



# **STUDY OF A REACTIVE BARRIER DESIGN TO MITIGATE ACID MINE DRAINAGE: PRELIMINARY RESULTS**

**Presenter name: Amanda Cristine da Silva**

**Brazilian Nuclear Energy Commission - CNEN**



- **Objective:**

Evaluation of the efficiency of limestone reactive barriers to mitigate acid mine drainage occurrence on former Brazilian uranium mine.

- **Methodology:**

Laboratory testing consists in percolating water through glass columns, while monitoring the chemical and physico-chemical parameters.

## • Results

- The columns using 100% of limestone showed better results on mitigating solubilization of  $U_3O_8$ ;
- The preliminar results show a good potential. Next step on the research is to scale up to pilot scale tests.