

**Guidelines for the
Curtin Water Quality Research Centre
Chair-in-Residence Program**

April 2007

Description

The purpose of the Chair-in-Residence Program is to fund high calibre research scientists to actively participate in CWQRC research and to share their expertise, knowledge and experience within the CWQRC Alliance Partners. Research Chairs will be distinguished scientists in the field of Water Quality and Treatment, who have an outstanding research track record. The Chairs will be appointed at the invitation of the CWQRC Reference Group for a tenure of up to one year, during which time they will be based at the CWQRC at Curtin University.

Research Chair Activities

The Chair will

- Participate in existing CWQRC projects
- Provide advice and mentoring to research students and postgraduate and postdoctoral researchers
- Develop and carry out one or more new projects which fit within the objectives of the CWQRC and, broadly, within the project themes listed below
- Present guest lectures to University, Industry and Professional Organizations
- Participate in dialogue (discussions, seminars and technology transfer sessions) with the staff from the industry partner (WCWA) and allied bodies
- Develop and produce journal publications
- Present research findings at high-profile conferences
- Develop an ongoing collaboration with CWQRC
- Promote national and international networks and collaboration

Potential Research Themes

CWQRC undertakes research activities in the following topics.

1. Occurrence and formation of emerging disinfection by-products;
2. Causes and prevention of off-flavours (particularly chlorinous off-flavours) in drinking water;
3. Disinfectant loss (nitrification) in chloraminated distribution systems;
4. The role of NOM in the formation of disinfection by-products, disinfectant demand and biological regrowth;
5. Novel water treatment processes for NOM removal (e.g. advanced oxidation; Fenton's process; biological filtration; membrane processes);
6. Water treatment processes for bromide and iodide removal

Support provided by CWQRC

The Research Chair will have access to all CWQRC resources and facilities, including Curtin University facilities equivalent to those normally provided to Visiting Fellows.

Funding support is available and will be negotiated prior to appointment.