



Living Laboratories

Supported by: NRM Research Alliance



Water Industry
Alliance

Technological innovation in wetland management

Context

Wetlands, floodplains and other riverine systems are recognised as a vital part of our environment, yet many are degrading rapidly.

Regulation of water flows along with other obstructions have dramatically altered the natural flow regime of many river and wetland systems and reduced the frequency of inundation of many inland wetlands.

Without a step change in management of wetlands, particularly regarding water use efficiency, many will suffer ecological collapse.

The irrigation industry has developed smart tools and technology that have dramatically improved water use efficiency of crop irrigation. Can these tools be modified for application to management of environmental flows to help maximise the ecological benefits?

Living Laboratories

The philosophy behind "Living Laboratories" is that the current investment through Natural Resource Management Programs in landscape change offers the research community a "laboratory" within which hypotheses can be tested and measurements can be taken at an appropriate geographic scale. The Living Laboratories Program is supported by ICE WaRM and DWLBC.

WHEN Tuesday 24th June 2008, 1.30pm - 5.30pm

WHERE The Vines room, National Wine Centre

RSVP

If you would like to attend the workshop please contact Amber Welk by 18th June 2008 at awelk@icewarm.com.au

Podcast

This workshop will be podcast on the ICE WaRM website under Living Laboratories, www.livinglaboratories.com.au

Workshop Goal

The goal of the workshop is to begin a conversation around the use of irrigation technologies for wetland management.

Workshop Objectives

- Share information on emerging science and technologies for more effective and efficient ecological outcomes in riverine ecosystems
- Identify priority areas for further development and research



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WORKSHOP SCHEDULE

Presenter	Topic
Paul Dalby (ICE WaRM)	Welcome, introduction to Living Laboratories and format of workshop
	Management Challenges
Judy Goode (SAMDB NRM Board)	Challenges of water allocation planning
Bec Turner (SAMDB NRM Board)	Wetland management plans: science-based actions for ecological outcomes
	Discussion
	Ecological responses to watering
George Ganf (University of Adelaide)	Effects of flow choices on wetland health
	Afternoon tea
	Technical approaches
Mike McCarthy (SARDI)	Floodplain irrigation futures
Jorg Hacker (Flinders University)	Airborne sensing using non-manned aircraft
Peter Moller (AquaSpy)	Tailored sensor technology for wetland irrigation regimes
Mike Donkersley (Sentek)	Remotely managed irrigation of wetlands based on ecological demands
Peter Toome (Adcon Telemetry Australia)	Wireless networks in remote locations
Terry Crown (Micromet)	Sustainable wetland management systems at Salisbury
	Discussion/workshop
	Case Studies
Holger Maier (University of Adelaide)	Upper South East Resource Optimisation Framework: smart management of limited water for environmental outcomes
Tony Herbert (SAMDB NRM Board)	Wetland and floodplain management in Chowilla
Kate Mason (SAMDB NRM Board)	Paiwalla: community based wetland management
	Discussion/ Next steps