Australasian Groundwater Conference 2019

Theme 'GROUNDWATER IN A CHANGING WORLD'

- RESOURCES | extractive industries, agriculture, renewables and groundwater management
- INFRASTRUCTURE | supporting growing populations and the supply of food, water and energy
- ENVIRONMENT | sustainability and environmental protection within a changing climate

Sub-Categories and Session Co-Chairs

**Groundwater Settings/Systems**

1. Regional Scale Studies  
   Andrew Love (Flinders Uni) & Sreekanth Janardhanan (CSIRO)
2. Fractured Rock Hydrogeology Systems  
   Doug Weatherill (EMM) & Claudia Cherubini (Uni of Ferrara)
3. Special Session: Great Artesian Basin - Hydrogeology Journal Special Issue (By Invitation)  
   Carlos Ordens (Uni of Qld) & Neil McIntyre (Uni of Qld)
4. Large Scale Multidisciplinary Studies to Support Resources Development in Australia: Groundwater Perspective  
   Kate Holland (CSIRO) & Andrew Taylor (CSIRO)
5. Groundwater Settings / Systems - Other

**Hydrogeological Processes**

6. Coastal Processes & Tropical Island Hydrogeology  
   Adrian Werner (Flinders Uni) & Phil Hayes (Uni of Qld)
7. Recharge & Groundwater-Surface Water Interaction  
   Martin Andersen (UNSW) & Ian Cartwright (Monash)
8. Alluvial Systems and Vados Zone Hydrogeology  
   Chengji Shen (Hohai Uni) & Pei Xie (Hohai Uni)
9. Intermittent/Ephemeral Drainage Systems  
   Pauline Grierson (UWA) & Margaret Shanafield (Flinders)
10. Hydrogeological Processes - Other

**Novel Investigation Techniques**

11. Tracers and Isotopes  
    Fred Cosme (Geosyntec Consultants) & Brent Usher (KCB)
12. Geophysical & Petrophysical Methods and Groundwater  
    Eddie Banks (Flinders Uni) & Wendy Timms (Deakin Uni)
13. Emerging Aquifer Testing Tools, Methods and Data Capture  
    Grazia Gargiulo Terra Sana Consultants & Stephen Denner (Arrow)
14. Novel Investigation Techniques - Other

**Hydroecology and Dependent Ecosystems**

15. Groundwater Dependent Ecosystems  
    Peter Serov ( Stygoecologia) & Katarina David (EGi)
16. Stygofauna and Microbiology  
    Grant Hose (Macquarie Uni) & Jenny Stauber (CSIRO)
17. Special Session: Springs Of The Great Artesian Basin - The Royal Society Of Queensland Special Issue (By Invitation)  
    Steve Flook (DNRM), Renee Rossini (Uni of Qld) & Angela Arthington (Griffith Uni)
18. Hydroecology and Dependent Ecosystems - Other

**Groundwater and Agriculture**

19. Nutrients And Diffuse Pollution in Aquifers and Catchments  
    Lucy Reading (Qld Uni of Technology) & Ranvir Singh (Massey Uni)
    Ross Caruthers
21. Irrigation And Groundwater Protection  
    Graham Herbert (DNRM) & Stewart Cameron (GNS Science)
22. Groundwater and Agriculture – Other

**Regulation, Policies and Management**

23. Cumulative Groundwater Impacts - Assessment and Management  
    Sanjeev Pandey (DNRM) & Peter Baker (Dept. Environment & Energy)
24. Groundwater Stress, Metering and Allocations  
    Adrian Mckay (DNRM) & Nena Bulovic (Uni of Qld)
25. Water Quality Management Matthew Currell (RMIT) & Emma White (Uni of Melbourne)
26. Regulation, Policies and Management - Other

**Groundwater in the Resources Sector**

27. Emerging Challenges in Mining and Groundwater Qingdong Qu (CSIRO) & Russell Mertz (CDM Smith)
28. Integrating Petroleum Engineering and Hydrogeology Suzanne Hurter (Uni of Qld) & Patrick McKeley (Shell)
30. Groundwater in the Resources Sector - Other

**Modelling**

32. Coupled Modelling (Reactive Chemistry and Transport, Geomechanics and Transport) Henning Prommer (CSIRO) & Ralf Haese (Uni of Melbourne)
33. Data Assimilation and Metrics for Models in Decision Support Roles Neil Manewell (AGE Consultants) & Catherine Moore (CSIRO)
34. Modelling - Other

**Community Engagement, Cultural Values and Groundwater Resources**

35. Social Engagement, Attitudes and Connection to Groundwater Catherine Allan (CSU) & Kathy Witt (Uni of Qld)
36. Cultural Heritage, Transboundary Management and Social Hydrology Makoto Taniniguchi (RIHN) & Yongping Wei (Uni of Qld)
37. Indigenous Groundwater Values and Connections Bradley Moggridge (Uni of Canberra)
38. Community Engagement, Cultural Values and Groundwater Resources - Other

**Groundwater Contamination and Remediation**

39. Aquifer Contamination and Vulnerability Assessment Joanne Vanderzalm & Declan Page (CSIRO) & Jim McCallum (Uni of WA)
40. Emerging Contaminants (PFAS, Pharmaceuticals and More) Jackie Wright (Flinders Uni) & Rachael Casson (AECOM)
41. Radionuclides, Arsenic and Geogenics Dirk Mallants (CSIRO) & Paul Degnan (Catalystra)
42. Groundwater Contamination and Remediation - Other

**Big Data and Innovative Applications**

43. Use Of Big Data and Groundwater Databases - Mapping, Cleansing and Maintenance Andras Bardossy (Uni of Stuttgart) & Sebastian Hoerning (Uni of Qld)
44. Artificial Intelligence and Machine Learning Applications Gerhard Schoning (DNRM) & Tao Cui (CSIRO)
45. Big Data and Innovative Applications - Other

**Infrastructure and Groundwater**

46. Groundwater Management in Major Infrastructure Projects Graham Hawkes (AECOM) & Scott Fidler (Golder)
47. Groundwater Studies to Solve Geotechnical Issues Detlef Bringemeier (CDM Smith) & Allan Watson (ATC Williams)
48. Decommissioning and Rehabilitation of Water Infrastructure (no session chairs allocated at this stage)
49. Infrastructure and Groundwater - Other

**Climate Change/Variability Impacts**

50. Climate Impacts And Water Security in Tropical and Arid Climates Ian White (ANU) & Peter Sinclair (SPC)
51. Groundwater Resources Vulnerability in a Changing Climate Olga Barron (CSIRO) & Glen Walker
52. Climate Change/Variability Impacts - Other