

## Title: Integrated management of TRU waste

### 1. Profile Information of Dr. Ian McKinley

Trained as a nuclear geochemist, with almost 4 decades of experience in the multi-disciplinary science underpinning radioactive waste management. Presently dividing time between consulting and teaching (visiting professor Okayama University). Previous responsibility, as a member of the Nagra Management Team, for the Swiss national waste management programme and, as Director of the International Services and Projects Division, for the development of international consulting services, the operation of the Grimsel Test Site and the foundation of the ITC school.

Career highlights include:

- Contribution to planning, implementation, documentation or review of all major geological disposal performance assessments in Switzerland and Japan.
- Integrated assessment of near-field geochemistry and far-field radionuclide migration for deep disposal of a range of wastes (HLW, SF, “TRU”) in a variety of geological settings
- Development and assessment of novel disposal concepts for HLW, SF and TRU (CARE, PEM disposal, nested hydraulic cages, etc.) and initiation of seminal geomicrobiology, radionuclide migration and natural analogue projects
- Active ongoing involvement in advanced Knowledge Management, repository design optimisation, site characterisation and realistic safety assessment studies. Also actively supporting Fukushima remediation work.
- Author / co-author of 3 books and about 300 open technical publications (papers, reports, articles and book chapters).

### 2. Outline of colloquium

- What is TRU and why is it a concern?
- What is the current status in Japan?
- What is going on with such waste in a similar programme (UK: codisposal of HLW & reprocessing waste, volunteer approach to siting)?
- What advances are expected in TRU management?
- Key areas to be considered in Japan in the future.