

KONCENTRÁCIE RADÓNU V PÔDNOM VZDUCHU

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ABSTRACT

Vičanová M., Nikodemová D., Huťková A. & Koreňová Z.: **Intercomparison of soil radon concentration measurements**

In October last year the first intercomparison of measurements of the soil radon concentrations between various laboratories in Slovakia was realised. The organisation of this intercomparison was conducted by the Slovak Legal Metrology in Banská Bystrica together with the Slovak National Accreditation Service in Bratislava (SNAS). The scientific guarantee of the exercise was the State metrological Centre for radon quantities, which is working at the Research base of Slovak Medical University in Bratislava.

The main objective of the intercomparison was to verify the correctness of the methods for the soil radon measurements of the authorised laboratories for radon volume activities in soil air. The intercomparison (signed as SLM ILC 3/03) was performed as a "circular" metrology comparison, in accordance with a methodical directive MSA 0117-98, published by SNAS.

Six laboratories were participating on the intercomparison and there have been two stages of the work: one in the radon chamber of the State metrological Centre and the second in the real field