WATER VAPOUR, ATMOSPHERIC ELECTRICITY AND TRANSFER OF RADON IN NEAR-SURFACE LAYERS OF THE SOIL AND THE ATMOSPHERE

V.N. Shuleikin

Oil and Gas Research Institute, Russian Academy of Sciences, Moscow, Russia

Abstract. Water vapour is able to transport the radon in the near-surface atmosphere. The small thickness of the ground layer, from which the process of evaporation occurs, leads to a very little change of ionizer concentration. Injection of water vapour in the air increases the density of neutral condensation nuclei and atmospheric electric field. Evaporation clears the pore space that facilitates the discharge of radon in the atmosphere and the enhancement of polar air conductivity.

Keywords: water vapour, radon, atmospheric electric field, polar air conductivity.