

Instructor Resume

Douglas L. Kladder

Lead Technical Advisor, **Center for Environmental Research and Technology**
President, Colorado Vintage Companies, Inc.

Mr. Kladder holds a Chemical Engineering degree from the University of Michigan, and has been intimately involved with the development of radon measurement and mitigation technology since 1984.

Mr. Kladder's extensive experience in the radon industry includes a balance of public and private sector perspectives that allows him to provide students with not only the why's of radon policies and technology but also the how-to aspects. These experiences over the last 30 years have included:

- Chairman of the NRPP Policy Advisory Board
- Director Center for Environmental Research and Technology
- Managed creation of NEHA's National Radon Proficiency Program, 1998.
- Lead Instructor, Associate Director, Western Regional Radon Training Center
- Author of the initial US EPA Radon Mitigation Standards, 1991
- Contributor to many radon texts and curriculum, Reducing Radon in Structures, Building Radon Out, US EPA Technical Guidance and several curriculums used nationwide for entry-level and continuing education radon courses.
- Author of the U.S. and Canadian versions of the book, Protecting Your Home From in Canada
- Author of the "Radon Corner" within the Indoor Environment Connection
- Member of the Policy Advisory Board for the National Radon Proficiency Program
- Assistance with radon public outreach programs for several State Radon Programs, including Colorado, Utah, New Mexico, Wyoming, California, Guam, Michigan, Connecticut, North Dakota, South Dakota and Nevada under the U.S. EPA SIRG program

Radon Credentials:

Credential	ID #	Expiration
Residential Mitigation Provider	NRPP ID 100005RMT	1/31/2025
Residential Measurement Provider	NRPP ID 101271RT	1/31/2025

Curriculum Development Research Experience and Radon Related Project Management:

<i>Primary Author for Development of Technical Guidance for Assessing and Addressing Radon in Colorado on behalf of State of Colorado</i>	2016-Present
<i>Subject Matter Expert Radon Survey – US Naval Support Activity-Bethesda</i>	2016-Present
<i>Development and Management of Radon Control System Installation in New Homes for National Builder in all Zone 1 homes nationwide</i>	2010 - Present
<i>Canadian Radon and Radon Decay Product Measurement and Mitigation Course</i>	2016
This course provides the initial educational requirement for individuals desiring to be certified for professional radon services in Canada	
<i>Advanced Radon Measurements for Multi-Family and Other Large Buildings</i>	2016
Prerequisite course for radon professionals desiring advanced measurement credentials	
<i>Conducting Radon Surveys in Schools and Large Buildings</i>	2011
This course provides an in-depth discussion on conducting surveys in schools and large buildings and provides resources and tools in order to conduct surveys.	
<i>Design and Installation of Rn/Soil Gas Collection in New Buildings</i>	2010
An in-depth course for radon professionals dealing with aspects of designing and installing radon mitigation systems and soil gas collection systems in new buildings -	
<i>Lead Instructor for EPA Funded Radon Resistant Construction Seminars</i>	2005-2014
<i>The Basis for Promoting Radon Reduction in Your Community</i>	2010
This video-based program provides a comprehensive review of the "Why's" and "How-To's" of radon control techniques in new and existing homes.	
<i>Health Perspectives for Promoting RRNC</i>	2010
Video program of highlights of presentations given at the EPA Region 8 Stakeholders Meeting concerning the promotion of RRNC in communities.	
<i>Radon Practices: An Industry Discussion to Radon Control</i>	2010
An industry discussion of current practices and alternatives to the installation of radon control techniques in building construction. Recorded in conjunction with EPA Region 8 Stakeholder's Meeting.	
<i>Radon Measurement & Mitigation in Tropical Climates & Karst Conditions</i>	2009
This course deals with pressure driven entry of radon due to environmental factors found in structures constructed on karst or limestone formations as well as the effects very tight buildings within tropical regions.	

<i>Radon Entry & Measurements in Tropical Climates & Karst Conditions</i>	2009
This course deals with pressure driven entry of radon due to environmental factors found in structures constructed on karst or limestone formations as well as the effects of very tight buildings within tropical regions.	
<i>Radon Control Methods in New and Existing Structures</i>	2007
A video-based program developed in concert with the Colorado Chapter of the International Code Council.	
<i>Radon from a Physician's Perspective</i>	2007
An in-depth review of the health effects of radon from a physician's perspective. This audio-based program was a collaborative effort with the Colorado Springs Osteopathic Association, the Public Health Service and the University of Iowa	
<i>Development of Radon Proficiency Program in Guam</i>	2007
Development of a Guam specific curriculum for training radon measurement and mitigation professionals on the Island of Guam in cooperation with Guam EPA and Guam Community College	
<i>Variability of Radon Measurements in Schools</i>	2007
A Comparison of short and long-term measurements conducted in the early 1990 to long-term measurements conducted in same locations 15 years later. Presented at the 2007 NEHA Annual Education Conference with Chrystine Kelley-CDPHE.	
<i>The Use of Air Cleaning Systems to Reduce Radon Related Health Risks</i>	2007
An investigation into methods to reduce radon risk by the use of media air filters that serve to reduce the progeny of radon as well as reduce other indoor air quality concerns.	
<i>Radon Diagnostics-Schweinfurt Germany</i>	2007
Design and development of innovative radon mitigation approaches for pre-WWII military buildings now under the jurisdiction of the U.S. Army	
<i>Establishment of the NEHA-CERT Distance based Educational System</i>	2005
An extensive collection of video-based programs containing over 200 hours of programming for environmental health professionals	
<i>Radon Mitigation Technology</i>	2005
An innovative distance-based course coupled with a field mentoring program for individuals seeking certification as radon mitigation contractors by the NEHA-NRPP.	
<i>Radon and Radon Decay Product Measurement Course</i>	2005
An innovative distance based, entry-level course for individuals seeking certification by the NEHA-NRPP. This course is also approved for continuing education credits by NEHA-NRPP.	

<p><i>Radon Train-The-Speaker</i></p> <p>A 16-credit hour course for radon professionals wanting the technical and presentation skills for delivering public presentations on radon. A combination distance based and classroom course.</p>	2004-Present
<p><i>Use of Unitized Active Subslab Depressurization to Mitigate Groundwater-Derived Contaminants in Indoor Air</i></p> <p>Mr. Kladder and Mr. William Alexander co-presented the results of the successful application of unitized active soil depressurization systems to mitigate indoor air quality concerns associated with the volatilization of VOC's from groundwater.</p>	2002
<p><i>Building Radon Out US EPA/402-K-01-002</i></p> <p>Mr. Kladder was a major contributor in the US EPA's manual Building Radon Out which provides a concise step-by-step guide for builders and designers for installing radon control systems during the construction of a new home.</p>	2001
<p><i>Radon Measurement and Mitigation Approaches for the US Postal Service</i></p> <p>Mr. Kladder was actively involved through the Western Regional Radon Training Center in assisting the U.S. Postal Service in organizing a nationwide radon measurement survey and response plan for reducing radon concentrations when identified.</p>	1997
<p><i>EPA/NEHA Radon Resistant New Construction Workshops</i></p> <p>Mr. Kladder is one of the lead instructors for workshops provided to environmental health professionals as sponsored by the U.S. EPA and the National Environmental Health Association and U.S. EPA, hosted each year in Washington DC since 1997</p>	1997
<p><i>Military Bases on Okinawa</i></p> <p>Mr. Kladder has been instrumental in assisting private firms and the US Air Force and US Marines in conducting radon measurement surveys and developing innovative approaches for reducing radon in residential and administrative style buildings</p>	1995-
<p><i>Radon Mitigation and Weatherization</i></p> <p>Mr. Kladder has developed and implemented a pilot program for training local weatherization agencies to incorporate radon testing and mitigation as part of the services that are offered to their clients. This program has resulted in several low income and disadvantaged families to receive the benefits of radon reduction at affordable costs.</p>	1995
<p><i>Proponent for the adoption of Radon Control Techniques in Uniform Building Code for New Home Construction</i></p> <p>Mr. Kladder represented the US EPA's efforts for the adoption of meaningful building codes to the International Conference of Building Officials for control of radon in new construction.</p>	1996

Community Enabling Projects 1993

Since the book Protecting Your Home from Radon was published in 1993, Mr. Kladder and his associates have delivered numerous self-help courses each year on behalf of the National Association of Counties and the Departments of Health for Colorado, Wyoming, Montana, Michigan, and California. This program has also been expanded to provide meaningful instruction to Indian Nations of the Southwest.

Radon Measurement Operators and Radon Technology for Mitigators 1994

Updated these courses on behalf of the US EPA Radon Training Center Network. This included the development of a computer aided delivery system and innovative note taking aids for students, for this intensive 5-day program.

Radon and the Real Estate Professional 1994

Developed, in conjunction with the Environmental Protection Agency and the Environmental Law Institute, this course has been delivered in Colorado and Wyoming for continuing education credits for real estate professionals.

Radon in New Home Construction 1994

Development and delivery of 4-hour course for the installation of radon reduction systems during construction. This program has become the basis for builder instruction throughout the western U. S.

Radon Detector Placement & Retrieval Workshops in Arizona 1994

A series of workshops were conducted on behalf of the Inter-Tribal Council of Arizona, Inc. and WRRTC, to train individuals to conduct a survey of schools and large buildings on tribal lands.

Protecting Your Home from Radon 1993

A Do-It-Yourself manual for homeowners inclined to reduce radon in their own homes. This book has been used by thousands of homeowners to install quality radon systems. Initially conceived for homeowners in remote areas, it has become a useful tool for educating tribal maintenance personnel and weatherization groups. Available in most public libraries around the country, it continues to be sold throughout the United States.

Radon Response in Colorado Schools 1992

Developed and delivered a radon education program for school personnel for the measurement and remediation of radon in schools.

US EPA Radon Proficiency Program Exam 1989-1994

Served as part of U.S. EPA's panel in developing functional skill areas for Radon Contractors Proficiency Program exam, as well as, writing and reviewing questions for the exam.

Reducing Radon in Structures 1992

Coordinated a major revision of U.S. EPA's manual which is utilized by the National Training Center Network for its radon professional courses.

Radon Measurement Operators and Radon Technology for Mitigators 1989

Mr. Kladder is the Lead Instructor for the delivery of contractor training programs that qualify people to be listed as proficient radon measurement and radon mitigation professionals with the NEHA NRPP and various state certification programs.

U.S. EPA's Radon Mitigation Guidelines 1989

Wrote the U.S. EPA's initial guidance document for radon contractors and assisted with the development of future revisions.

Research and Publications:

Western Regional Radon Training Center, Kladder, D.L. Burkhart, J.F., Wyoming Large Building Survey, A step-by-step manual for measuring and confirming elevated concentrations of in large buildings, 1997.

Western Regional Radon Training Center, Kladder, D.L. Radon, An Environmental Concern With an Easy Solution, A guide for installing affordable radon control systems in new homes, 1998

Kladder, D.L., Burkhart Dr. J.F., Thorburn, M. S., Cruz, Peter Q., An Investigation Of Factors Affecting, The Entry Of Radon Into Structures On The Island of Guam, Natural Radiation Environment (NRE-VI) Symposium Proceedings, 1995.

Kladder D.L., Burkhart, Dr. J.F., Jelinek, S.R., Protecting Your Home From Radon - A Step By Step Manual For Radon Reduction CVC, 1993.

Kladder, D.L., Burkhart Dr. J.F., Thorburn, M. S., Investigation into Factors Affecting the Entry of Radon Into Structures On Guam, Guam EPA, 1994.

Burkhart Dr. J.F., Kladder, D.L., Radon Distribution On The Island of Guam and Correlations to Surficial Geology and Deposition Models, Int'l Radon Symposium Proceedings, 1993.

Paben, G., Drennen A., Kladder D.L., Use of Sealed Membrane Systems in Conjunction with Passively Vented Crawl Space Homes in Cold Climates, Int'l Radon Symposium, 1993.

Mitchel, R., Kladder, D.L., Risk Communication Techniques for Dealing with School Officials Facing Radon Reduction Repairs. A Case Study of Two Different Approaches Utilized in New Mexico Schools, Int'l Radon Symposium, 1993.

Kladder D.L., Burkhart,Dr. J.F., Jelinek, S.R., A Comparison of Indoor Radon Between Preconstruction and Post Construction Mitigated Single Family Dwellings, Int'l Radon Symposium Proceedings, 1991.

Kladder, D.L., Burkhart, Dr. J.F., Jelinek, S.R., A Study of Passive Radon Reduction Techniques For Single Family Residential Structures. AARST Radon Technical Exchange Proceedings, 1991.