

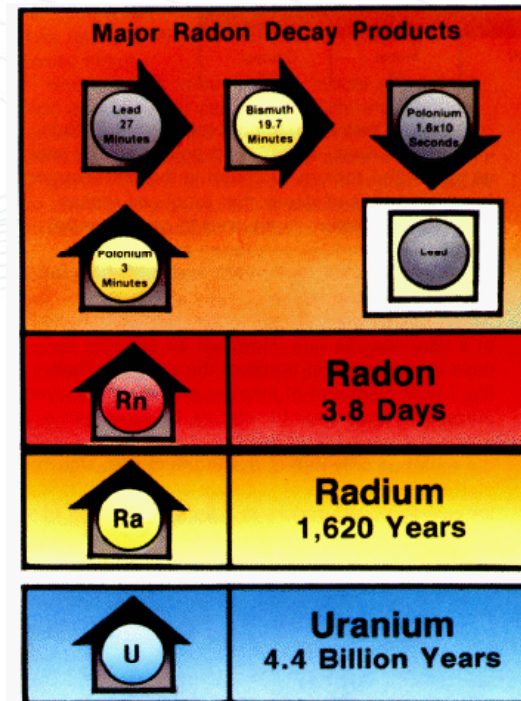
# Radon in our Homes: What Realtors Should Know



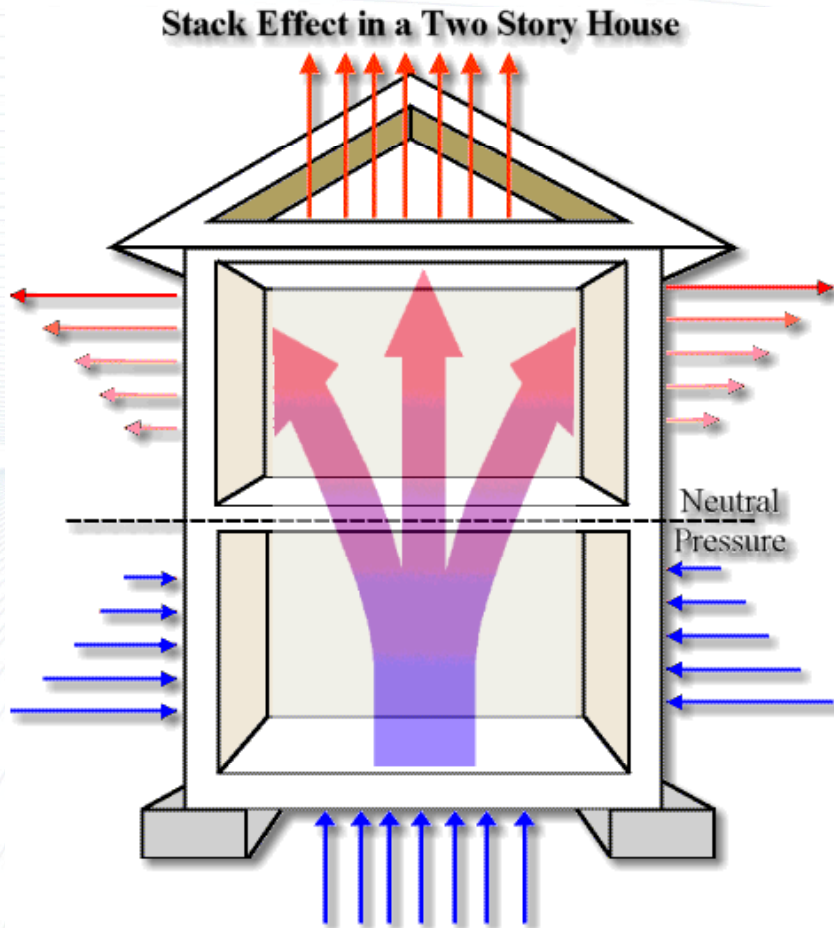
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# What is Radon?

- An inert gas not detected by human senses
- Naturally occurring
- Radioactive (decays spontaneously from Uranium to Radium to Radon)
- Majority of health risk attributed to radon decay products
- Leading cause of lung cancer in non-smokers
- Second leading cause of lung cancer in smokers

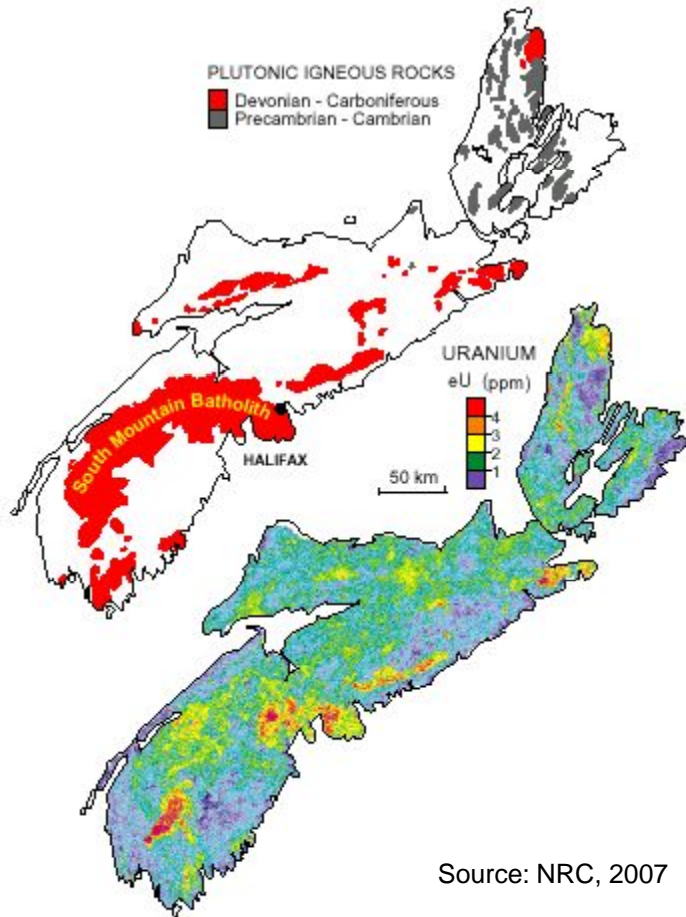


# What is Radon? (continued...)



- Average annual outdoor concentration = approx.  $10 \text{ Bq/m}^3$  (CMHC, 2007)
- Average annual indoor concentration in homes = approx.  $45 \text{ Bq/m}^3$  (CMHC, 2007) - In NS, average outdoor concentration = approx.  $107 \text{ Bq/m}^3$  (NRC, 2007)
- Indoor concentrations typically at their highest during the winter heating season due to the Stack Effect
- At Health Canada's action level of  $200 \text{ Bq/m}^3$ , 347 lives can be saved each year (Cornett, 2007)

# Why test for Radon?



- Although Radon concentrations are attributed to the decay of Uranium, bedrock geology alone can not predict indoor air Radon concentrations
- Other contributing factors include building design, seasonal variations, occupant lifestyle
- They only way to know is to test

# Who Can Complete the Testing?

- Residential Radon Measurement Providers are listed on the NEHA-NRPP website: [http://www.neha-nrpp.org/Canada\\_Measurement.html](http://www.neha-nrpp.org/Canada_Measurement.html)
- NRPP certified Measurement and Mitigation Providers are internationally certified and follow professional standards of practice



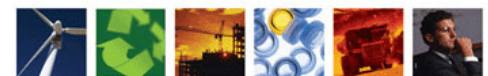
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# Radon Measurements During Real Estate Transactions

- Long term test (90-365 days) are recommended, however, during real estate transactions, short term tests (2-90 days) may be required
- Three options are available for short term tests during real estate transactions:
  - Two tests simultaneously
  - Two tests consecutively
  - One test using a real-time monitor
- Short term tests must be completed under closed building conditions and should be followed up with a long term test

# Radon Mitigation

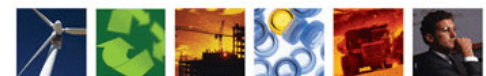
- If test results indicate concentrations greater than Health Canada's action level of 200 Bq/m<sup>3</sup>, then mitigation is required
- Most common residential Radon mitigation technique is Active Soil Depressurization (ASD)
- Contact a certified Residential Radon Mitigation Provider  
[http://www.neha-nrpp.org/Canada\\_Mitigation.html](http://www.neha-nrpp.org/Canada_Mitigation.html)



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# Resources

- Guide for Radon Measurements in Residential Dwellings (Homes), Health Canada
- Guide for Radon Measurement in Public Buildings (Schools, Hospitals, Care Facilities, Detention Centers), Health Canada
- Radon: A Guide for Canadian Homeowners, CMHC and Health Canada
- A Citizen's Guide to Radon - The Guide to Protecting Yourself and Your Family from Radon, US EPA
- Indoor Radon and Radon Decay Product Measurement Device Protocols, US EPA
- Protocols for Radon and Radon Decay Product Measurement Devices, US EPA
- Radon Mitigation Standards, US EPA



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