

## Special Issue

# Deep Borehole Disposal of Nuclear Waste

### Message from the Guest Editors

Long-lived intermediate-level waste (ILW), spent fuel (SF), high-level wastes from reprocessing of SF (HLW) and long-lived spent sealed sources (SSS) require a high degree of containment and isolation deep underground. Disposal in medium-depth (tens to hundreds of metres) boreholes in hard rock or sedimentary formations can provide adequate isolation and containment for cost-effective disposal of relatively small volumes of ILW and SSS. Deeper borehole disposal (hundreds to thousands of metres) has been considered for HLW, SF, separated plutonium wastes and some very high specific activity fission-product wastes. For this Special Issue, we invite papers that discuss aspects of identifying waste streams potentially suitable for borehole disposal, site suitability characteristics and site selection, subsurface characterisation of host rock and deep fluids, coupled thermal-hydraulic-mechanical-chemical modelling of borehole-host rock environments, borehole design and drilling and borehole management technologies, waste handling and emplacement technologies, borehole sealing, long-term engineered barrier behaviour, post-closure safety assessments, and cost and economic modelling.

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### Guest Editors

Dr. Dirk Mallants

Dr. Karl Travis

Prof. Neil Chapman

Dr. Patrick Brady

Mr. Hefin Griffiths

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### Deadline for manuscript submissions

closed (17 May 2019)



## Energies

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*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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### Editor-in-Chief

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