The Radon Measurement and Mitigation in Karst Areas Training is an advanced course offered by the Southern Regional Radon Training Center (SRRTC). Jack Hughes will conduct the training and the training will offer 8 hours of continuing education credits for the radon proficiency programs.

This training features case studies from the Livingston, Tennessee House Investigation Training project in which measurement and mitigation strategies were developed for situations influenced by Karst geology and other geographically similar areas.

BACKGROUND

In December 1995 some homes in Livingston, Tennessee, with installed mitigation systems, were found to have elevated indoor radon levels. The Tennessee Radon Program through the Tennessee Department of Environment and Conservation (TDEC), SRRTC and EPA Region 4 began an investigation to determine the causes of these apparent failures. It was found that the region’s Karst geology, which exhibits significant fissures and voids in the underlying limestone formations, plays a major role in the radon behavior observed in these houses, such as large and rapid fluctuations in indoor and subsurface radon concentrations.

As a result of these effects, standard measurement, diagnostic and mitigation procedures may be inadequate to quantify the magnitude and temporal variation of radon concentrations to design effective radon control systems in areas where Karst geology plays an important role.

This investigation then focused on formulating modified strategies for reliable radon measurement and system design and evaluation that are applicable in this and other geographically similar areas. The diagnostic and design methods developed permit investigators to specify system mechanical performance parameters and then to predict and simulate an installed system’s actual mechanical performance for those more demanding situations such as difficult-to-mitigate houses and large buildings.

COURSE CONTENT

This specialized training course builds upon the previous courses that emphasized work in houses and cover these topics:

- History and overview of Karst issues
- Summary of previous investigations in Karst areas
- Radon behavior and measurements
- Summary of Livingston Project investigation and findings
- Diagnostics and mitigation procedures
- Classroom discussions with exchange of experiences, methods and techniques

Contact Jan Carrington, SRRTC at Auburn University (800) 626-2703 or Fax (334) 844-5715 or E-mail: janc@eng.auburn.edu for more information or to pre-register for the training. Registration and payments must be sent to Auburn University.

REGISTRATION FORM

RADON MEASUREMENT AND MITIGATION IN KARST AREAS

Registration Fee - $125

First Name MI Last Name

Company

Address

City State ZipCode+4

Business Phone No Fax No E-Mail

( ) Check enclosed (made payable to Auburn University) $125

Credit Card ( ) Visa ( ) MasterCard

CC Number Exp Date

Complete and return registration and payment to:

Jan Carrington
Southern Regional Radon Training Center
217 Ramsey Hall
Auburn University, AL 36849-5376
(800) 626-2703 or Fax (334) 844-5715
E-mail: janc@eng.auburn.edu or website www.bece.auburn.edu/srrtc