

Nuclear Chemistry

- We hear about nuclear power and the results of the atom only when there is a Tragic accident

- Three Mile Island
- Chernobyl
- Fukushima

It is important to have a understanding of radiation and there effects

- Background Radiation
 - We are all exposed to radiation
 - Three-fourths of all exposure to radiation comes from **background radiation**.
 - Most of the remaining one-fourth comes from medical irradiation such as X-rays.
- Average origin of radiation we receive
- We receive about 0.3 rem of radiation each year
 - 55 % from radon in indoor and outdoor air
 - 8 % from cosmic rays from outer space
 - 8 % from rocks and soil
 - 11 % from natural radioactive isotopes (^{14}C) of elements that are present in our own bodies
 - 18 % from anthropogenic sources (mainly medical x- rays)
 - Contribution from nuclear power plants is negligible (on average)

Radon

- Guidelines for radon levels in indoor air:
 - Health Canada set the maximum to 200 Bq/m^3
 - U.S. EPA set the maximum to $4 \text{ pCi/L} = 148 \text{ Bq/m}^3$
- Radiation Damage to Cells
 - Radiation is capable of removing electrons from cells forming ions, hence the term **ionizing radiation**.
 - Molecules can also splinter into neutral fragments called **free radicals**. Free radicals can disrupt cellular processes.

Nuclear Chemistry Chem Guide

Karin Nielsen-Saines



Nuclear Chemistry Chem Guide:

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