

Type: **oral presentation**

Tuesday, 20 September 2011 09:25 (15 minutes)

Concentration of ^{234}U and ^{238}U in the examined waters varied from 0.75 mBq/dm³ to 16.8 mBq/dm³ and from 0.64 mBq/dm³ to 45.5 mBq/dm³ respectively. The highest uranium concentrations were measured in the thermal groundwater from Mszczonow and Cieplce, while the lowest were observed in ground water from Plock which are got out from Cretaceous geological formation. The $^{234}\text{U}/^{238}\text{U}$ activity ratio varied from 0.370 (Cieplce) to 1.205 (Plock –Tertiary geological formation). It confirms that the uranium isotopic ratio can be useful indicator for determination of surface water infiltration input into the underground water reservoirs.

Track Classification: Radioecology and Geochemistry