

Introduction to eWater Source

A new approach to integrated water resource management

eWater Source is Australia's new national hydrological modelling platform. Source integrates water policy, hydrology and ecology into a complete simulation framework for the creation and implementation of realistic river basin and urban water management policy.



eWater, in partnership with the International Centre of Excellence in Water Resources Management (ICE WaRM), presents Introduction to eWater Source.

This introductory course covers the major elements of Source at an elementary level with presentations and hands-on tutorial sessions.

About Source

eWater Source provides decision support for water system planning and operations covering water quantity, water quality and ecosystem health, integrated across urban and rural catchments. Its flexible, transparent, robust and repeatable framework is applicable to a wide range of water planning and management problems.

Source can be used to develop water sharing plans and underpin daily river operations. It can also be used to make assessments on water quantity and quality due to changes in land use, climate, water demands and infrastructure types, while allowing for the influence of management rules and the consideration of ecological impacts.

Source also enables:

- new methods and tools to be brought into the policy process without a requirement to rework and recalibrate other parts of the modelling framework
- configuration and customisation for specific water management situations
- integration with existing hydrological models and data management systems.

Course details

Date: Tue 4 - Thu 6 December 2012

Time: 9.00am - 5.00pm

Venue: Innovation Centre, Bldg 22, University of Canberra

Cost: Day 1 (4 Dec) \$880 incl GST

Days 2-3 (5-6 Dec) \$1760 incl GST

Days 1-3 (4-6 Dec) \$2200 incl GST

Book online now

www.ewater.com.au/training-registration
or complete the form on p3

Who should attend

Engineering and environmental professionals in local, state and federal government, consultancies and waterway and catchment management agencies.

Course insights

Day 1: *What is Source? Introduction to basic functionality*

- Conceptual framework, how it works and why
- Best practice modelling
- Basic catchment model setup
- Basic river model setup
- Output processing and plotting – statistics and more
- Advanced features and examples of applications including environmental flows and urban water demand using the expression editor.

Day 2: Detailed catchment modelling

- Choice of models, data needs and accuracy
- Water quality modelling with simple EMC/DWC basis and discussion of filter models
- Calibration Tool.

Day 3: Detailed river modelling

- Modelling the interactions between groundwater and surface water
- Generating cyclical demands and inflows using the expression editor
- Custom functions and plugins
- Environmental demand modelling
- Introduction to Insight, an optimisation and trade-off analysis component of Source.

Presenters



Dr Geoffrey Adams

Dr Adams is eWater's Principal Hydrologist (Rivers). He has worked extensively in water resources planning, operations and research including roles with the Murray-Darling Basin Authority, CSIRO, Goulburn-

Murray Water and the Snowy Mountains Hydro-electric Authority.



Dr Ashis Dey

Dr Dey has significant experience in hydrology, hydraulics and flooding. He has led various national and international flood studies, working with councils, water authorities and consultants around Australia.

Dr Dey has also been a trainer in modelling software to professional engineers in Australia, New Zealand, Japan, Korea and Malaysia.



Dr Robert Carr

Dr Carr is the Deputy CEO of eWater and an experienced hydraulic and hydrological modeller both in Australia and internationally.



Professor Gary Jones

Professor Jones is the Chief Executive of eWater and has extensive experience in real-world environment and water management. He is Chairman of the International Riverfoundation (IRF), and has

authored more than 100 scientific publications on topics of water quality, ecology and environmental flows.



Geoff Davis

Geoff Davis has significant experience in both the management and technical disciplines of agile software development. He has managed a successful team of more than 30 developers, testers and hydrologists

on the Source modelling platform.

What's included?

- Course notes
- Access to Source software for duration of the course
- Lunch, morning and afternoon tea each day.

What you need to bring

To participate in a Source training course you need a laptop. Please check requirements and display settings at www.ewater.com.au/Source-training-laptop

Contact ICE WaRM

T: +61 8 8236 5208

E: training@icewarm.com.au



An Australian Government Initiative

Registration Form

This form constitutes a Tax Invoice once payment has been made. **ABN** 13 112 314 780

Please complete this form and **email** to training@icewarm.com.au or **fax** to 08 8236 5236
Or register online at www.ewater.com.au/training-registration

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Tue 4 - Thu 6 December 2012, Innovation Centre, Bldg 22, University of Canberra

Registration details

Title: **First Name:** **Last Name:**

Position: **Organisation:**

Address:

State: **Postcode:** **Telephone:** ()

Email:

Payment details: Day 1 \$880 incl GST or Days 2-3 \$1760 incl GST or Days 1-3 \$2200 incl GST

The following discounts apply:

5% ICE WaRM Industry Affiliates, found at www.icewarm.com.au/IA
Organisation name & member number:

10% ICE WaRM Partners, partner name:

10% eWater Source Modelling Community Member, organisation name:

15% Full-time students, institution name:

Group discounts are available by contacting us: **T:** 08 8236 5208 **E:** training@icewarm.com.au

Total Payment: \$ **inc GST**

Electronic Funds Transfer: BSB 035-006 Account No.: 194 889 Reference: Surname & 'WaterEsntl'

Cheque payable to: "WaterEd Australia" GPO Box 860, Adelaide SA 5001

Debit **Visa** **MasterCard** **Card Number:**

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