Contribution ID: **223** Type: **POSTER**

Effective and environmentally compliant in-situ recovery of sedimentary-hosted uranium (poster)

Wednesday, 27 June 2018 17:00 (1 hour)

This poster is the companion to the oral paper (Contribution 219) that reviews recent advancements in Development of in-situ recovery (ISR) projects for uranium including
 dedicated exploration/delineation methods and field tests for gathering deter-mining data,
 efficient lab tests and assays of core samples, including up-scaling methodolo-gy applied to (1D) column leach tests for a reliable feasibility study of (3D) field ISR,
Planning and optimization of ISR processing comprising wellfield hydrology,
 leaching chemistry,
 monitoring and process control,
 economics,
 environmental compliance,
Post-mining measures for ISR aquifer restauration in accordance to regulatory re-quirements including
 conceptual methodology (combining test procedures and model predictions) for ISR project development and permit procedure,
 monitoring and optimization.
The effective and environmentally compliant ISR of uranium will be demonstrated for recent ISR projects operated by Heathgate Resources in the Frome Basin, South Australia.

Country or International Organization

Australia

Primary author: Dr MAERTEN, Horst (Heathgate Resources Pty Ltd)

Co-authors: Mr SMITH, Aaron (Heathgate Resources Pty. Ltd.); Ms MARSLAND-SMITH, Andrea (Heathgate Resources Pty. Ltd.); Mr PACKER, Ben (Heathgate Resources Pty. Ltd.); Mr KALKA, Harald (Umwelt- und Ingenieurtechnik GmbH Dresden); Ms NICOLAI, Jana (Umwelt- und Ingenieurtechnik GmbH Dresden); Mr ZAUNER, Micha (Umwelt- und Ingenieurtechnik GmbH Dresden); Mr GORZECHOWSKI, Michael (Heathgate Resources Pty. Ltd.)

Presenter: Dr MAERTEN, Horst (Heathgate Resources Pty Ltd)

Session Classification: Poster Session

Track Classification: Track 7. Uranium production by the in situ leaching (ISL) process