



**A Workshop in
Stream Management Principles and Practices
30 October - 3 November 2006
Venue: La Trobe University, Beechworth**



Presented by
Department of Sustainability and Environment
Department of Primary Industries
Murray-Darling Basin Commission
North East Catchment Management Authority
North East Water
Wodonga Institute of TAFE
La Trobe University
Earth Tech

Testimonial

Water Reform from a Social Research Perspective: Challenging Conventional Wisdom

If we are to make progress with water reform we need to examine some of our assumptions. Let's examine some of these. Is water really scarce in Australia? What about the view that agriculture has a stronger claim on water than other uses? This view has led to poor policy and perverse social and economic impacts. Should we really invest heavily in water conservation in urban areas? I think we do in Melbourne and Sydney, but probably not Albury/ Wodonga or Canberra. Economists suggest that many of our problems would disappear if we established water trading? Perhaps, but there can be unintended environmental and social outcomes and some players can have a vested interest in limiting the effectiveness of developing markets.



Professor Allan Curtis
*Professor of Integrated
Environmental Management
Director, Institute for Land,
Water and Society
Faculty of Science and Agriculture
Charles Sturt University*

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 eight years that the Workshop has been running, some 500 participants have completed the program. The Workshop constitutes a minor "Stream Management Course" and on completion participants will receive a credit towards the TAFE "Diploma of Natural Resource Management".

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

Beechworth is situated in North East Victoria. It is approximately 3½ hours drive from Melbourne. The nearest airport is Albury Airport (30 minutes drive). Transfers from Albury Airport can be arranged. Beechworth is an ideal location for the Wise Water Ways Workshop. 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 the La Trobe University Campus at a special rate of \$85.00 per person per night including a cooked breakfast. Please complete your accommodation requirements on the registration form.

Program of Activities

| Sessions | | Presenter |
|--------------------------|---|---|
| Monday 30/10 | DAY ONE INTRODUCTION TO STREAM MANAGEMENT | |
| 12.45 – 2.30pm | <p style="text-align: center;">Stream Rehabilitation Concepts</p> <ul style="list-style-type: none"> • Steps for stream rehabilitation • Assessment • Investigations • Concepts • Design • Community consultation • Prioritisation | <p>Dr Ian Rutherford <i>Melbourne University Head of the School of Anthropology, Geography and Environmental Studies eWater CRC</i></p> |
| 2.30 – 3.00pm | Afternoon Tea | |
| 3.00 – 5.45pm | Riparian Vegetation Field Demonstration | <p>Paul Wilson River Health Unit DSE</p> |
| 7.00pm | Dinner and Keynote Address | Professor Allan Curtis |
| Tuesday 31/10 | DAY TWO ASSESSMENT TECHNIQUES | |
| 8.30 – 9.00am | <p style="text-align: center;">Victorian River Health Strategy</p> <ul style="list-style-type: none"> • Policy - context, priorities | <p>Deb Brown River Health Unit DSE</p> |
| 9.00 – 12.30pm | <p style="text-align: center;">Stream Assessment Techniques</p> <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 | <p>Paul Wilson Dr Gavin Rees Murray Darling Freshwater Research Centre Dr Phil Suter <i>La Trobe University</i></p> |

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 | Chris Dwyer <i>Earth Tech</i> Phil Suter Paul Wilson Lisa Carpenter Monash University |
| Evening | FREE EVENING | |
| Wednesday 1/11 | DAY THREE | PROCESSES |
| 8.30 – 9.00am | Catchment Processes / Catchment Management - Case Study Ovens Basin | Rick Felton DPI – Wangaratta |
| 9.00 – 9.45am | 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> |
| 9.45 – 10.30am | 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> |
| 10.30 – 11.00am | Morning Tea | |
| 11.00 – 12.00pm | Physical Processes <ul style="list-style-type: none"> • Catchment hydrology • Open channel hydraulics • Stream geomorphology | Dr Dean Judd <i>Earth Tech</i> |

Program of Activities

| | | |
|--------------------------|---|--|
| 12.00 – 12.40pm | 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>North East Catchment Management Authority</i> |
| 12.40 – 1.00pm | Lunch | |
| 1.00 – 5.30pm | Project data collection and write-up | |
| 7.00pm | DINNER – Election Promises and the Environment | John Howard |
| Thursday 2/11 | DAY FOUR REHABILITATION TECHNIQUES | |
| 8.30 – 9.10am | Environmental Flows <ul style="list-style-type: none"> • Water resource allocation • Environmental flows importance and assessment methodology • Streamflow management | Geoff Vietz <i>Melbourne University School of Anthropology, Geography and Environmental Studies</i> |
| 9.10 – 9.55am | Willows/Exotic Trees <ul style="list-style-type: none"> • Identification and reproduction • Ecology, dispersal and management issues • Control | Dr Fiona Ede <i>Keith Turnbull Research Institute at Frankston</i> Terry McCormack <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 |
| 1.30 – 5.30pm | Preparation of project reports | |
| 6.30 – 7.30pm | Dinner | |
| 8.00 – 10.00pm | Presentations of Group Projects | |
| Friday 3/11 | DAY FIVE FIELD VISIT | |
| 8.45 – 12.30pm | Field Visit to Ovens Catchment • View structural works • Revegetation and willow management | Chris Dwyer Terry McCormack |
| 12.30 | Lunch | |

Registration Form

A. PARTICIPANT

Title: Dr Mr Mrs Ms

Name:

Position:

Organisation:

Address:

..... Postcode

Phone(B): (H):

Fax:

Email:

Special Dietary Requirements:

.....

**To register for the workshop or attend
certain days please complete the
registration on the following page and
forward it to:**

**The Centre, Chisholm Street
Wangartta 3677
Fax: 03 5721 9994**



B. REGISTRATION FEES (by 16 October 2006) (64PWWW05)

Full Workshop Fee
includes morning teas, lunches, dinners **\$700**
(GST \$63.63)

C. DAY FEE (64PWWW05)
includes morning tea, lunch **\$265**
(GST \$24.10)

Day attending:

Mon. Tues. Wed. Thurs. Fri.

Dinner:

Mon. Wed. Thurs. **\$50**
(GST \$4.54)

D. ACCOMMODATION (64PWWW05)
Full accommodation **\$340**
(GST \$30.90)

Per night x \$85.00 x **Total**
(GST \$7.73) No. of nights

Check in date.....

Check out date.....

TOTAL
GST included

NB. Invoices may be raised for payment if required.

Cheque/Money Order made payable to "The Centre"

Bankcard Visa MasterCard

____ / ____ / ____ / ____

Expiry Date: ____ / ____

Cardholder's Name:

Cardholder's Signature:

Cancellation Policy

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

We would like to thank the following sponsors:



A Stream Rehabilitation Workshop



For further information contact:

North East Conference and Event Planners
Phone:(03) 5725 7346 Email: nemeet@dragnet.com.au or
Lachlan Campbell - Email: lachlan.campbell@alpvalleys.com.au