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Australian National
Chapter
NSW Branch

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Tuesday 10 April 2018
5.30pm for a 6pm start

WSP office

Ernst & Young Centre
Level 27, 680 George Street, Sydney CBD

****For late arrivals, please phone Peps on 0428936645 for access****



IAH NSW proudly presents a talk by **Grant Ferguson** Ph.D., P.Geo., Eng.L
Associate Professor of Geological Engineering, University of Saskatchewan

**Hydrogeological Lessons Learned from Deep Subsurface Development of
the Williston Basin, Canada**

The Williston Basin has seen extensive oil and gas production over the past decade, notably from the Bakken Formation. This basin also has a long history of conventional oil production, potash mining and disposal well operation and has more recently become host to two carbon storage projects. This has all occurred in a region that is highly dependent on groundwater resources, particularly in rural areas. Experiences gained from the development of this basin should provide insights into how unconventional oil and gas development should proceed in other areas.

Analysis of different hydraulic and geochemical datasets has provided an idea of what measurements are useful and how site investigations and monitoring programs should be designed, however, many of our insights come from large datasets generated by the oil and gas industry.

Frontier areas may be able to address some of the challenges encountered with discerning background water quality issues from those arising from oil and gas development or other deep subsurface projects. Whether or not a limited number of detailed site investigations in frontier areas can replace data from tens of thousands of wells is unclear and drilling in the Williston Basin began nearly a century ago, which further complicates baseline studies.

Please RSVP to:

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