became the Florida Radon Program Administrator Emeritus and now administers the Florida X-Ray Machine Registration Program.

## Speakers



**Hannah Fyfe** is an Environmental Programs Manager with the American Lung Association. She graduated with a Bachelor's of Science Degree in Biology from the University of Illinois at Springfield in 2014 and a Master's of Science Degree in Environmental Sciences from Southern Illinois University Edwardsville in 2016. Hannah's previous work experience includes an internship at the Illinois Environmental Protection Agency in the Bureau of Air. Hannah is a licensed Radon Measurement Technician in Illinois. Her contact information is [Hannah.Fyfe@lung.org](mailto:Hannah.Fyfe@lung.org)



**Jacquelyn Gutierrez** is an Environmental Specialist for the Pueblo of Pojoaque in New Mexico. She has been with Pojoaque for 3 years, and has been in the environmental field for 21 years. Over the years she has worked in various capacities including Solid Waste, Brown Fields, Water Quality, GIS, Air Monitoring, and outreach. Jacquelyn has worked to build tribal environmental capacity and seeks to endure that the communities she works with and for, maintain a balance between environmental protection, public health and safety.



**Corean Hamlin** is the Director of Education and Licensing for the North Carolina Real Estate Commission. She plans and directs the Commission's education, examination, and licensing programs and operations on a statewide basis.



**Aaron Johnson** has presented at national conferences for contractors, trades, architects, engineers, and code officials on topics ranging from energy and building code, to radon, to addressing indoor air quality in new and existing homes. Aaron has a background in third party verification of energy efficiency and indoor air quality programs, diagnosing comfort and health issues in homes, and home performance contracting. Aaron holds many credentials from Building Performance Institute, RESNET, and other organizations in energy efficiency and green building. He is a RESNET QAD and Rater Trainer, and a BPI QCI.



**Joshua Kerber** is an Environmental Research Scientist for the Minnesota Department of Health. He has worked in the indoor air quality and radon field since 2002 and the home construction industry prior to that time. He has a Master's Degree in Atmospheric Science and has worked and trained in two state radon programs: Minnesota and Ohio – Go Bucks! More recently Joshua has worked on the implementation of the Minnesota Radon Awareness Act and the Minnesota Radon Licensing Act. He assists Minnesota contractors with radon and vapor intrusion mitigation assistance, along with providing research, information, and outreach to Minnesota and national constituents. He serves on many national radon standard workgroups including the Conference of Radiation Control Program Director's E-25 committee on radon.

## Speakers



**Doug Kladder** is the Director of CERTI, and based upon 30 years of practical experience in the radon measurement and mitigation field, Mr. Kladder has developed a number of educational programs for radon professionals and supported many state outreach programs. He is the author of many radon publications including Protecting Your Home From Radon and recently appointed as Chairman of the National Radon

Proficiency Program's Policy Advisory Board. Contact info: 719-477-1714 [dkladder@certi.us](mailto:dkladder@certi.us)



**Jorge Laguna** is the Environmental Manager for the Florida Radon and Indoor Air Program. Mr. Laguna graduated with a B.A. in Biology from Central College in Iowa, and also has a M.S. from the University of California San Diego. Jorge has been working on various environmental issues for 25 years and has over 11 years of practical experience in the radon field; and has provided numerous presentations and educational programs to the general public, radon professionals, and other partners. He was appointed as a member of the E-25 radon committee about a year ago, and is usually consulted on regional and national radon issues.



**Laura Larsson** is an Associate Professor at Montana State University.



**Melinda Lewis** has worked for the Illinois Emergency Management Agency Radon Program since January of 2012. Prior to her fulltime position at IEMA, Melinda completed an internship with the Radon Program during her graduate work at University of Illinois-Springfield. She also spent two and a half years doing radon outreach and education working for the Environmental Programs section of the American Lung Association. At the 2017 Conference, Melinda will be discussing the impact of the Illinois Radon Awareness Act in relation to how the Illinois radon program works with the real estate industry to promote radon risk reduction, a decade after it went into effect.



**John-Ryan Lockman** is the Director of Energy Programs for the Walking Mountains Science Center in Vail, CO. Since 2010 he has implemented the local energy efficiency program which provides access to information, energy coaching and rebates/financing to local homeowners. After integrating Radon education and outreach into the program there has been a significant increase in awareness and radon mitigation projects. He is an industry leader in Colorado and is determined to create healthier and more efficient living environments through homeowner education.

## Speakers



**William Long** is the Director of the Center for Radon and Air Toxics in EPA's Indoor Environments Program. He has over 20 years of experience directing national and international environmental programs to improve air quality and save lives at the US EPA.



**Kyle P. Messier** is the Kravis Postdoctoral Fellow with the Environmental Defense Fund and The University of Texas at Austin. He received a BS in Environmental Studies from the University of North Carolina at Asheville, and an MS and PhD in Environmental Science and Engineering from the University of North Carolina at Chapel Hill. His expertise is in spatial statistics, geostatistical modeling, and environmental epidemiology.



**Michele Monti** is an epidemiologist for the CDC National Center for Environmental Health, Environmental Health Tracking Branch with responsibilities for national surveillance of environmental contaminants associated with chronic diseases, especially drinking water contaminants, pesticides and radon. Prior to joining CDC in 2009, she worked for the Virginia Department of Health as the Director of the Division of Environmental Epidemiology, covering zoonotic and vector borne infectious diseases, toxic substances and waterborne hazards. She has a Master of Public Health (MPH) degree from Virginia Commonwealth University and a Master of Science in Environmental Sciences from the University of Virginia.



**David Saunders** works for the National Analytical Radiation Environmental Laboratory, U.S. Environment Protection Agency in Montgomery, Alabama.



**Michael Smit** is the owner of a full service radon mitigation and testing company in central and western New Mexico. He has a BS and MBA with a background in house construction and inspection. He is a certified professional in Radon Mitigation and Testing. He also is a certified professional in Radon Resistant new Construction. Michael is also certified by the State of New Mexico as a termite inspector.

# Attendees

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