

Call for Papers

Reservoir engineering: geoenvironmental issues

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Environmental Geotechnics THEMED ISSUE

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Climate change concerns, in addition to the ever-increasing demand for energy, and disputes over the use of relatively new underground energy resources, have once again brought the attention of both public and private sectors to reservoir engineering problems. Extraction of shale gas using the fracking process, speculations about the pollution of aquifers, efficient production of hot water and steam from hot dry rock reservoirs, and environmental concerns that raised the need for CO₂ sequestration have been among some of the common discussions over the past decade.

Reservoir engineering problems are complex by nature as they involve interaction between several entities and physical phenomena such as material stress, heat exchange, chemical contamination and liquid pressure. Therefore, in order to gain an in-depth and accurate vision of the short- and long-term behaviour of reservoirs, further research and studies are required. This has motivated the present call for a themed issue of *Environmental Geotechnics* on 'reservoir engineering: geoenvironmental issues'.

The focus of this special issue will be on the latest developments in numerical and physical modelling of reservoirs as well as modern advances in fracturing, storage and extraction techniques that have improved our understanding of reservoirs and have resulted in better operation and management of the various resources.

This issue will concentrate on the following topics

- geothermal energy
- CO₂ sequestration
- shale gas fracking
- contamination and pollution of aquifers and water
- reservoir stability.

The deadline for abstracts is 1 September 2016 The deadline for submissions is 21 January 2017.

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