

IWES is the largest and most successful continuing education program in Australia for professionals in the water and related industries.

IWES courses are designed to keep busy professionals abreast of the latest trends and developments.

IWES courses will run in Melbourne, Perth, Sydney and the Gold Coast in the next 12 months.



Carbon Accounting in the Water Industry From 17/08/2009 to 19/08/2009

The aim of this course is to provide water industry practitioners with the skills and knowledge to 1) understand the risks posed by climate change to their organisation; 2) calculate their greenhouse gas footprint; and 3) assess and develop strategies for reducing their exposure to physical climate change risk.

The water industry is a significant energy consumer and generator of direct and cradle-to-grave greenhouse gas emissions from collection and treatment systems. As a consequence, our industry is intricately linked with climate change, in both cause and effect. It is now also well understood that there will inevitably be a change in the climate due to human induced global warming. This will pose a physical risk for the infrastructure and operations of the industry.

In the current social and political environment, it is important that organisations understand the magnitude and nature of their climate change risk and develop strategies to reduce it. Many water organisations are already moving towards "carbon neutrality" or "zero net emissions" by calculating, reducing and offsetting their greenhouse gas emissions.

This is a practical course with real-world Australian case studies and "hands-on" workshops.



ISSUES ADDRESSED

DAY 1

- Climate change risks and the drivers for greenhouse gas reductions in the water industry
- National Greenhouse and Energy Reporting (NGER) System
- Carbon Pollution Reduction Scheme (CPRS)
- The practicalities of NGERs and CPRS for water organisations
- Workshop: Physical climate change risk assessment & response strategy

DAY 2

- Workshop: Calculating a general greenhouse gas inventory
- Fugitive greenhouse gas emissions from wastewater systems
- Workshop: Calculating a greenhouse gas inventory for a water organisation, including different types of wastewater treatment plants

DAY 3

- Strategies for reducing greenhouse gas emissions in the water industry
- "Carbon neutrality" and generating accredited offsets
- Workshop: Developing a credible greenhouse gas emissions reduction strategy for a water organisation
- Case studies: The use of Life Cycle Assessment (LCA)

WHAT DO YOU GET ?

- Access to world leading practitioners
- Course notes and CD-ROM
- Detailed Australian case studies

WHO SHOULD ATTEND?

Any water sector professional that requires an introduction to all aspects of the principles of climate change risk and greenhouse gas emissions assessment and reduction specifically in the water industry.

This includes:

- Climate Change / Protection Officers
- Managers responsible for greenhouse gas emissions
- Government enforcement agencies
- Engineers and technical managers
- System designers

Presenters:



Jeff Foley

Jeff Foley is a senior process engineer with GHD in Brisbane. He has over seven years experience in the areas of wastewater treatment, odour control and greenhouse gas emissions. His involvement in projects has ranged from concept design and process modelling, through to detailed design, construction, commissioning and process optimisation. He is the principal author of a recently published WSAA study on Fugitive Greenhouse Gas Emissions from Wastewater Systems, and has presented in several national and international forums on the issues of greenhouse gas emissions, life cycle assessment and sustainable development. He is also studying for a PhD at the Advanced Water Management Centre, The University of Queensland. His thesis topic is "Life cycle assessment of biological nutrient removal wastewater treatment systems", with a special focus on fugitive greenhouse gas emissions.



Chris Lund

Dr Chris Lund is Principal Sustainability Consultant with GHD where he is responsible for coordinating the company wide climate change and greenhouse gas management services.

He has 20 years multidisciplinary experience in the areas of sustainable energy and greenhouse gas management including teaching, research and consulting. More recently he has experience in eco-efficiency and triple bottom line corporate sustainability.

Chris is also a research leader in the Centre for Sustainable Resources Processing and an adjunct Associate Professor in the Centre of Excellence in Cleaner Production at Curtin University of Technology.



Melbourne 2009 Registration Form

Cost of Registration (AUD \$2250 incl.GST)

Discounts and AWA YWP membership

- Discounts for organisations registering multiple delegates 2 - 3 = 5% 4 - 5 = 10% 6 and over = 15% All registrations are attached to confirm this discount as per Item 3 in the 'terms and conditions'
- 5% AWA individual member discount. Current Individual Membership no. _____
- Yes I would like to accept AWA Young Water Professionals Membership as part of my registration fee, and authorise IWES to forward my contact details to AWA. Please note, if you are a lapsed AWA full member you are not eligible for AWA YWP membership.

Only one discount type can be applied – Group or AWA

First name _____ Last name _____

Organisation _____ Address _____

Phone _____ Email _____

- Yes I would like to find out more about **WaterAid**, and I authorise IWES to forward my contact details to WaterAid Australia. IWES is a member of WaterAid. WaterAid is an international NGO dedicated exclusively to the provision of safe domestic water, sanitation and hygiene education to the world's poorest people.

Payment Details

- I have enclosed a cheque made payable to IWES Or, I authorise you to debit my: Visa Mastercard

Cardholders Name: _____ Card number: _____

Amount: _____ Expiry date: _____ / _____ Signature _____

Send completed form to IWES by fax 07 3550 3150 Or post to PO Box 6127 Mitchelton Qld 4053
Email: info@iwes.com.au IWES ABN: 93 085 246 699 Credit Card payment **must** be signed by the Cardholder

TERMS AND CONDITIONS

1. Cancellation of registration less than 3 weeks before the starting date of a course(s) will incur a cancellation fee of 50% of the course price. Alternatively, delegates may send a substitute.
2. While every attempt will be made to deliver all advertised courses, IWES reserves the right to cancel individual courses at short notice.
3. Only registrations submitted and invoiced in one batch qualify for multiple registration discounts.
4. Only one discount can be claimed if applicable (ie. Group or AWA).
5. AWA membership status will be checked prior to granting AWA discount.