

**AEG's 2020 Virtual Annual Meeting**  
September 16-18, 2020

**TECHNICAL SESSION #2: ENVIRONMENTAL SYMPOSIUM 2020:**  
**RADON OCCURRENCE AND REMEDIATION**

**Presenter Biographies**

**Scott Burns - Radon – The Invisible Killer – Geologic Characteristics That Lead to High Radon Production**



Scott is a Professor Emeritus of Geology and Past-Chair of the Dept. of Geology at Portland State University where he just finished his 30th year of teaching. His BS and MS degrees are from Stanford University in California, plus a Ph.D. in geology from the University of Colorado, Boulder. The Burns family lives in Tualatin, Oregon.

He was national president of the Association of Engineering Geologists from 2002-2003. He was national chair of the engineering geology division of the Geological Society of America (GSA) in 1999-2000. He is also the immediate past-president of the International Association of Engineering Geologists.

Scott is known for actively helping local TV and radio stations and newspapers bring important geological news to the public. For the past 49 years he has also made a hobby of studying wine and terroir – the relationship between wine, soils, geology and climate.

He has authored over 100 publications and has had over 25 research grants. Scott specializes in environmental and engineering geology, geomorphology, soils, and Quaternary geology, including landslides slope stability, earthquake hazard mapping and radon generation from soils.

**David Innes - New Technologies for Testing and Mitigating Radon in Air, Plus a Radon-101 Review of Health Effects**



David Innes is a bilingual senior sales executive with over 25 years' experience building international businesses from the ground. He has successfully established and managed sales and customer service networks with a focus on profitability, resulting in rapid sales growth for new technology products in North America.

David has spent most of his career in construction and construction related industries. He is Director of Sales for Radon Environmental Management Corp. and a C-NRPP-certified professional in both the measurement and mitigation of radon. He provides the continuing education training for the CHBA-BC and BC Housing on an ongoing basis along with training for several other private organizations.

He spent three years on the Vancouver Curling Club Board of Directors and one year as Vice President of the Club, a non-profit. He was Chair of the Board at IDS Group Inc., a privately held company, for twelve years. He also held a seat on the Boards of privately held Laurentian Retailers Inc. for ten years and Coastal Retailers Inc. for ten years.

David is currently the Vice President of the Canadian Association of Radon Scientists and Technicians (CARST). He also holds a seat on the American Association of Radon Scientists and Technicians (AARST) committee which is producing a new guideline for testing for Radon in water.

### **Zoltan Szabo - Radon-222 Occurrence in Groundwater is Highest in Appalachian Piedmont, Eastern USA, and Correlates to Lead-210 Occurrence**



Mr. Szabo is a Research Hydrologist/Geochemist and a Principal Investigator (PI) at the U.S. Geological Survey (USGS). He has been studying the transport of the naturally occurring radionuclide contaminant constituents, and the commonly associated more soluble trace elements (arsenic (As) and others) focusing on geochemical co-occurrence, and speciation associated with redox transitions. He has MSc in geology/geochemistry (Ohio State University, 1984) with specific training in isotope geochemistry, mass spectrometry, gamma spectroscopy, and geochemical modeling. He has conducted research on occurrence and transport of the radionuclide constituents in 20 major aquifers nationwide. The research has provided definition of Radium isotope ratios in groundwater, Polonium-210 and Lead-210 occurrence in groundwater, an improved understanding of Uranium and Arsenic co-occurrence and redox speciation.

He led the effort to provide a National Radium Assessment (USGS and USEPA, multi-agency funding) that showed the geochemical environments of radium occurrence in major US aquifers. He provided key data to the USEPA Radionuclide Rule Revision Team setting radionuclide standards for drinking water (2000), and to the NJ Dept. Environmental Protection when revising their standards (2004). He has a record of service providing research and relevant information for critical external advisory committees, science advisory boards, Federal and State Agencies, and for drinking water related NGOs, including many Water Research Foundation (WRF) Science Advisory Committees characterizing radionuclide analytical techniques and occurrence.

Current major assignments include National Institute Environmental Health & Safety (NIEHS) External Advisory Committee on Health Effects for Arsenic and Lead Exposure and Committee on Protocols for Measurement of Radon in Water, and American Association of Radon Scientists and Technologists (AARST) Consortium on National Radon Standards.

### **John Noyes - How Training and Education in Radon Mitigation Has Provided Invaluable Insights for Vapor Mitigation: Supported by Three Case Studies**



John Noyes is a licensed professional Geologist in Illinois and is Owner/President of CABENO Environmental Field Services, LLC (CABENO) located in the Chicago, IL area. John earned his undergraduate B.S. in Geology from the University of Illinois at Chicago in 1992 and earned a M.S. degree in Hydrogeology from Northeastern Illinois University. Graduate research was on Enhanced DNAPL Removal Using Electrokinetics. John worked in the environmental consulting industry from 1992 thru 2002. In 2002 John opened CABENO. CABENO is a turnkey environmental field service contractor providing services in: landfill gas system O&M, drilling services, monitoring well installation & maintenance, groundwater sampling services, radon & vapor mitigation services, insitu soil and groundwater remediation services, emergency response for fuel and oil spill cleanup, and a distributor for several remediation products.

### **Jennifer Athey - Alaska Radon Testing and Occurrence: Now That We Know Better, We Are Working To Do Better**



Jen Athey is a geologist and Geoscience Information Manager for Alaska's geological survey, a science-focused agency within the Department of Natural Resources. She has 27 years of experience in project management, databases, GIS, geologic mapping, and mineral exploration. She has recently started an environmental geology program at the survey, looking at statewide levels of radon, arsenic in groundwater, and naturally occurring asbestos. She is currently building a radon database for Alaska and online tools to help the public visualize where radon occurs, to increase rates of indoor air testing, radon-proof construction, and mitigation.