

ReWater

Water recycling in Australia

AUTUMN 08

\$7million recycled water plant for Surbiton Park

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ReWater

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About ReWater

This newsletter, ReWater, has been designed to make information relevant to recycled/recycled water use in horticulture more accessible to horticulturalists (growers/farmers), the water industry and other interested people. It is part of the service provided by the Australian Coordinator for Recycled Water Use in Horticulture, funded by Horticulture Australia.

Back issues and instructions for subscribing to receive ReWater electronically on a quarterly can be accessed at www.recycledwater.com.au/rewater

Your Feedback and Contributions

We would appreciate your feedback and suggestions for contributions. Please email rewater@arris.com.au or contact us on 03 9421 1701.

www.recycledwater.com.au



The delivery of research and development outcomes from this project to the horticultural industry is made possible by the Commonwealth Government's 50% investment in all Horticulture Australia's research and development initiatives.

Know-how for Horticulture™

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www.arris.com.au



Stage 1 – An artist's impression of a sustainable residential streetscape at the new township of Eynesbury

New recycled water plant nearing completion

When complete, Western Water's recycled water plant will save an estimated 1,800 million litres of drinking water a year.

The plant will be built at Western Water's Melton recycled Water Plant, west of Melbourne, to serve the new township of Eynesbury and future development at Melton South. The facility will reduce drinking water use of the new greenfield growth areas by about 50 per cent, or 15 ML, a day by 2030.

Microfiltration, ultraviolet radiation and chlorine disinfection will be incorporated into the treatment process to produce class A recycled water suitable for toilet flushing, garden watering, recreational irrigation and fire fighting.

Built and operated for three years by Earth Tech, the \$7 million plant, will be capable of producing 5 ML of recycled water per day.

The new plant will be an addition to the existing facility, which has been producing Class C recycled water

for construction work at Eynesbury, 12 kilometres south of Melton, and the irrigation of crops on farmland around Surbiton Park.

Western Water Chief Executive John Wilkinson said the ambitious project was on time and on track. "The class A plant is quite significant in terms of capital expenditure and will deliver major savings in drinking water," he said.

The project is one of a number of innovative water supply solutions being adopted by Western Water and the State Government to meet future growth. Mr Wilkinson said these initiatives were encapsulated in the Central Region Sustainable Water Strategy designed to integrate water resource management across

central Victoria.

"The project is among those being fast-tracked to protect water supplies," Mr Wilkinson said.

"Indeed, it represents the next phase in Western Water moving towards a sense of greater sustainability at a time when we are facing a range of considerable challenges, including climate change and strong urban growth."

The Class A project is strongly supported by the Victorian State Government, which has contributed AUD\$3.5 million from its Water Recycling Fund. The Eynesbury development joint venture also contributed to the project.

Earth Tech also designed and currently operates the Eastern Irrigation Scheme, which together with the new plant will not only address Melbourne's ongoing growth demands, but also the government's mandate to conserve water.

"The greater Melbourne area, like elsewhere in Australia, is facing a considerable challenge: how do they accommodate the water needs of a growing population when water supply is at nearly 30% of capacity," said Peter Everist, Earth Tech's Group General Manager for Global Water Projects and Products in Australia. "This new Class A Recycled Water Plant will help Western Water meet its water conservation goals and continue its strategy for integrated water resource management." •

For more information contact:
leif.ericson@earthtech.com.au

"...greater sustainability at a time when we are facing a range of considerable challenges"

Guidelines for the installation of rainwater and greywater systems

The Master Plumbers and Mechanical Services Association of Australia (MPMSAA) has recently been successful in obtaining funding through the Commonwealth Government of Australia - National Water Commission, for a project titled: Best Practice Guidelines for the Installation of Stormwater and Greywater.

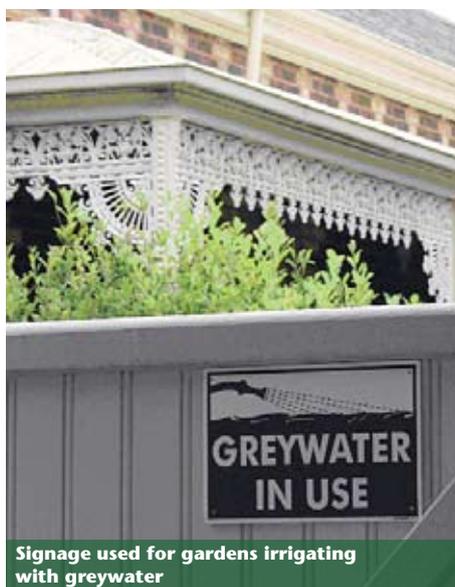
This project will develop best practice guidelines for the design and installation of urban greywater and stormwater systems. Existing codes, standards, technical solutions and reports at local, state and national level will be investigated and used as the basis for the development of these guidelines. The project will assist plumbing practitioners to correctly install greywater and stormwater systems.

As part of the project MPMSAA have established a steering committee with state and territory plumber regulators and peak development bodies including:

- Australian Local Government Association (ALGA)
- Urban Development Institute Australia
- Housing Industry Association (HIA)
- National Plumbing regulators forum (NPRF)
- Australian Rainwater Industry Development Group (ARID)
- Water Services Association of Australia
- National Water Commission – or representative
- Standards Australia
- Arris Pty Ltd – Dr Daryl Stevens – (Research Partner)

The objectives of the project are to:

1. Research and investigate existing materials (regulations, codes, standards, technical solutions and reports) at local, state and national levels in order to determine best practice models for urban greywater and stormwater use.
2. Develop a national handbook for the design and installation of urban greywater and rainwater re-use aimed at:



plumbing practitioners; local government health and environment officers; plumbing regulators; manufacturers of greywater and stormwater products; and households.

3. Revise/update HB-230 Rainwater tank design and installation handbook.

The expected outcomes of the project:

To provide plumbing practitioners with best practice guidelines and an increased capacity to identify, design and provide additional water resources for consumers to a nationally consistent standard. Also to provide clear installation and design guidance for urban greywater and stormwater systems. ●

Source: Green Plumbers
www.greenplumbers.com.au



The world's 'Greenest City' uses recycled water

What does it take to be named, or become, a "green" city?

Recently, the World Wildlife Fund (WWF) and the government of Abu Dhabi launched a "sustainability strategy" to create the "world's greenest city." Masdar City, as it will be known, will be the world's "first zero-carbon, zero-waste, car-free city," according to the "One Planet Living" program, (a global initiative launched by WWF and environmental consultancy BioRegional). WWF will work with officials of Masdar to "ensure the city meets standards of sustainability which include specific targets for the city's ecological footprint."

Electricity for the planned city, occupying a 6 square-kilometer area, will be generated by photovoltaic panels, while cooling will be provided via concentrated solar power. Water will be provided through a solar-powered desalination plant, with landscaping within the city and crops grown outside the city being irrigated with "grey water" and treated waste water produced by the city's water treatment plant. Construction of Masdar City is slated to start early this year.

The city is part of the Masdar Initiative, Abu Dhabi's "multi-faceted investment in the exploration, development and commercialisation of future energy sources and clean technology solutions." A model of Masdar City was unveiled on January 21 at the World Future Energy Summit in Abu Dhabi.

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The world's 'Greenest City' uses recycled water

Masdar City has already gained adherents, including no less than US President George Bush, who was briefed on the government's plans for the city during a visit. Gulf News reports that Bush was "impressed" by plans for the "world's greenest city." "I was amazed at the advanced state of the UAE and how the country is using its resources to develop alternative energy," the American president said, adding that "the whole world can learn what works and what does not in (Masdar)."

"An example of the paradigm shift"

Praising the city as a model society powered by clean technology, Bush said the city is "an opportunity to share this [clean] technology with the UAE," adding that he hoped his visit "will be an opportunity to work constructively with the UAE in all fields." Dr. Sultan Al Jaber, CEO of Masdar, said Bush was especially interested in the partnerships the UAE

had developed with businesses and academic institutions in the US.

Jean-Paul Jeanraud, director of WWF International's "One Planet Living initiative," noted: "Today Abu Dhabi is embarking on a journey to become the global capital of the renewable energy revolution. Abu Dhabi is the first hydrocarbon-producing nation to have taken such a significant step towards sustainable living.

"Masdar is an example of the paradigm shift that is needed, and the strategic vision of the Abu Dhabi government is a case study in global leadership. We hope that Masdar City will prove that sustainable living can be affordable and attractive in all aspects of human living--from businesses and manufacturing facilities to universities and private homes."



Al Jaber added: "Masdar City will question conventional patterns of urban development, and set new benchmarks for sustainability and environmentally friendly design--the students, faculty and businesses located in Masdar City will not only be able to witness innovation first-hand, but they will also participate in its development." •

Source: Rina Jimenez-David
Philippine Daily Inquirer

Gypsum injection used to improve recycled water quality

The Carmel Area Wastewater District (CAWD), in conjunction with the Pebble Beach Community Services District and the Pebble Beach Company, has announced the upgrade of their Tertiary Treatment Plant to include a micro-filtration and reverse osmosis (MF/RO) system. The 1.5 mega gallons per day plant is a collaborative project that delivers irrigation water to seven major Golf Clubs in Carmel, including Pebble Beach, Spy Glass and Cypress Point, three of the world's leading golf courses.

As part of the MF/RO upgrade, Wastewater Solutions was selected to install their proprietary gypsum injection system to improve effluent water chemistry by increasing EC (Electrical Conductivity) of a low-solute R.O./Tertiary water blend, and adding calcium as a critical micronutrient and soil conditioner. The addition of solution grade gypsum directly at the treatment plant allows all downstream users to enjoy higher quality water without the expense of treating at each location.

The CAWD had previously been utilizing "off-the-shelf" bulk handling equipment. However, they found that generic equipment was prone to frequent bridging and flow issues, erratic treatment rates and high maintenance.

The Aqua-Ject® calcium injection system is a maintenance-free, fully automated system, available to municipalities as part of a multi-year service arrangement with no upfront charge. Using state-of-the-art technology, the WSI system continuously monitors water flow and chemistry and adjusts the treatment rate, or 'dosage', automatically to maintain optimal irrigation water quality. Solution gypsum is all-natural, safe to handle, and adds no color or odor. •

Source: Randal Cecala Wastewater Solutions, Inc.
randc@wastewatersolutionsinc.com
P.O. Box 12529 Bakersfield, CA 93389
Phone 800-615-5575 Fax 800-615-8004



Wastewater Solutions' patented Aqua-Ject® Gypsum injection system, installed at the Carmel Area Wastewater District treatment facility- Carmel, California.

Bendigo Bank recycling through innovation

The new Bendigo Bank Headquarters will recycle its own water and consume less than half the energy of a typical office building.

Through the substantial ESD initiatives in its design, including: one of the first large-scale applications of under-floor air-conditioning in Australia; an innovative external screening design to the large north and west facades; solar reflective internal blinds; and double-glazed solar control low-E windows, Bendigo Bank's new head office has formally been recognised as one of the most environmentally friendly in Australia.

Its location in an extremely water-stressed region, made reducing the reliance on reticulated water a key design challenge for the building. Water-efficient fixtures and fittings and a recycling water plant, that will treat all black- and greywater to Grade A standard for toilet flushing, will ensure minimal use of potable water. Surplus recycled water will be distributed throughout the Bendigo area for community and garden use. Rainwater will also be collected from the roof area, filtered, stored and reused in the drip-fed irrigation system that supplies the landscaped gardens at the front of the building.

These initiatives for environmental sustainability are reflected in the projects 5-Star Green Star certified rating, which represents "Australian Excellence", awarded in October 2006.



Water recycling and efficiencies include:

- Specification of water efficient (AAA minimum) fittings for wash-hand basins, sinks, showers and toilets
- Installation of a recycling water treatment plant to treat both black- and greywater which provides treated Grade A water for use in toilet flushing
- Surplus treated water will be distributed for community and garden use throughout Bendigo, minimising discharge to the sewer
- More than 3.5 million liters of

drinking water per annum is estimated to be saved

- Water for water efficient landscape irrigation system sourced from rainwater
- No cooling towers installed to reduce potential use of potable water and eliminating the risk of Legionnaire's disease
- Sub-meters installed for all major water uses in the building linking all meters to the BMS to provide a leak detection system. ●

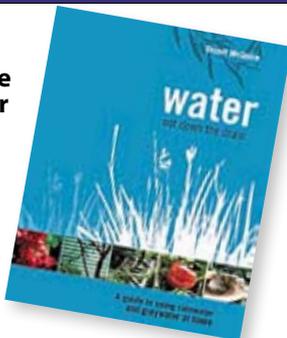
Source: www.bendigobank.com.au

GOOD READS and website links

Water: Not down the drain - A guide to using rainwater and greywater at home

By Stuart McQuire

It's time to think of other ways to secure water for the home. This book shows you how. *Water Not Down the Drain* is a comprehensive guide to sustainable water use around the home. With Australia experiencing one of its driest phases in history, everyone has to think about how they use the water available to them and find ways to



reduce their day-to-day water use. The good news is that with rainwater and greywater, people have more water available to them than they think.

To order: <http://shop.ata.org.au>

Interpreting soil test results: What do all the numbers mean?

Pam Hazelton University of Technology, Sydney (UTS), Brian Murphy NSW Department of Infrastructure, Natural Resources & Planning.

Interpreting Soil Test Results is a practical reference for those who need to interpret results from laboratory analysis of soil. It has a comprehensive listing of the soil properties relevant to most environmen-

tal and natural land resource issues and investigations.

The precursor to this book, *What Do All the Numbers Mean?*, known as The Numbers Book, was widely used and accepted for interpreting soil test results. This new edition has been completely updated and many sections have been expanded, particularly those on acid sulfate soils and soil salinity. It is a handy and straightforward guide to interpretation of the numbers associated with a wide range of soil tests.

Publisher: CSIRO PUBLISHING
Publication date: April 2007
Paperback - ISBN: 9780643092259 - www.publish.csiro.au



GOOD READS and website links

Builder's greywater guide: Installation of greywater systems in new construction and remodeling

Poor Richard's Press, Santa Maria, California

By Art Ludwig & Oasis Design, Santa Barbara, California

For the eco-conscious homeowner, water waste in the kitchen and bath is a fundamental concern when approaching a new build or remodeling project. But low-flow toilets and showerheads are just the tip of the iceberg in this growing green trend.

Art Ludwig, of Santa Barbara, CA-based Oasis Design, a firm that is a clearing-



house of information on sustainable living, has published this nuts-and-bolts guide for builders whose clients wish to install a greywater system in their kitchen or bath.

Micro- and Ultra-filtration performance specifications

Micro- and Ultra-filtration Performance Specifications are based on Microbial Removal AWWARF Report. AWWARF reports

are excellent, up-to-date scientific studies on water quality by top scientists.

Member price \$286 plus p&h.
bookshop@awa.asn.au

NWRI white paper, water 2010, available for download

NWRI's newest White Paper, *Water 2010: A "Near Sighted" Program of Water Resource Management Improvements for the Western United States* provides 10 low-cost, short-term action items that can be achieved within the next 3 years by western regions to help improve the reliability of water resources.

To download *Water 2010* visit www.nwri-usa.org

The science of water: 2nd Edition

Beginning with physical and chemical properties, microbiology, occurrence, prevalence, scarcity, behavior the chemistry (hydraulics) this text discusses sampling and water quality, bio-monitoring, pollution, testing and reuse.

bookshop@awa.asn.au



NEWS innovations & information

National

National waste water source management guideline

The Water Services Association of Australia (WSAA) has released a National Waste Water Source Management Guideline for public comment. The guideline has been in development for the past 2 years and is intended to be complimentary to the Australian Drinking Water and the National Water Recycling Guidelines. Comments should be made to grant.leslie@wsaa.asn.au

Source: www.wsaa.asn.au

Grey water use on the increase

More than half of Australian households use Greywater, with Victorians leading the way, according to a new report by the Australian Bureau of Statistics (ABS). Other findings include that the majority of Australian households are undertaking water saving activities.

Source: www.abs.gov.au

ABS finds national water saving

The ABS has also released Environmental Issues: People's Views and Practices, Mar 2007 (6 December 2007), which states that:

- grey water was being used by 55% of all Australian households;
- the majority of Australian households were actively participating in water saving activities;

- over 55% of all households were using at least one water efficient shower head, with 74% of new homes having water efficient shower heads installed;
- dual-flush toilets could be found in 81% of all households; and
- rainwater tanks could be found in 19% of all households.

Source: www.abs.gov.au

Water quality research Australia

Water Quality Research Australia has been established with 40 members representing state-owned utilities, regulators, the private sector and research institutions. Its first major project has begun, with \$2m (\$1m from the National Water Commission) to develop a bio-monitoring 'toolbox' for recycled water.

Source: www.waterquality.org.au

Victoria

Recycled water keeps Sandhurst green

A new recycled water pipeline at Sandhurst Club estate, near Cranbourne, has been turned on. It is estimated that 300 million liters of drinking water will be saved each year. Sandhurst Club estate, which consists of 600 homes, two golf courses

and public open spaces, has become the first Victorian suburb to be connected to a recycled water system. Mr Holding advised that the recycled water had been "treated to Class A standard in accordance with EPA (Environment Protection Agency) Victoria and Department of Human Service's requirements", and would be used for non-drinking purposes such as toilet flushing, garden watering and car washing. "Recycled water is not subject to the same restrictions as drinking water, allowing residents to water their gardens all year round", Mr Holding advised.

Source: Minister for Water – 1/12/07
www.dpc.vic.gov.au



New South Wales

\$7 Million waste water contract awarded

ABC News reports that the Tenterfield Shire Council in northern NSW has awarded a \$7 million contract to build the town's new waste water treatment plant to Kyogle-based company FE Marsh.

Source: ABC News - 3/1/2008
www.abc.net.au

ABC News: Council awards \$7m water treatment contract

Construction starts on Mount Kuring-gai sewerage scheme

Construction on the Mount Kuring-gai Industrial Estate Sewerage Scheme is underway. It will improve the health of the local waterways by replacing the On-Site Septic System with a modern reticulated sewerage system

Source: Sydney Water Media Release - 29/11/07
www.sydneywater.com.au

Disused railway tunnel used for water recycling scheme

Eighteen months after a water storage scheme for the disused railway tunnel that runs under Macquarie Street from St James station was first mooted, the State Government is studying the possibility of incorporating it into a water-recycling scheme centered on State Parliament House.

Source: Sydney Morning Herald
www.smh.com.au

Queensland

High-rise buildings save through recycling

Minister for Infrastructure and Planning, Paul Lucas, has announced that building code changes (introduced as of 1 January 2008) may see new office blocks "reduce water use by up to half". Mr Lucas advised that amendments to the Plumbing and Drainage Act 2002 No. 77 (Qld) and Queensland Development Code would allow new commercial buildings to use rainwater in toilets, and treat and reuse the greywater created through hand basin use. Mr Lucas advised that other measures introduced on 1 January 2008 included the requirement to "install individual water meters for most new buildings" and the "retro-fitting of water-efficient toilets and shower heads for houses undergoing major renovations".

Source: Minister for Infrastructure and Planning - 30/12/2007
<http://statements.cabinet.qld.gov.au>

Wujal Wujal sewage plant opens

Minister for Main Roads and Local Government, Warren Pitt, has officially opened a new sewage treatment plant that will service the remote Indigenous community of Wujal Wujal. The \$5.9 million plant "achieves an A-grade standard of wastewater, which is recycled as irrigation to a council-managed tree farm and to the Bloomfield River".

Source: Minister for Main Roads and Local Government - 30/11/07
<http://statements.cabinet.qld.gov.au>



Brisbane City Council to replace 20% of annual water usage by 2008

Brisbane City Council will replace 20% of current annual water usage by the end of 2008, primarily through the supply of

Proposed site for the RBC plant at Wujal Wujal

Recycled Water to industry, and through pressure and leakage management. Water engineers have identified designed and delivered infrastructure projects that have led to it exceeding its current State Government water supply target by 15ML/day.

Source: AWA News - 17/12/07

Pimpama Coomera recycled water master plan released

Gold Coast City Council has launched a new website and newsletter with information on the Pimpama Coomera Recycled Water Master Plan.

Gold Coast City Council
 Source: www.goldcoastcity.com.au

Consumption reduced for another week

South East Queenslanders have further reduced water usage themselves to 126 liters/person/day as dams continue to rise to 27.16% capacity and the state continues to experience heavy rains and storms.

Source: Queensland Water Commission - 18/1/2008
www.qwc.qld.gov.au



Western Australia

Public comment - Inquiry on competition in the water and wastewater services sector

The Economic Regulation Authority (ERA) has released a draft Inquiry on Competition in the Water and Wastewater Services Sector (3 December 2007) for public comment. The ERA advised that the draft report recommended that:

- a new body should be established to "identify, rank and procure new water sources that could be set up, owned and operated by the private sector";
- "a state-based third-party access regime should be implemented in WA; retail contestability was currently inappropriate for small customers but should be considered for large customers;
- on the Gnangara Mound, finalisation of the Statutory Water Management Plan and Gnangara Mound Sustainability Strategy is critical;
- there are synergies between the Corporation's bulk water operations and distribution functions, which indicate it may not be appropriate at this time to separate these functions; and
- individual members of irrigation cooperatives should be able to trade with others outside their area if they wish".

Source: ABC News - 3/12/07
www.abc.net.au

International

Zero 'pollution' tolerance Welsh Water vision

Welsh Water has unveiled plans to cut greenhouse gas emissions by at least 50%. The not-for-profit sewerage company has published its vision for the company 25 years in the future - with the goal of delivering the best possible value services for customers.

Source: Sion Barry, Western Mail - 2/11/07
<http://icwales.icnetwork.co.uk>

Australia

Sustainable irrigation alternatives – Urban and rural innovations: A Study Tour.

7 - 21 October 2008

Itinerary: Leaves Australia and visits United Arab Emirates, Israel and Spain.

Theme: Exploration of alternative water sources in the urban and rural context and alternative innovative irrigation technologies to supply the water to amenity and production horticulture.

The objectives are:

- To observe and explore water sourcing options identified and used by countries who have been managing severe limitation to water supplies for decades.
- To observe and discuss first-hand technology that might be appropriate for adoption by the Australian urban and rural irrigation industry to improve their businesses regarding water resource and efficient irrigation technology.
- To improve the understanding of overseas R&D and its relevance, encouraging irrigators/governments/industries to be more active in prioritising research in Australia.
- To establish and promote linkages between Australian irrigators/governments/industries and overseas industry members and researchers.
- To increase irrigators/government/industry knowledge base so as to reduce the inhibition to the use of new sustainable irrigation alternatives for urban and rural environments.

Contact Dr Daryl Stevens:
dstevens@arris.com.au
or phone 03 94211701



Lettuce harvesting at Werribee

Irrigation Dripline vs Spray - Field Day on growing lettuce with drip irrigation

7 February, Robbs Road, Werribee South, Victoria

Topics covered:

- Water and fertiliser management
- In-field infrastructure
- In-field monitoring
- Drip tube laying and retrieval
- Plant-soil-water relations
- Pump-shed infrastructure
- Results from Experiment 1
- Grower perspective
- DPI drip trials

For catering purposes and for more information contact Stephen Smolenaars:
spsmolenaars@arris.com.au
or phone 0418 950 721
www.recycledwater.com.au

Water Recycling - Maximise Plant Yields, Health and Quality, and Minimise Risks to the Environment

11-12 February, Sydney NSW

Learn about the benefits and hazards of irrigating with recycled water, the key hazards found in recycled water, and how to determine if the water quality is appropriate for the intended use.

Is your recycled water fit for the intended purpose from an agronomic and environmental perspective.

For more information see:
www.iwes.com.au

IWES Sydney 2008

11 - 15 February, Sydney NSW

Twelve courses in water and wastewater treatment, hydraulics, environmental management, and biosolids management.

Exciting new courses include:

- Australian Drinking Water Guidelines
- Corrosion and Odour Management in Sewers
- Principles of Hydraulic Engineering and Open Channel Flow
- Carbon Neutral Wastewater Treatment

For more information see:
www.iwes.com.au

Super solutions and extreme challenges... YWP regional event

22 - 23 February, Pipers by the Lake Function Centre, Ballarat

With thanks to our sponsors we are able to offer this 2-day event at a heavily subsidised rate. For members in Ballarat and immediate surrounds there is a reduced rate excluding transport, accommodation & breakfast.

For more information see:
www.awa.asn.au

2008 Australasian Water & Sewer Systems Modeling Seminar

28 - 29 April, Gold Coast

Registrations Now Open. Newest technological advances, solutions and practices in geospatial infrastructure modeling, management and optimisation.

For more information see:
www.mwhsoft.com

9th Biennial Irrigation Australia Conference

20 - 22 May, Melbourne Exhibition and Conference Centre

The theme of the conference is "Share the Water, Share the Benefits" and includes streams on Technology to improve efficiency, water policy and reform, new water for irrigation, improving on-farm water management and social and community benefits.

The HWI will play an important role at the conference and will be conducting a workshop on managing during drought, featuring drought case studies. Confirmation of workshops and presentations will be provided soon.

For more information see:
www.irrigationaustralia.com.au





EVENTS diary dates

International

5th Everything about Water Expo 2008 on Water & Wastewater Management

31 January - 2 February, Bombay Exhibition Centre Mumbai, India

The 5th edition of our Everything about Water Expo in 2008 will be even bigger, covering more sectors, attracting greater participation and becoming an even bigger destination for the water industry, spread over 120,000 ft²:

- More than 300 exhibitors will showcase their products and services
- More than 12,500 trade visitors will come from across the globe
- 500 conference delegates are expected to be at this mega event

For more information see:
www.eawater.com

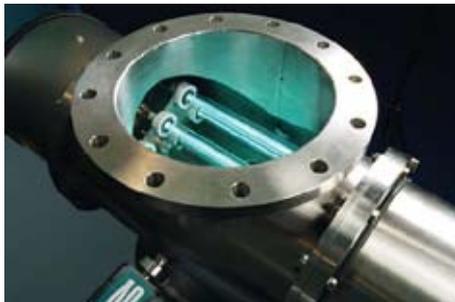


UV for Wastewater and Reuse Workshop

Tuesday, March 18, 8:00 am to 5:00 pm, Orlando, Florida

The use of ultraviolet (UV) light to disinfect wastewater and reclaimed water has evolved in the last two decades, proving to be an effective and reliable treatment technology for many water-borne pathogens, such as bacteria, viruses and protozoa.

For more information see:
www.nwri-usa.org



12th Annual Water Reuse and Desalination Research Conference

5 - 6 May, The Westin Tabor Center, Denver, Colorado

The Foundation's Research Conference is dedicated to showcasing the latest results of "cutting-edge" research on water reuse and desalination. This is the conference you need to attend to learn what will likely become the mainstream, accepted technologies in 5-10 years.

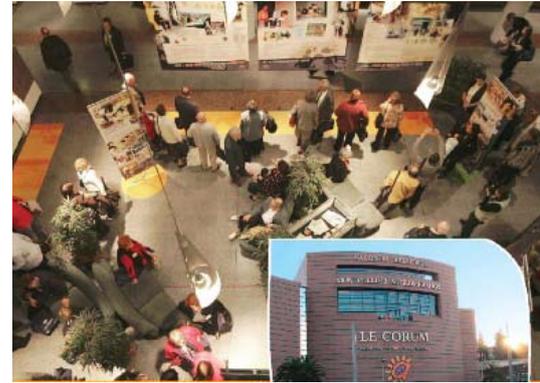
For more information see:
www.watereuse.org

World Water Congress and Exhibition

7 - 12 September, Vienna

Association members span the continuum between research and practice and cover all facets of the water cycle, from the science and management of drinking water, wastewater and storm water to the conservation of water resources throughout the world.

For more information see:
www.iwa2008vienna.org



13th World Water Congress - Global Changes & Water Resources

1 - 4 September, Montpellier, France

The objective of the XIIIth World Water Congress is to enhance the world's knowledge and raise global consciousness of the impact of global changes on water resources. The Congress will bring together wide-interest participation, exhibitions and scientific communications about our planet's water resources. This Congress will represent an important global meeting point for open dialogue between public and private partners, between users and decision makers and between developing, emerging and developed countries. In order to contribute to this global reflection and action, the Congress will organise numerous debates, presentations and exhibitions among key water stakeholders.

For more information see:
<http://wwc2008.msem.univ-montp2.fr>