



**Claire McInnes, Program Manager – Research at Water Research Australia will be presenting on 5 ‘hot topics’ covered in their Research Symposium earlier this year.**

They include:

### **Climate Change and Extreme Events**

Climate change and the extreme events associated with climate change will have a very real effect on the water industry. The challenge for utilities in the face of this global change will be using the best knowledge we have to provide insights into what these effects might look like and how best to manage them. The research underway with Water Research Australia and their Project Partners nationwide include analysing the effects of climate change and extreme events on water quality both within reservoirs, and in the wider catchment. This session also includes a brief overview of some work being conducted on Bayesian risk assessment and modelling tools for extreme weather events.

### **Catchments**

Catchments in the wider sense are increasingly being ‘managed’ and monitoring. With various guidelines, tools and methods for managing catchments it is imperative that they are well understood and classified. A ‘hot topic’ presented on included understand the risk of *Cryptosporidium* and *Giardia* in animals within the catchment.

### **Water Customers**

A real challenge for Water Utilities is understanding their customers and increasing consumer confidence. Another ‘hot topic’ that will be touched on in this presentation will discuss research into assessment and understanding of customer perceptions of water quality.

### **Smarter Monitoring - Methods and Approaches**

Climate change and the extreme events associated with climate change will have a very real effect on the water industry. Two ‘hot topics’ being covered in this section look into the fine details of monitoring using nanoparticles in ultrafiltration testing, and evaluating surrogates for *Cryptosporidium* in granular media filtration. Both of which aim to improve the monitoring techniques used, implementing smart methods, on different scales.



**Tune in to hear more on each of the ‘hot topics’ and what’s in the future for research in these areas...**