

# CWMR ENEWS

August 2008



## Research news

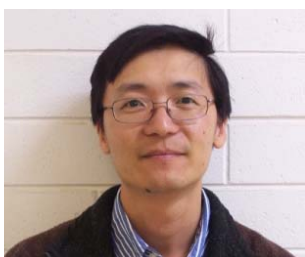
CWMR has recently been awarded two research grants:

1. Ian Clark has received a grant of \$40K from the SAAL NRM board to continue work on the Flinders and Gawler Ranges groundwater investigation project.
2. Simon Beecham is a chief investigator on a 2008 NSW Environmental Trust grant – Sustainable water management in the Duck River catchment (\$160K).

Mr Rezaul Chowdhury, a PhD student in CWMR, has been selected as a participant with IHDW –Asia Pacific Network Full Scholarship to attend the 'Training of Trainers on Capacity Building in Adaptive Water Management', organised by the International Human Dimension Programme (IHDP), Germany ([www.ihdp.org](http://www.ihdp.org)). The training will be held in New Delhi, India during 12-15 October 2008.

In July, Mr Chowdhury was also selected to attend a summer school on 'Managing Change: Tools and Methods for Adaptive Management on Water Systems', in Germany.

## Dr Chris Chow – profile on CWMR's New Adjunct



Dr Chris Chow has been appointed Adjunct Associate Professor with the Centre for Water Management and Reuse.

Chris Chow is the leader of the newly formed Advanced Water Quality Sensing and Optimisation team in the Centre. Chris graduated from UniSA with a B.App.Sc in chemical technology (major in Chemistry), M.App.Sc in environmental chemistry and a PhD in analytical chemistry.

He is currently a senior research chemist with the Water Treatment Unit, Australian Water Quality Centre (AWQC). During his 13 years with AWQC, he has been involved in a number of major water treatment related research projects and has been project leader of a number of CRC for Water Quality and Treatment projects.

His research areas include natural organic matter, cyanobacteria, optimisation of water treatment processes (conventional water treatment, membrane filtration, MIEX, advanced

oxidation), disinfection control, distribution system management, distribution system modelling, disinfection by-products, recycled water, on-line monitoring and various analytical techniques related to water quality investigation and process optimisation. Chris has a good working relationship with the Australian water industry and other national and international research.

He has been appointed Adjunct Professor and gained postgraduate student supervisor status with the Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences. He has also authored and co-authored over 130 technical papers in water science journals and conferences.

## Conferences, seminars, workshops

Terry Lucke and Simon Beecham developed and delivered a *Course on River and Floodplain Modelling* to 44 visiting Mekong River personnel for ICEWaRM. The two 2-day courses were conducted from 11 – 14 April.

Associate Professor Linda Zou gave a short presentation on 'Low energy desalination alternative: capacitive deionisation' at the Green Water: Emissions Reduction Forum on 31 July, 2008. The forum was organised by Water Industry Alliance.

Associate Professor Linda Zou gave a presentation at and AWQC seminar on 22<sup>nd</sup> July. She presented her recent research work on using combined advanced oxidation processes and membrane treatments for wastewater reuse.

Professor Dennis Mulcahy spoke on the achievements of the CRC for Water Quality and Treatment at the 'Industry Day', organised by ICEWaRM on 22<sup>nd</sup> July, for a delegation from the National Mekong Committees of Vietnam, Cambodia, the Lao PDR and Thailand.

Tim Golding organised the TechNetSA conference recently at CWMR. Four workshops, involving technicians from other universities, were including a stormwater and irrigation tour and presentations by Simon Beecham and Tim Golding.

David Pezzaniti conducted a short workshop, associated with a metering project for the National Water Commission, in Sydney with key industry representatives on 7th July.

Adjunct Prof John Argue was involved in the presentation of a one-day seminar/workshop on water-sensitive urban design (WSUD), organised by the Lower Hunter & Central Coast Regional Environmental Study, held in Maitland, NSW, on 26 May;

He was also Keynote Speaker at a Forum entitled *Urbanisation and Waterway Health: policies, and processes for management of impacts* held at Sunshine Coast Council, Maroochydore, Queensland on 17 June. The paper (co-authored by John Argue and David Pezzaniti) proposed some 'new thinking' about management of (urban) waterways in South-east Queensland and was recognised as making a 'significant contribution' to the subject;

John Argue also presented a two-day *Stormwater Management (source control)* workshop organised by Engineering Education, Australia in Brisbane, 24/25 July; this presentation is one in the series given by Prof Argue. He also presented a paper entitled *Water Supply in*

*Adelaide: understanding the crisis* at the SA Museum on Sunday 27 July. The presentation was followed by a lively question/discussion session. The paper included valuable material contributed by other members of CWMR, in particular Prof Don Bursill, Dr John van Leeuwen and Mr Richard Clark.

Simon Beecham presented two papers including a keynote paper at the recent joint NSW/Queensland Stormwater Industry Association Conference, held on the Gold Coast from 8-11 July.

## Publications

Hassanli, A. M., Esmaili, N. A. and Beecham, S. (2008), Evaluation of the effect of porous check dam location on fine sediment retention (a case study), *Environ Monit Assess*, DOI 10.1007/s10661-008-0318-2 (<http://www.springerlink.com/content/639137v853391742>)

Hassanli, A. M., Ebrahimizadeh, M. A. and Beecham, S. (2008), The Effects of Irrigation Methods with Effluent and Irrigation Scheduling on Water Use Efficiency and Corn Yields in an Arid Region, *Agric. Water Manage.* DOI: 10.1016/j.agwat.2008.07.004

Ian Clark, Lynn Brake, Sustainable Management of Groundwater Resources in Parts of Arid South Australia, IHAR International Groundwater Symposium, Istanbul, 2008.

Usama Abu Risha, Ian Clark (poster) Locating the Subsurface Heterogeneities Using the  $^{87}\text{Sr}/^{86}\text{Sr}$  Isotopic Ratio and the Trace Elements, Dalhousie, South Australia, IHAR International Groundwater Symposium, Istanbul, 2008.

Beecham, S. (2008), Water Sensitive Urban Design - Going Underground, *Keynote Paper*, Stormwater Industry Association Annual NSW and Queensland Conference, Gold Coast, Australia.

Collins, A., Morison, P. and Beecham, S. (2008), Deemed to Comply Stormwater Management Requirements for Parramatta City Council, Stormwater Industry Association Annual NSW and Queensland Conference, Gold Coast, Australia.

Shackel, B., Beecham, S., Pezzaniti, D. and Myers, B. (2008), Design of Permeable Pavements for Australian Conditions, 23rd ARRB Conference, Adelaide, Australia

Dunphy, A. and Beecham, S. (2008), Use of Concrete Additives to Improve the Quality of Storm Water Runoff from a Car Park, 11th International Conference on Urban Drainage, IAHR/IWA, Edinburgh, Scotland

Dunphy, A. and Beecham, S. (2008), Protecting Groundwater Quality Using Porous Pipe and Engineered Soil Systems, 11th International Conference on Urban Drainage, IAHR/IWA, Edinburgh, Scotland

Singh, G., Chanan, A., Ghetti, I. and Beecham, S. (2008), Connells Point Stormwater Improvement Project, 11th International Conference on Urban Drainage, IAHR/IWA, Edinburgh, Scotland

## Awards

**Associate Professor Ian Clark** was recently awarded a 2008 Citation for Outstanding Contributions to Student Learning from the Australian Learning and Teaching Council. Ian Clark was awarded the Citation for an outstanding and sustained contribution to the development of an innovative, integrated, and student-centred program in protected area management.

## Media

In August Simon Beecham was interviewed twice on the Channel 9 6pm national news and also on the Carole Whitelock program on ABC radio.

### Murray River Action

Protestors have booed politicians on the steps of the South Australian parliament to demand immediate action on the Murray River. Helen Griffiths, rally organiser, says "the problems of this river stem from mismanagement and over-allocation of water." Tim Westow, from the South Australian Murray Irrigators, comments "we're rallying... because of the inaction and lack of will by the state governments to deal with the over-allocation of the Murray-Darling Basin." Sarah Hansen-Young, Greens senator, says "we need new water to be released into the system no later than Christmas." **Simon Beecham, University of South Australia**, says "it's not a simple matter of just extracting more water or opening up a... dam." Joe Flynn, Water Industry Alliance, believes a national water authority is needed to fix the situation. Mike Young, University of Adelaide, thinks national rather than state control of the Murray River is needed.

**Interviewees:** Helen Griffiths, rally organiser; Joe Flynn, Water Industry Alliance; Mike Young, University of Adelaide; Sarah Hansen-Young, Greens senator; **Simon Beecham, University of South Australia**; Tim Westow, South Australian Murray Irrigators.

**ABC 666 Canberra (National Australia) PM - 01/08/2008 - 06:42 PM** Mark Colvin  
**Radio National (National Australia) PM - 01/08/2008 - 05:42 PM** Mark Colvin

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### Murray Darling Basin

Xenophon says the Prime Minister should audit the water held in the Murray Darling Basin. He says he is delivering the letter as thousands of families will lose their homes unless action is taken. Zadow says water is needed to help farmers hang on. Xenophon says we need to know where the public and private storages are. **Beecham** says **UniSA** will look at water storages using grant they were given. Zadow says people are frustrated.

**Interviewees:** Ian Zadow, irrigator; Nick Xenophon, Senator-Elect; Simon Beecham, UniSA  
**Channel 9 (Adelaide) National Nine News - 29/07/2008 - 06:10 PM** Rob Kelvin and Kelly Nestor

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### Nature Based Tourism Experience

Smith says the North West region is surrounded by some incredible geological formations. Smith says **Ian Clark**, Professor, **University of South Australia** says more regions should tap into geology when promoting the experience of nature-based tourism. Smith says this was one of the many topics covered at the Australian Earth Sciences Convention in Perth this week. **Clark** says the Pilbara has real potential to develop a geological trail.

**Clark** says many of the major tourist attractions in Australia i.e. Uluru and the Twelve Apostles are geologically based. **Clark** says there is a high demand for this type of attraction. **Clark** says there needs to be a larger emphasis on informing tourists of the unique nature of Australia's geological landscape. **Clark** says the responsibility to do this lies with local shires, tourism operators and State Govt's. **Clark** discusses why people are so attracted to Australia's spectacular geological landforms.

**Interviewees: Ian Clark, Professor, University of South Australia**

**ABC North West WA (Karratha)**

**Rural Report - 25/07/2008 - 06:47 AM Laurissa Smith**

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