



Invitation to submit

Geological Society Special Publication

Implementing Geological Disposal of Radioactive Waste – Input from Research Activities

Edited by S. Norris, M. de Craen and W. Baille

Providing safe, permanent disposal of legacy and future higher activity radioactive waste is essential. Deep burial of waste in a Geological Disposal Facility (GDF) is the internationally recognised preferred way forward. Research activities provide key inputs to the implementation of waste disposal.

Delivering a GDF requires the input from a range of expertise including geoscientific, environmental, social scientific and engineering disciplines:

- ✓ to develop an understanding of the surface, near-surface and deeper geological history – the pre-disposal ‘baseline’ conditions at any proposed site;
- ✓ to understand (through surface-based investigations, natural analogue studies, modelling and experimentation) how the sub-surface environment may respond to GDF construction and waste emplacement; and
- ✓ to understand how the disposal system (engineered barriers, host and surrounding geology, surface environment) may evolve on a timescale that could extend to one million years in the future.



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This Geological Society Special Publication welcomes contributions concerning research activities furthering the geological disposal of radioactive waste. Collectively, the Special Publication will seek to indicate links between geoscience, environmental sciences, social sciences and engineering, in the context of international progress in the development of GDFs. Papers considering research case histories, ongoing collaborative work, national / international perspectives and planned research activities to enhance the state-of-the-art will be considered.

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