

Problems covered in the video series:

Videos (9) – (10)

The 1986 nuclear accident at Chernobyl in the Ukraine spread radioactive fallout over Eastern Europe and Scandinavia. Iodine-131 was of great concern, since it's absorbed by the thyroid gland and can cause thyroid cancer. Following the accident, I-131 levels in Romanian milk rose to 2900 Bq per liter. How long did Romanians have to wait before I-131 levels were below their government's 185-Bq/L safety standard?

Video (10)

Archaeologists unearth charcoal from an ancient campfire and find its carbon-14 activity per unit mass to be 7.4% of the activity measured in living wood. Find the charcoal's age.