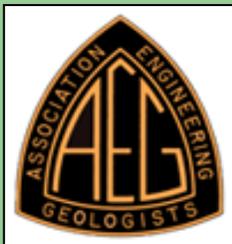




HAGS/AEG – Meeting Announcement

Thursday, January 11, 2018 6:30 p.m.



Evaluation of Radon Occurrence in Groundwater from 16 Geologic Units in Pennsylvania, 1986–2015, with Application to Potential Radon Exposure from Groundwater and Indoor Air

Presented by: Eliza Gross, Physical Scientist – U.S. Geological Survey

Abstract: The EPA action level for air radon exposure is 4 picocuries per liter (pCi/L). Indoor air radon concentrations have been reported to increase by about 1 pCi/L for each 10,000 pCi/L in groundwater used for domestic supply. Radon concentrations in 16 Pennsylvania geologic units with 25 or more samples were evaluated to identify the potential contribution of radon from groundwater to indoor air. Radon concentrations in 1,041 groundwater samples collected in 16 geologic units met the criteria for evaluation. Median radon concentrations in groundwater samples (155- 4,300 pCi/L) and indoor air samples (2.1-6.4 pCi/L) were used to classify radon exposure potential. Geologic unit exposure potential classifications were mapped with public water-supply service areas to identify exposure potential of populations using domestic wells. Resulting maps are meant to promote public awareness of the potential contribution of radon from groundwater to indoor air and to inform Pennsylvania's citizens of associated health risks.

Speaker Bio: **Eliza Gross** is a Physical Scientist with the U.S. Geological Survey Pennsylvania Water Science Center in New Cumberland, PA and has led groundwater-water quality projects involving geospatial and statistical analysis of groundwater-quality data and describing these data in relation to human health standards.

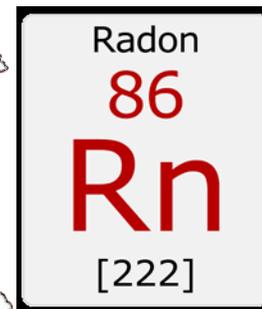
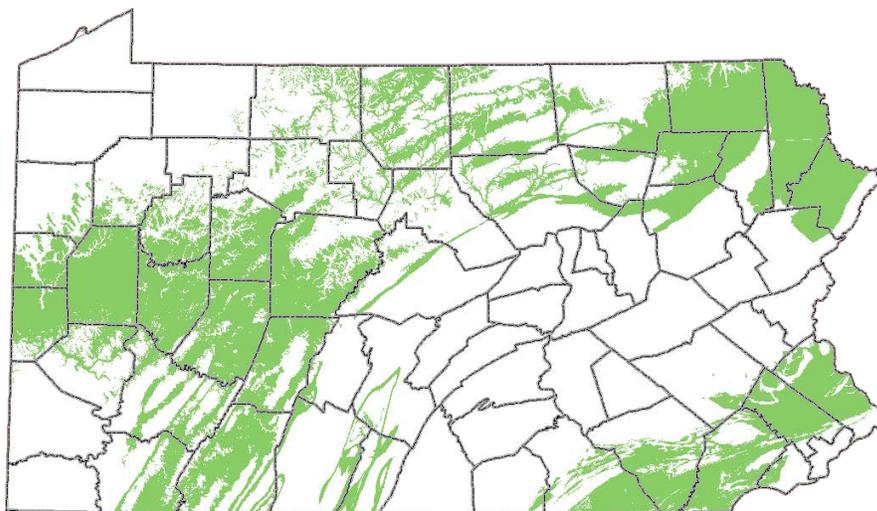


Image above from carbomer.com

EXPLANATION

 16 geologic units included in the study

Meeting Location:

AEG Offices
441 Friendship Road
Harrisburg, PA
(not far from Bass Pro Shops)

Dinner at 4:45 – 6:15
Fiesta Mexico
3957 Paxton Street
(between Ruby Tuesday
and Nissan dealership)

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www.aegweb.org/

RSVP for dinner & meeting by no later than noon Tuesday, January 9, 2018.

RSVP Amy Randolph at secretaryhags@gmail.com or 717.395.3181.

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