

Design of a national indoor radon survey in South Africa: Radon measurements in homes and schools around Western Cape.

Radon is a radioactive gas that is present in public buildings and homes. It comes from the natural decay of uranium in soil, rock, and water and gets into the air we breathe. Radon gas is believed to cause thousands of preventable lung cancer deaths every year. In 2018 the Centre for Nuclear Safety and Security (CNSS) initiated a project to design a national indoor radon survey in South Africa. One way of developing a national radon survey is to use potential maps of radon to identify hotspots areas. Indoor radon measurements have been performed in different schools and homes, and this has been achieved through school outreach. Electrets ion chambers were deployed for a week in homes and schools in different locations of selected areas. Here we report the findings of the indoor radon measurements conducted across Cape Flats in Western Cape.

Primary author: MAHESO, Abbey Matimba (University of Stellenbosch)

Co-author: NEWMAN, Richard (Stellenbosch University)

Presenter: MAHESO, Abbey Matimba (University of Stellenbosch)

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