

Fundamental

Radioactivity **Méthodology**
 Métrology

**Elaboration, optimisation
and modification of
measuring methods**

**Preparation of secondary
calibration sources and
standard solutions**

**Participation in the
formation of 3rd cycle
nuclear physicists and
radiochemists**

**Quality assurance
application**

**Preparation for
introduction for
ISO 17025**

Applied

Earth Sciences

Tracing

Environmental Protection

applications in

Structural

Air, water and soil

Geophysics

**Transport in
porous media**

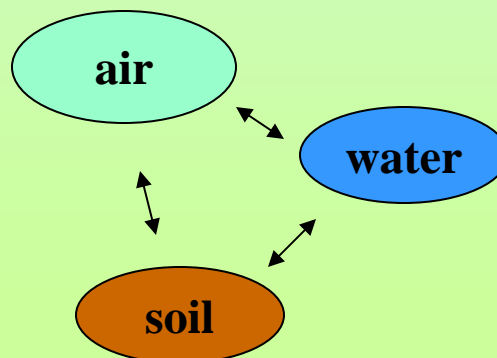
Risk management

Geology

Hydrogeology

Atmosphere

**Environmental
dose impact**



Quality Assurance

Sections

Nuclear Physics instrumentation

Radiochemical Laboratory

Hydrological instrumentation

Diffusion experimentation

Activities, projects and collaboration

National:

- **Radioéléments dans l'environnement: Méthodologies de mesure et applications en Sciences de la Terre, detection of underground structures using radioelements and gravity**
- **FNR research projects (with partners): CYCLEAU: Study of the different components of the water cycle in the Atert basin. GEAUSOUT – Systematic study of the underground water in Luxembourg. CHEMRISK risk assessment for groundwater pollution.**

International:

Formal collaboration with

- **Institut Supérieur Industriel Bruxelles (ISIB) - Geologisches Institut, Universität Bonn, Center of Hydrogeology - University of Neuchatel CH - Institute for Nuclear Research and Nuclear Energy of the Bulgarian Academy of Science (INRNE BAS) - Université de Technologie de Belfort-Montbéliard (UTBM), Département Génie Mécanique et Conception - Central Mining Institute, Katowice - Geologisches Institut, Universität Trier - Wadia Institute of Himalayan Geology, Dehradun-248001 (India)**