Introduction to the Special Issue “GeoProc 2017”

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As part of the GeoProc conference series, the GeoProc 2017 Conference was dedicated to a few traditional topics and broke new grounds related to coupled thermo–hydro–chemo–mechanical (THCM) processes in geosystems (<https://geoproc2017.sciencesconf.org/>).

After Stockholm in 2003 (GeoProc03), Nanjing in 2006 (GeoProc06), Lille in 2008 (GeoProc08), Perth in 2011 (GeoProc11), and Utah in 2015 (GeoProc15), the 6th GeoProc conference was held in Paris, at the Ecole des Ponts ParisTech and IFSTTAR, between 5 and 7 July 2017.

The event was co-organized by the Ecole des Ponts ParisTech (ENPC), the French Institute of Science and Technology for Transport, Spatial Planning, Development and Networks (IFSTTAR), the University of New South Wales (UNSW) and the Commonwealth Scientific and Industrial Research Organization (CSIRO).

GeoProc 2017 gathered scientists, engineers and practitioners with different backgrounds to address common scientific issues for a wide range of natural and engineering phenomena in geological systems and energy production.

The applications concern hydrocarbon extraction, enhanced oil and gas recovery, nuclear waste disposal, formation of mineral deposits, induced seismicity and natural hazards, geothermal energy, CO₂ geological sequestration, as well as some new emerging areas in geoengineering.

GeoProc 2017 saw 112 participants from 21 countries in four continents. A total of 6 keynote lectures, 67 oral presentations and 16 posters presentations took place assuring a high scientific and technical level for research and applications related to Coupled THCM Processes in Geosystems.

This special issue includes eight selected papers, which underwent a complete review process following the publication rules of the Rock Mechanics and Rock Engineering Journal under the supervision of the Guest Editors.

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