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NSW Branch

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NATIONAL CENTRE  
FOR GROUNDWATER  
RESEARCH AND TRAINING

Tuesday 27 November 2018

5.30pm for a 6pm start

**WSP office**

Level 27, 680 George Street, Sydney CBD

Meet in foyer

**\*\*For late arrivals, please phone Aaron on [0420766809](tel:0420766809) for access\*\***



IAH NSW proudly presents the 2018 Distinguished Lecture Series talk by  
**Dr Jennifer Stauber**, Chief Research Scientist, CSIRO Land & Water

#### **Groundwater Quality: An Ecotoxicology Perspective**

Groundwater ecosystems contain a unique suite of microbes and invertebrates that provide valuable ecosystem services, including maintenance of aquifer porosity and flow, and breakdown of many contaminants. Regulation of groundwater systems has previously focused on the effects of groundwater extraction on beneficial uses, or as a source of contaminants to surface waters, rather than on the protection of groundwater ecosystems themselves.

Due to the connectivity between groundwater and surface waters, a holistic approach to their management and protection is required. However, groundwaters have unique physicochemical and hydrological properties, and often endemic biota, that necessitate the development of specific groundwater quality objectives.

This talk will highlight some of the emerging contaminants from industrial, mining, coal seam gas and defence activities e.g. PFOS, that have the potential to impact groundwater quality and ecological health. Case studies demonstrating the application of new ecotoxicological tools such as bioassays and molecular (-omics) techniques to assess impacts on groundwater biota and biodiversity will be discussed.

**Please RSVP to:**

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