



NORTH EAST
CATCHMENT
MANAGEMENT
AUTHORITY



Department of
Sustainability
and Environment



Charles Sturt
University



LA TROBE
UNIVERSITY

alluvium



RBMS

Integrating Catchment Management for Australia



WISEwaterways

A Workshop in
Stream Management Principles and Practices

12 - 16 November 2012

Venue: Quality Hotel Wangaratta Gateway, Wangaratta

Presented by

North East Catchment Management Authority
Department of Sustainability and Environment

Sinclair Knight Merz

La Trobe University

River Basin Management Society

Alluvium Consulting Pty Ltd

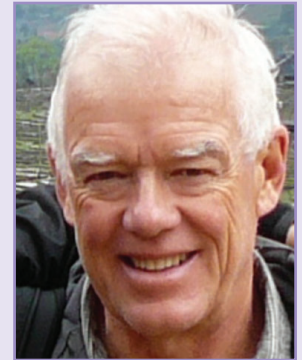
Charles Sturt University

Testimonial: Dr John Tilleard

Watching Waterways for (nearly) Four Decades

John Tilleard has 38 years consulting and research experience in waterway management in Australia and internationally. His original qualification is in Civil Engineering with a Masters in River Mechanics from Colorado State University and a PhD from Melbourne University looking at the relationship between hydrology and river morphology below dams. John became a Principal of Ian Drummond and Associates in 1991 and subsequently a Director of ID&A, Fisher Stewart, Southern Rural Water and Greening Australia (Vic). He is currently a Director of Yarra Valley Water and Coordinator of the Graduate Certificate in River Health Management for the University of Melbourne.

John's project experience ranges from the practical to the theoretical with current projects in PNG and USA as well as locally. He will use that experience to illustrate a series of observations on the changing approach to waterway management over the last (nearly) four decades and challenges for the future.



Dr John Tilleard
Principal
Moroka Consulting

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 thirteen years that the Workshop has been running, some 720 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. On completion of the Workshop participants will receive one credit towards either Charles Sturt University's Graduate Certificate in River Restoration or Master of Water Resource Management. For more information go to: <http://www.csu.edu.au/faculty/science/ses/courses> or contact Jonathon Howard E: JHoward@csu.edu.au T: 02 6051 9685.

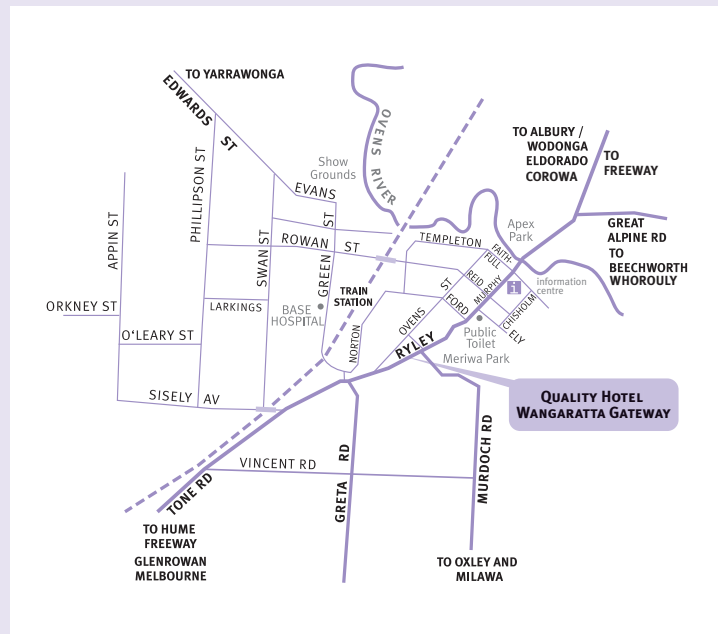
Who Should Attend?

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.

www.wisewaterways.org.au



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 - \$145.00 per room per night to apartments / townhouse sleeping 4 people at \$320.00 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 12/11	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>Associate Professor, University of Melbourne</i> <i>Director, Water Group, 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	Keynote Address by Dr John Tilleard <ul style="list-style-type: none"> • Watching Waterways for (nearly) Four Decades 	Dr John Tilleard <i>Principal Moroka Consulting</i>
Tuesday 13/11	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 	Paul Wilson Associate Professor Ewen Silvester Dr Phil Suter <i>La Trobe University Albury Wodonga Campus</i>

Program of Activities

12.30 – 1.30pm	Lunch	
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
6.45pm	Assessment Requirements	Professor Andrew Boulton <i>UNE Armidale</i>
7.00pm	Dinner and Entertainment by Pete Denahy	
Wednesday 14/11	Day Three	Processes
8.30 – 9.10am	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>
9.10 – 9.50am	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>
9.50 – 10.50am	Morning Tea at Kaluna Park <ul style="list-style-type: none"> • What makes a successful restoration program 	Andrew Snowdon <i>Rural City of Wangaratta</i> Rick Felton <i>Trust for Nature</i>
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 15/11	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 	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 16/11	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

A. PARTICIPANT

Title: Dr Mr Mrs Ms

Name:

Position:

Organisation:

Address:

..... Postcode

Phone(B): Mobile:

Fax:

Email:

Special Dietary Requirements:

.....

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
www.wisewaterways.org.au

Contact Virginia Eckels
Tel: 0408 109 707



B. REGISTRATION FEES

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. ACCOMMODATION

Town House

Sleeps up to 4 - \$320.00 per room per night (GST inclusive)

Apartment

Sleeps up to 4 - \$320.00 per room per night (GST inclusive)

Queen Suite

Single - \$145.00 per room per night (GST inclusive)

Family

Sleep up to 2 - \$165.00 per room per night (GST inclusive)

Family Suite

Sleeps up to 3 - \$180.00 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

cheque enclosed EFT

If invoice required please complete the following:

Purchase Order No:

Billing Address:

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

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

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

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.

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

www.wisewaterways.org.au

We would like to thank the following partners:



NORTH EAST
CATCHMENT
MANAGEMENT
AUTHORITY



Integrating Catchment Management for Australia



A Stream Rehabilitation Workshop

For further information contact:

Virginia Eckels, North East Conference and Event Planners

Tel: 0408 109 707 or Email: nemeet@bigpond.com

www.wisewaterways.org.au

