



NES Colloquium

Monday, 11 April 2016, 11:00 - 12:00, OSGA/EG06

LES: Labor für Endlagersicherheit

Prof. S. Churakov, PSI & Univ. Bern

LES serves the national needs, present and future, in providing the scientific basis for the safe geological disposal of radioactive waste. LES supports Nagra by providing state-of-the-art synthesis reports and data reports with specific geochemical and transport data as input to Nagra's codes for safety assessment in the context of the national waste management program. LES maintains a proper balance between applied and basic research in order to ensure knowhow transfer and knowledge management in strategic areas. LES carries out a research program in the fields of:

- Interfacial chemistry and transport of radionuclides in clay- and cement-based systems,
- Thermodynamics and kinetics of retention in such systems,
- Reactive transport studies relevant to repository in situ conditions including both modeling and experimental aspects.

Together with the Chair of Mineralogy at the University of Bern, LES contributes to the education of young scientists in the field of geochemistry, geo-materials and its application to geological disposal of radioactive waste.

The presentation will give an overview of the recent research projects in LES and LES' contributions to the Swiss Geological waste disposal program.