



WISEwaterways

A Workshop in Rural and Urban Stream Management Principles and Practices

23 - 27 October 2023

Venue: The Grand Oaks Resort, Beechworth

Presented by

North East Catchment Management Authority
Department of Energy, Environment and Climate Action
Confluence Group
Centre for Freshwater Ecosystems – La Trobe University
River Basin Management Society
Alluvium Consulting
Streamology
Charles Sturt University
Water Technology

KEYNOTE ADDRESS

Testimonial: Jamie Simmonds - Principal Consultant Water Technology

Moving to Higher Ground: Lessons from Grantham and Across the Globe

Jamie Simmonds, an internationally renowned expert in the field of managed retreat and community relocation, hails from the United States but has made Australia, particularly Brisbane, his home. Jamie's remarkable journey has captivated audiences worldwide, particularly individuals seeking inspiration and guidance in their own communities.

In 2011, Jamie directed the relocation of Grantham, an Australian town left devastated by catastrophic flash flooding that tragically claimed the lives of 19 people. Displaying exceptional leadership alongside the late Mayor Steve Jones, within just 12 months they saw the transition of over 100 families to new homes in a prosperous estate, situated on higher ground surrounding Grantham. Today, this relocation project is hailed as one of the most successful examples of managed retreat globally.

In 2020, Jamie documented the story in his book about the Grantham experience to show communities the positives and challenges associated with community relocation. Since then, communities, media organizations, academic institutions, and government agencies from every corner of the globe have reached out to Jamie for guidance. Seeking to understand how to rebuild communities in a safer and more resilient manner in a changing climate, they have recognized Jamie as an invaluable resource.

Jamie remains dedicated to assisting in the reconstruction endeavours of the Asia-Pacific region. Presently, Jamie is actively engaged in a community relocation program in the Northern Rivers region of New South Wales, collaborating closely with the Lismore community. This initiative was born out of the region's devastating flooding in 2022, and Jamie's involvement highlights their commitment to creating a brighter future for those affected.

With a rich background encompassing over 20 years in both government and the private sector, Jamie's story serves as a testament to the incredible accomplishments governments can achieve when guided by visionary leadership, deep community engagement, and an unwavering spirit of hope.



Jamie Simmonds
Principal Consultant
Water Technology Pty Ltd

Vision

To provide a forum for a comprehensive overview of rural and urban 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 twenty five years that the Workshop has been running, over 900 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 8 points credit towards the Charles Sturt University's Master of Environmental Management (with specialisations).

For more information go to:

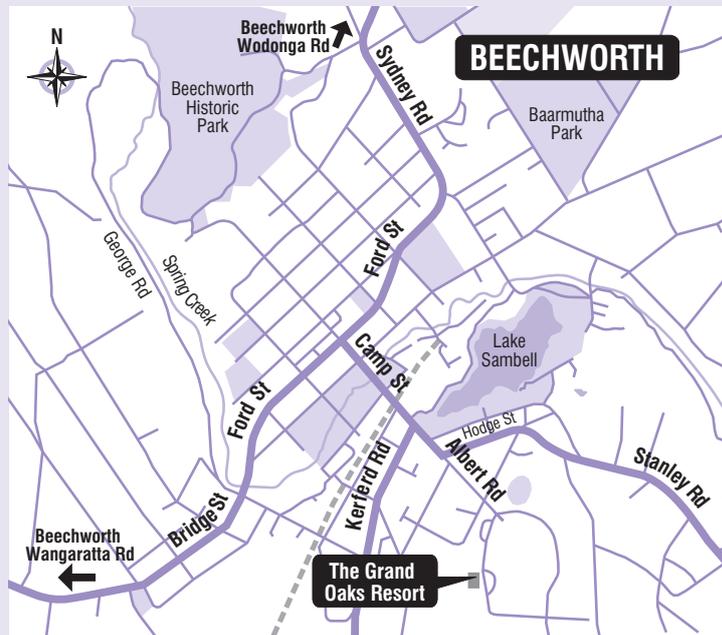
<https://study.csu.edu.au/masters-enviro> or contact the Course Director E: FOSH-Course@csu.edu.au T: 02 6051 9345.

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 by taxis. Beechworth is an ideal location for Wise Water Ways. Diverse vegetation, macro-invertebrates and interesting geomorphology in the area provide a number of opportunities for managers to evaluate stream systems.



Accommodation

Accommodation has been organised for participants at the workshop venue - The Grand Oaks Resort - and also at Linaker Art Deco Motel which is a 5 minute walk from the venue.

Room rates are from \$170 per room per night (single occupancy) and includes a full buffet breakfast. Please see the back page of the registration form for further details.

Please contact the secretariat via email: info@wisewaterways.org.au if you have any queries.

Program of Activities

Sessions		Presenter
Monday 23/10	Day One Introduction to Stream Management	
1215 - 1245 hrs	Acknowledgement of Country Welcome, Program and Assessment	Professor Ian Rutherford <i>Professorial Fellow</i> <i>University of Melbourne</i> <i>National Research Director</i> <i>Alluvium Consulting</i> Lachlan Campbell <i>North East Catchment</i> <i>Management Authority</i>
1245 - 1430 hrs	Wise Waterway Concepts <ul style="list-style-type: none"> • Steps for stream rehabilitation • Assessment • Investigations • Concepts • Design • Community consultation • Prioritisation • Environmental flows 	Professor Ian Rutherford
1430 - 1500 hrs	Afternoon Tea	
1500 - 1745 hrs	Assessing Riparian Vegetation (Field)	Jo Slijkerman / Jamie Kaye <i>Water Technology</i>
1830 hrs	Dinner	
Tuesday 24/10	Day Two Stream Assessment Techniques	
0830 - 0900 hrs	The Process of Policy Making <ul style="list-style-type: none"> • policy context, science in policy and policy development and evolution 	Dr Amber Clarke <i>Corangamite Catchment</i> <i>Management Authority</i>
0900 - 0930 hrs	Integrating Climate Change <ul style="list-style-type: none"> • Water yield and quality - effects of a changing climate on the aquatic landscape 	Professor Nick Bond <i>Centre for Freshwater Ecosystems</i> <i>La Trobe University</i>

Program of Activities

0930 - 1000 hrs	Morning Tea	
1000 - 1130 hrs	Monitoring Water Quality <ul style="list-style-type: none"> eDNA Role of macro-invertebrates in Ecosystems	Associate Professor Ewen Silvester <i>Centre for Freshwater Ecosystems La Trobe University</i> Dr Sally Maxwell <i>Centre for Freshwater Ecosystems La Trobe University</i>
1130 - 1215 hrs	What Fish Want <ul style="list-style-type: none"> Fish ecology - flows, habitat, water quality, barriers, large woody debris Fish migration triggers and patterns 	Dr Jarod Lyon <i>Arthur Rylah Institute for Environmental Research</i>
1215 - 1330 hrs	Lunch on Country - Aboriginal Heritage Identification and Communication	Donna Sherwen <i>Department of Energy, Environment and Climate Action</i>
1330 - 1730 hrs	Skills in Action <ul style="list-style-type: none"> Field surveys (Level and Staff) Macro-invertebrate sampling Vegetation assessment Physical condition assessment 	Chris Dwyer <i>Confluence Group</i> Dr Sally Maxwell Jo Slijkerman <i>Water Technology</i> Dr James Grove <i>University of Melbourne</i>
1900 hrs	Keynote Address <ul style="list-style-type: none"> Moving to Higher Ground: Lessons from Grantham and Across the Globe 	Jamie Simmonds <i>Principal Consultant Water Technology</i>
Wednesday 25/10	Day Three	Processes
0830 - 0915 hrs	Go with the Flow (Hydrology/Hydraulics) <ul style="list-style-type: none"> Principles of hydrology, rainfall and runoff budgets How urban and rural land uses change hydrology 	Ben Tate <i>Water Technology</i>

Program of Activities

0915 - 1000 hrs	The Dirt on Managing Physical Form and Function <ul style="list-style-type: none"> • Sediment movement and management • Working with waterway geomorphology 	Dr Geoff Vietz <i>Streamology</i>
1000 - 1030 hrs	Morning Tea	
1030 - 1115 hrs	Waterway Sensitive Urban Design <ul style="list-style-type: none"> • Options to achieve sustainable water management in an urban environment • Smart developments to retain water in urban landscapes 	Dr Belinda Hatt <i>Melbourne Water / University of Melbourne</i>
1115 - 1200 hrs	Making Spatial Data Work for You <ul style="list-style-type: none"> • Technology as tools • Sources of spatial data • What is the best technology to do your job 	Dr James Grove <i>University of Melbourne</i>
1200 - 1240 hrs	Riparian Vegetation <ul style="list-style-type: none"> • The role of filter strips, organic carbon, shading, biodiversity and revegetation • Woody weed identification - ecology, dispersal and management issues • Rehabilitation of riparian zones 	Jo Slijkerman <i>Water Technology</i>
1245 - 1315 hrs	Lunch	
1315 - 1730 hrs	Project Data Collection and Field Work	
1900 hrs	Free night / Pub Meal with a Side-Serve of Science - Optional	Professor Ian Rutherford and Dr Jane Roots
Thursday 26/10	Day Four	Community Engagement and Rehabilitation Techniques
0830 - 0945 hrs	Community Engagement <ul style="list-style-type: none"> • Principles and practices 	Brooke Hermans <i>RMCG</i>
0945 - 1100 hrs	Onground works: When to, when not to. <ul style="list-style-type: none"> • Replicating natural systems • Working with stream processes • Grade control structures • Sediment stabilisation 	Ross Hardie <i>Alluvium Consulting</i>

Program of Activities

1100 - 1130 hrs	Morning Tea	
1130 - 1200 hrs	Tying it All Together	Professor Ian Rutherford
1200 - 1300 hrs	Field Projects and Construction Works • Works. What works?	Andrew Briggs <i>Victorian Fisheries Authority</i>
1300 hrs	Lunch	
1330 - 1630 hrs	Preparation of Project Reports	
1700 hrs	Presentation of Group Reports	
1830 - 1930 hrs	Dinner	
1930 - 2200 hrs	Presentations of Group Projects	
Friday 27/10	Day Five	Field Visit
0845 - 1230 hrs	Applying our new skills to the Ovens River (Field) • View structural works • Revegetation and willow management • Drone technology demonstration	Chris Dwyer Lachlan Campbell Dr Geoff Vietz
1230 hrs	Lunch on the Run	

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

www.wisewaterways.org.au

Registration Form

(Registration by 6 October 2023)

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: info@wisewaterways.org.au
Contact: Virginia Eckels Tel: 0408 109 707

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



B. REGISTRATION FEES (by 6 October 2023)

Full Workshop Fee includes morning teas, lunches, dinners (excluding Wed), annual subscription to RBMS

\$1345
(GST Inclusive)

I would like more information about the RBMS?

For Members of the River Basin Management Society (RBMS)

\$1265
(GST Inclusive)

C. ACCOMMODATION (includes cooked breakfast)

No. of nights	Total

The Grand Oaks Resort Room \$200

\$200 per room per night (Single Occupancy)

Linaker Art Deco Motel \$170

\$170 per room per night (Single Occupancy)

Check in date / /

TOTAL

Check out date / /

GST Inclusive

COVID Policy

We ask that participants please stay at home if feeling unwell.

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:

.....

.....

.....

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

Forward registration form to:

Wise Water Ways Secretariat, PO Box 645, WANGARATTA VIC 3676.

Email: info@wisewaterways.org.au

www.wisewaterways.org.au Tel: 0408 109 707

We would like to thank the following partners:



NORTH EAST
CATCHMENT
MANAGEMENT
AUTHORITY



A Stream Rehabilitation Workshop

For further information contact:

Virginia Eckels, Wise Water Ways Secretariat
Tel: 0408 109 707 or Email: info@wisewaterways.org.au
www.wisewaterways.org.au