



Department of
Sustainability
and Environment



Department of
Primary Industries



alluvium



WISEwaterways

A Workshop in
Stream Management Principles and Practices

24 - 28 October 2011

Venue: Quality Hotel Wangaratta Gateway, Wangaratta

Presented by

North East Catchment Management Authority
Department of Sustainability and Environment
Department of Primary Industries
North East Water
Sinclair Knight Merz
La Trobe University
River Basin Management Society
Alluvium Consulting Pty Ltd

Testimonial: Professor Lin Crase

Water is more than volumes held by a bureaucrat in Canberra

There is a widely held view that the deterioration in the ecological health of Australia's inland waterways is primarily a result of excessive extraction, especially by agricultural interests. Accordingly, much of the political debate and policy formulation around 'environmental water' has centred on restoring some form of 'balance', by either purchasing water entitlements from irrigators or using public monies to secure water via 'water-saving' projects.

Unfortunately, achieving environmental outcomes is not merely a case of 'add more water'. This is not to say that buyback of entitlements is a bad thing – rather, there is a high likelihood that opportunities will be foregone and costs will be higher because of the policy fascination with volumes and the inability to achieve congruence across different levels of government.

Are scientists a help or hindrance in resolving some of these problems?

Biography

Lin is Professor of Applied Economics with the Regional School of Business at La Trobe University. He is also the Director of the Albury-Wodonga campus. Lin has a PhD in Economics and his fields of competence are primarily in water policy, institutions for managing water allocations, water property rights and analysis of the trade-offs between sectors that compete for water access. He is currently managing research projects for the Commonwealth government and regularly provides advice to state and regional agencies on water policy.

He has published four books and more than 75 refereed journal articles along with numerous book chapters, conference papers and invited contributions. He is regularly sought out by the media and others for his views on the political economy of water policy in Australia.



Lin Crase

Professor of Applied
Economics
Campus Director
La Trobe University |
Albury-Wodonga Campus

Vision

To provide a forum for a comprehensive overview of Stream Rehabilitation and Management Principles and Practices.

Aims

An integrated approach to Stream Management: Hydrology, Water Quality, Ecology, Riparian Vegetation, Geomorphology and Rehabilitation Techniques.

To provide extensive “hands on” experience through group assignments.

Background

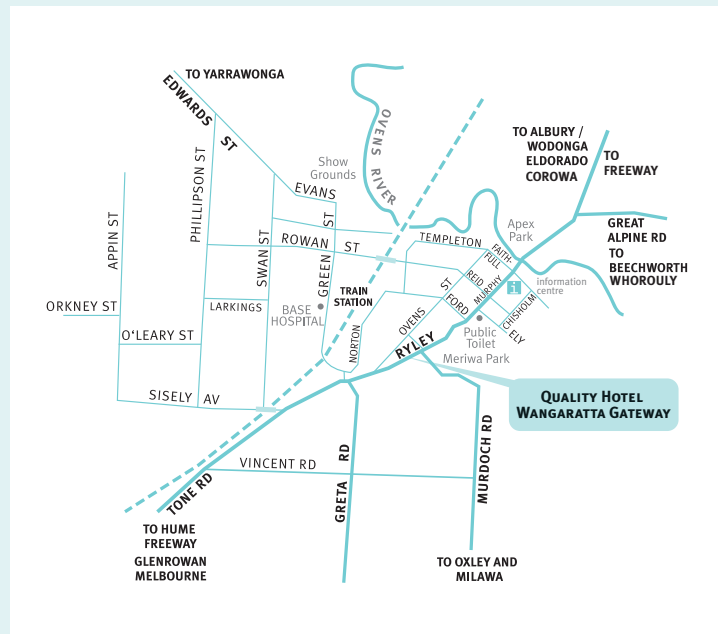
In the twelve years that the Workshop has been running, some 680 participants have completed the program. The program has evolved over this time, reflecting the issues faced by water managers of today. Wise Water Ways is supported by the water industry. The program features speakers who are leaders in their field.

Who Should Attend?

The course is aimed at people working in, or who are interested in stream management, particularly those involved in practical natural resource works programs.

The Region / Travel

Wangaratta is situated in North East Victoria. It is approximately 2½ hours drive from Melbourne. The nearest airport is Albury Airport (45 minutes drive). Hire cars are available from both airports. If you are travelling from Melbourne, an alternative is to catch a train from Melbourne's Southern Cross Station to Wangaratta (V-Line or Countrylink). Diverse vegetation, macro invertebrates and geomorphic issues in the area provide a number of opportunities for managers to evaluate stream systems.



Accommodation

Accommodation has been reserved for participants at Quality Hotel Wangaratta Gateway, 29 Ryley Street, Wangaratta.

Special rates have been organised. They range from a single occupancy room - \$140.00 per room per night to apartments / townhouse sleeping 4 people at \$312.00 per night. There are also twin and triple rooms available. The rates include a fully cooked breakfast.

Please contact the secretariat via email: nemeet@bigpond.com to explore options before completing the registration form at the back of this brochure.

Program of Activities

Sessions		Presenter
Monday 24/10	Day One Introduction to Stream Management	
12.45 – 2.30pm	Stream Rehabilitation Concepts <ul style="list-style-type: none"> • Steps for stream rehabilitation • Assessment • Investigations • Concepts • Design • Community consultation • Prioritisation 	Dr Ian Rutherford <i>Director Integrated River Health Policy & Investment Office of Water DSE</i>
2.30 – 3.00pm	Afternoon Tea	
3.00 – 5.45pm	Riparian Vegetation Field Demonstration	Paul Wilson <i>Office of Water DSE</i>
7.00pm	Dinner followed by Q & A	Professor Andrew Boulton <i>UNE Armidale Editor 'Marine and Freshwater Research'</i>
Tuesday 25/10	Day Two Assessment Techniques	
8.30 – 9.00am	National River Health Strategy <ul style="list-style-type: none"> • Policy - context, priorities 	Paul Wilson <i>Office of Water DSE</i>
9.00 – 12.30pm	Stream Assessment Techniques <ul style="list-style-type: none"> • Introduction and overview • Assessment of hydrology, vegetation and physical condition • Role of macro-invertebrates • Water quality and blue-green algae 	Paul Wilson Dr Roger Croome Dr Phil Suter <i>La Trobe University Albury Wodonga Campus</i>
12.30 - 12.45pm	Waterwatch Victoria Program	Sarah Greenwood-Smith <i>DSE</i>

Program of Activities

1.30 – 5.30pm	Demonstration of Field Data Collection <ul style="list-style-type: none"> • Field surveys (level and staff) • GPS data collectors • Macro-invertebrate sampling • Vegetation assessment • Physical condition assessment 	Paul Wilson Chris Dwyer <i>SKM</i> Phil Suter
7.00pm	Keynote Address - Professor Lin Crase Water is more than volumes held by a bureaucrat in Canberra	Professor Lin Crase <i>Professor of Applied Economics</i> <i>Campus Director</i> <i>La Trobe University</i> <i>Albury-Wodonga Campus</i>
Wednesday 26/10 Day Three Processes		
8.30 – 9.00am	Catchment Processes / Catchment Management - Case Study Ovens Basin	Rick Felton
9.00 – 9.40am	Stream Ecology <ul style="list-style-type: none"> • Why is ecology important? • Streams as ecological systems • Indicators of stream health 	Professor Gerry Quinn <i>Chair in Marine Biology</i> <i>Deakin University</i> <i>Warrnambool Campus</i>
9.40 – 10.20am	Fish Habitat <ul style="list-style-type: none"> • Fish ecology - flows, habitat, water quality, barriers, large woody debris • Fish migration triggers and patterns 	Dr David Crook <i>Arthur Rylah Institute for</i> <i>Environmental Research DSE</i>
10.20 – 10.50am	Morning Tea	
10.50 – 12.20pm	Catchment Hydrology and Geomorphology <ul style="list-style-type: none"> • Open channel hydraulics • Stream geomorphology 	Dr Dean Judd <i>Goulburn Broken CMA</i> Dr Tony Ladson <i>Moroka Consulting</i>

Program of Activities

12.20 – 1.00pm	Environmental Flows <ul style="list-style-type: none"> • Water resource allocation • Environmental flows importance and assessment methodology • Streamflow management 	Dr Geoff Vietz <i>Department of Environmental Engineering The University of Melbourne</i>
1.00 – 2.00pm	Lunch	
2.00 – 5.30pm	Project data collection and write-up / Field Work	
7.00pm	Free Evening	
Thursday 27/10	Day Four	Rehabilitation Techniques
8.30 – 9.10am	Riparian Vegetation <ul style="list-style-type: none"> • The role of filter strips, organic carbon, shading, biodiversity and revegetation • Components and importance of riparian vegetation • Vegetation management and revegetation techniques • Ecological vegetation communities 	Jane Roots <i>School of Environmental Sciences Charles Sturt University</i>
9.10 – 9.55am	Willows/Exotic Trees <ul style="list-style-type: none"> • Identification and reproduction • Ecology, dispersal and management issues • Control techniques • Rehabilitation 	Dr Fiona Ede <i>DPI - Frankston</i> Andrew Briggs <i>North East Catchment Management Authority</i>
9.55 – 10.25am	Morning tea	
10.25 – 12.00pm	Stream Channel Management <ul style="list-style-type: none"> • Replicating natural systems • Working with stream processes • Grade control structures • Sediment stabilisation 	Ross Hardie <i>Alluvium Consulting Pty Ltd</i>
12.00 – 12.45pm	Lunch	

Program of Activities

12.45 – 1.30pm	Field Projects and Construction Works Works. What works?	Terry McCormack, Andrew Briggs <i>North East Catchment Management Authority</i>
1.30 – 5.30pm	Preparation of project reports	
6.30 – 7.30pm	Dinner	
8.00 – 10.00pm	Presentations of Group Projects	
Friday 28/10	Day Five	Field Visit
8.45 – 12.30pm	Field Visit to Ovens Catchment <ul style="list-style-type: none"> • View structural works • Revegetation and willow management 	Chris Dwyer, Terry McCormack, Andrew Briggs
12.30pm	Lunch on the Run	

Details are correct at time of program production, although may be subject to change.

Registration Form (Return by 14 October 2011)

A. PARTICIPANT

Title: Dr Mr Mrs Ms

Name:

Position:

Organisation:

Address:

..... Postcode

Phone(B): Mobile:

Fax:

Email:

Special Dietary Requirements:

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Privacy - I give permission for my details to be disclosed (no tick will be taken as yes) Yes No

To register for the workshop please complete the registration on the following page and forward / scan / fax it to:

Wise Water Ways
PO Box 645, Wangaratta Vic 3676
Email: nemeet@bigpond.com
Fax: 03 5721 7518

Contact Virginia Eckels or Rod Grant
Tel: 0408 109 707 Tel: 03 5721 7594



B. REGISTRATION FEES (by 14 October 2011)

Tax Invoice - Wise Water Ways Workshop ABN 67 621 867 449

Full Workshop Fee includes morning teas, lunches, dinners, annual subscription to RBMS

\$990
(GST Inclusive)

I would like more information about the RBMS?

For Members of the River Basin Management Society (RBMS)

\$952
(GST Inclusive)

C. DINNER FEE (for non registrants who wish to attend a dinner)

Mon. Tues. Thurs.

\$50
(GST Inclusive)

D. ACCOMMODATION

Town House

Sleeps up to 4 - \$312.00 per room per night (GST inclusive)

Apartment

Sleeps up to 4 - \$312.00 per room per night (GST inclusive)

Queen Suite

Single - \$140.00 per room per night (GST inclusive)

Family

Sleep up to 2 - \$160.00 per room per night (GST inclusive)

Family Suite

Sleeps up to 3 - \$175.00 per room per night (GST inclusive)

Sharing with:

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TOTAL

Check in date/...../..... Check out date/...../..... GST Inclusive

No. of nights	Total

Method of payment

If paying by cheque make payable to:
Wise Water Ways Workshop

cheque enclosed EFT

EFT payment Bank: Bendigo Bank
BSB: 633-000
Acc: 141 820 498

Forward registration form and cheque to:
NECEP, Wise Water Ways Secretariat,
PO Box 645, WANGARATTA VIC 3676

Please ensure you email details of your EFT payment and use your surname / organization as your reference. If EFT advice is not received then payment may not be associated with your registrations - and your registrations may not be processed.

Cancellation Policy: Full refund less 20% if advised 5 days prior to the Workshop

We would like to thank the following partners:



A Stream Rehabilitation Workshop

For further information contact:

Virginia Eckels, North East Conference and Event Planners
Tel: 0408 109 707 or Rod Grant 03 5721 7594 Email: nemeet@bigpond.com

