



NORTH EAST
CATCHMENT
MANAGEMENT
AUTHORITY



Department of
Environment, Land,
Water & Planning

JACOBS



alluvium



WISEwaterways

A Workshop in Stream Management Principles and Practices

24 - 28 October 2016

Venue: George Kerferd Hotel, Beechworth

Presented by

North East Catchment Management Authority
Department of Environment, Land, Water & Planning
Jacobs

La Trobe University

River Basin Management Society

Alluvium Consulting Pty Ltd

Charles Sturt University

Water Technology

The Murray-Darling Freshwater Research Centre

Arthur Rylah Institute for Environmental Research

Testimonial: David Papps

Managing and Understanding Environmental Water

For all its size and complexity, the Basin is best understood as a single organism in which anything that affects a part also affects the whole. It contains some of Australia's most diverse and rich natural environments while supporting domestic and agriculture water use, tourism and recreational activities and Indigenous cultural values and practices.

WISE use of water is the cornerstone of protecting and restoring the health of the Murray-Darling Basin.

Work is underway to fix inefficient water infrastructure throughout the irrigation districts of the Basin. This investment, along with other efficiency measures by the Australian government, enables water savings to be used to help bring back some of the river flows needed to restore parts of the natural system that have been impacted by river regulation and infrastructure created for human needs. This water is known as Commonwealth environmental water.

As the Commonwealth Environmental Water Holder, I am focussed on working with State and local delivery partners and Basin communities to ensure this water is used to its best effect throughout the Basin each year (and from year to year). In doing so, we are helping to reconnect rivers to their floodplains and wetlands in order to provide food, habitat and breeding opportunities for the many unique fish, waterbirds and vegetation native to the Basin.

David Papps - Biography

David Papps is the Commonwealth Environmental Water Holder - a statutory position responsible for managing Commonwealth environmental water to protect and restore the Murray-Darling Basin's environment.

David was the inaugural Director-General of the ACT Environment and Sustainable Development and prior to this, the inaugural Chief Executive of DECCEW. David joined the ACT Government from Victoria where he was a Deputy Secretary in the Department of Sustainability and Environment. He also spent nearly four years with Macquarie Bank as a Director in the Banking and Property Group helping establish its community partnerships business and also worked on Macquarie's indigenous development program and its sustainability policy. Before going to Macquarie, David was an Executive Director in Planning NSW where he led the Department's programs on strategic planning and policy across rural and regional NSW as well as developing policy and programs in natural resource management, especially in coastal planning and catchment management.

David was a Deputy Director-General in the NSW National Parks and Wildlife Service where he helped lead a major reform program which saw the establishment of new policies and legislation, including those covering endangered species conservation, natural resource management and sustainable development. He has also worked as a journalist, environmental consultant and policy advisor to a Government Minister.

Mr Papps holds an honours degree in zoology.

www.wisewaterways.org.au



David Papps
Commonwealth
Environmental Water Holder

Vision

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

Aims

To provide an integrated approach to Stream Management including hydrology, water quality, ecology, riparian vegetation, geomorphology and rehabilitation techniques.

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

Background

In the seventeen years that the Workshop has been running, over 810 people 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 industry speakers who are leaders in their field.

On completion of the Workshop and a short assessment task, students may be eligible to receive a subject credit towards either Charles Sturt University’s Graduate Certificate in River Restoration or Master of Water Resource Management or other relevant CSU course.

For more information go to:

<http://www.csu.edu.au/faculty/science/ses/courses> or contact the Course Director E: FOS-Course@csu.edu.au T: 02 6051 9651.

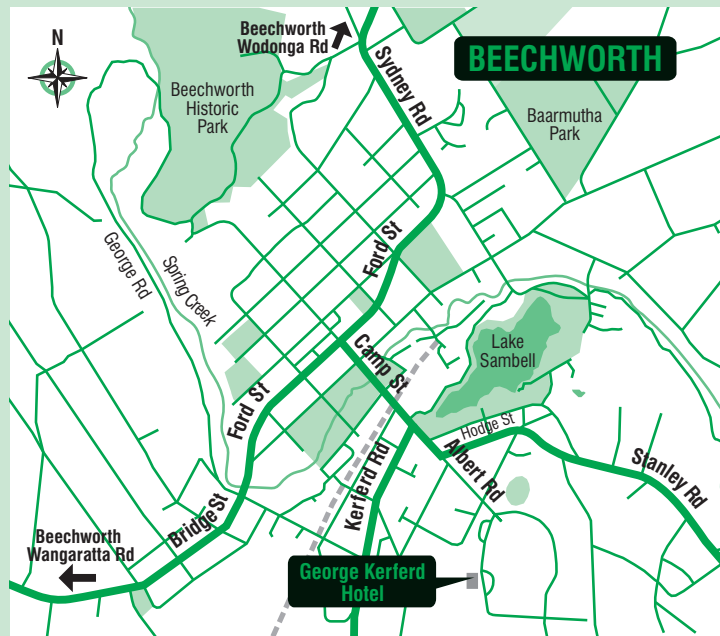
Who Should Attend?

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

The Region / Travel

Beechworth is situated in North East Victoria. It is approximately 3 hours drive from Melbourne. The nearest airport is Albury Airport (30 minutes drive). Hire cars are available from both airports and transfers from Albury Airport are either by Border Shuttle Bus or taxi. Beechworth is an ideal location for Wise Water Ways. 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 The George Kerferd Hotel, Beechworth.

Special rates have been organised. They range from \$90.00 to \$180.00 per night. The rates include a fully cooked breakfast. Please see the back page of the registration form for further details.

Please contact the secretariat via email: nemeet@bigpond.com to explore options before completing the registration form.

Program of Activities

Sessions		Presenter
Monday 24/10	Day One	Introduction to Stream Management
12.30 – 12.45pm	Program and Assessment	Professor Andrew Boulton <i>University of New England</i>
12.45 – 2.30pm	Stream Rehabilitation Concepts <ul style="list-style-type: none"> • Steps for stream rehabilitation • Assessment • Investigations • Concepts • Design • Community consultation • Prioritisation 	Ross Hardie <i>Alluvium Consulting Pty Ltd</i>
2.30 – 3.00pm	Afternoon Tea	
3.00 – 5.45pm	Riparian Vegetation Field Demonstration	Jamie Kaye <i>Water Technology</i>
7.00pm	Keynote Address and Dinner Managing and Understanding Environmental Water	David Papps <i>Commonwealth Environmental Water Holder</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>Department of Environment, Land, Water and Planning</i>
9.00 – 12.00pm	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 Dr Ewen Silvester <i>Associate Professor</i> <i>La Trobe University</i> <i>Albury Wodonga Campus</i> Dr Phil Suter

Program of Activities

12.00 – 12.45pm	Fish Habitat <ul style="list-style-type: none"> • Fish ecology - flows, habitat, water quality, barriers, large woody debris • Fish migration triggers and patterns 	Jarod Lyon <i>Arthur Rylah Institute for Environmental Research</i>
12.45 – 1.30pm	Lunch	
1.30 – 5.30pm	Demonstration of Field Data Collection and Aboriginal Heritage Identification <ul style="list-style-type: none"> • Field surveys (level and staff) • Macro-invertebrate sampling • Vegetation assessment • Physical condition assessment • Aboriginal Heritage Assessment 	Jamie Kaye Chris Dwyer Rose Overberg <i>Jacobs</i> Dr Phil Suter <i>Emeritus Scholar La Trobe University Albury Wodonga Campus</i>
7.00pm	Dinner and Entertainment	
Wednesday 26/10	Day Three	Processes
8.30 – 9.15am	Hydrology and Water Budget Concepts	Ben Tate <i>Water Technology</i>
9.15 – 10.00am	Geomorphology and Sediment Budget Concepts	Kathy Russell <i>University of Melbourne</i>
10.00 – 10.30am	Morning Tea	
10.30 – 11.10am	Applications Hydraulic Models	Ben Tate
11.10 – 11.45am	Environmental Flows <ul style="list-style-type: none"> • Water resource allocation • Environmental flows importance and assessment methodology • Streamflow management 	Professor Robyn Watts <i>Charles Sturt University</i>

Program of Activities

11.45 – 12.45pm	Stream Ecology - Scale and Disturbance <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 Deakin University Warrnambool Campus</i>
1.00 – 1.15pm	Briefing on Field Work	Professor Andrew Boulton
1.15 – 2.00pm	Lunch	
2.00 – 5.30pm	Project Data Collection and Write-up / Field Work	
	Free Evening or Dinner Conversation with Professors Gerry Quinn and Andrew Boulton	
Thursday 27/10	Day Four	Community Engagement and Rehabilitation Techniques
8.15 – 9.00am	Community Engagement <ul style="list-style-type: none"> • Valuing the community • Principles and practices • IAP2 Spectrum of engagement 	Dr Jane Roots <i>Department of Environment, Land, Water and Planning</i>
9.00 – 10.00am	Riparian Vegetation <ul style="list-style-type: none"> • The role of filter strips, organic carbon, shading, biodiversity and revegetation • Vegetation management and revegetation techniques • Ecological vegetation communities • Woody weed identification - ecology, dispersal and management issues • Rehabilitation of riparian zones 	Dr Jane Roots Andrew Briggs <i>North East Catchment Management Authority</i>
10.00 – 10.30am	Morning tea	

Program of Activities

10.30 – 12.00pm	Stream Channel Management <ul style="list-style-type: none"> • Replicating natural systems • Working with stream processes • Grade control structures • Sediment stabilisation 	Dr Ian Rutherford <i>Associate Professor University of Melbourne</i>
12.00 – 12.30pm	Lunch	
12.30 – 1.15pm	Field Projects and Construction Works Works. What works?	Terry McCormack, Andrew Briggs <i>North East Catchment Management Authority</i>
1.15 – 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.

www.wisewaterways.org.au

Registration Form (Registration by 12 October 2016)

A. PARTICIPANT

Title: Dr Mr Mrs Ms

Name:

Position:

Organisation:

Address:

..... Postcode

Phone(B): Mobile:

Email:

Special Dietary Requirements:

.....

Privacy - I give permission for my details to be disclosed
 Yes No

To register for the workshop online please go to www.wisewaterways.org.au or complete the registration on the following page and forward / scan it to:

Wise Water Ways
 PO Box 645, Wangaratta VIC 3676
 Email: nemeet@bigpond.com
www.wisewaterways.org.au

Contact: Virginia Eckels
 Tel: 0408 109 707



B. REGISTRATION FEES (by 12 October 2016)

Full Workshop Fee includes morning teas, lunches, dinners (excluding Wed), 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

(includes fully cooked breakfast)

Hotel Double Room

Double Bed - \$140.00 per room per night (GST inclusive)

Hotel King Room

King Bed - \$155.00 per room per night (GST inclusive)

Linaker (art deco inspired suites)

Queen Bed - \$150.00 per room per night (GST inclusive)

Linaker - single / twin share (art deco inspired suites)

2 single beds in separate rooms with shared bathroom - \$90 per person per night (GST inclusive)

Sharing with:

.....

TOTAL

Check in date / Check out date / GST Inclusive

No. of nights	Total

Method of payment

An invoice will be sent to you on receipt of the registration form. Please provide us with the following details:

Purchase Order No:

Billing Address:

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

Forward registration form 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



Department of
Environment, Land,
Water & Planning



LA TROBE
UNIVERSITY



WISEwaterways

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

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