



AWA National Awards
australian water association 2011

**AWA NATIONAL AWARDS
WINNERS AND FINALISTS 2011**

INDIVIDUAL AWARDS
ORGANISATIONAL AWARDS
STUDENT AWARDS

Welcome from the CEO	02
2011 Winners and Finalists	03
Individual Awards	03
AWA Honorary Life Membership.....	03
AWA Water Professional of the Year.....	04
AWA Water Industry Woman of the Year.....	06
AWA Young Water Professional of the Year.....	08
Organisational Awards	10
AWA Infrastructure Project Innovation Award.....	10
AWA Program Innovation Award.....	12
Water Industry Safety Excellence Award.....	14
Student awards	16
Australian Stockholm Junior Water Prize.....	16
National Undergraduate Water Prize.....	17
Awards for Papers and Poster Presentations	18
AWA National Awards Summary	20
Nominations for the 2012 Awards Program	22



Congratulations to all the finalists in the 2011 AWA National Water Awards. In particular, I would like to extend special congratulations to the winners who represent the cream of Australia's water sector.

This year there have been many outstanding nominations, evidence of the talent and the important and exciting achievements in our sector over the past 12 months.

Australia is a world leader in water management. Our sector is recognised globally for its skills, expertise and knowledge. It is therefore only right that we take every opportunity to recognise and celebrate the outstanding achievements of the Australian water industry – our people, organisations, projects and programs.

It is worth noting that, in addition to awarding established and experienced industry players, the AWA awards program acknowledges emerging talent in the sector. The winners and finalists in the young water professional category and the student awards suggest that the future of the Australian water sector is in good hands.

The AWA awards program is now approaching its 50th year and, I am pleased to say, is getting better with age. The awards program offers a great opportunity to showcase some of the great work that is being undertaken by the Australian water sector and share best practice. I encourage you to participate and to find out more about the AWA awards held at both a state and national level.

Thank you to our award sponsors. Support from sponsors is crucial to help AWA manage and improve the awards program.

Finally, I would like to thank the award judges. Scrutinising and assessing each award entry requires a considerable time commitment so I thank the judges for their efforts.

Tom Mollenkopf
CEO
Australian Water Association

AWA Honorary Life Membership

This award is given in honour of members who, through long and distinguished service, have made a major contribution to the Association and to the profile of the water industry.

Winner: Roderick Lehmann



Rod Lehmann has been an extremely active and long serving member of AWA since 1974, holding committee positions for the NSW Branch and QLD Branch where he was President in 1988/89.

Rod was on AWA's Board for eight years and is a past National President. During his term as President, Rod oversaw the restructuring of the Association from a state-focused and managed association to a nationally focused and managed association. The restructure involved the development of a new constitution and Board of Directors and the development of new governance arrangements.

He has also chaired two major conferences for AWA – Ozwater in 1993 and the Water Tech Conference in 1998.

Rod has 40 years experience working for consultants and water authorities in Australia and overseas in water and wastewater engineering. For most of his working life Rod has held senior management roles for water businesses and on major projects. This includes management of the Queensland operations of water businesses for leading consultants SKM, KBR and CH2M HILL and representation (as CH2M HILL's representative) on the Alliance Leadership Group (ALG) for three alliances in South East Queensland. Rod is currently the Director of Water Strategies Pty Ltd. Rod has been an inspiration to his staff and is a team builder wherever he has been employed.

Rod's work and support for AWA continues today through advice he provides to Branches and the Board, his invaluable involvement with awards and on the QLD Branch Strategy and Planning Committee.

Rod Lehmann has been recognised as a committed, altruistic and active member of the Australian Water Association. This award recognises Rod's sustained and selfless commitment to AWA which continues to this day.

AWA Water Professional of the Year (given in honour of Chris Davis)

This award honours individuals who have displayed a sustained passion and continued commitment to the water industry, and who have demonstrated outstanding leadership and influence in the water sector.

Winner: Peter Dillon – CSIRO Land and Water (SA)



Dr Peter Dillon is a civil engineer who has over 30 years of commitment to research and development aimed at addressing global water scarcity and promoting the productive use of recycled water.

His contributions to wastewater recycling have directly resulted in Adelaide leading the productive use of recycled water in Australia.

He is also recognised worldwide for his research and advocacy of sustainable groundwater development and groundwater resource protection.

Bringing these two interests together, Dr Dillon is recognised as perhaps the world's foremost expert in Managed Aquifer Recharge, initiating and leading innovative projects that utilise aquifers for recycling stormwater and wastewater. This work has recently culminated through the publication of the Australian Guidelines for Water Recycling: Managed Aquifer Recharge, a key part of Australia's National Water Quality Management Strategy. Dr Dillon is the founding Chair of the International Association of Hydrogeologists Commission on Managed Aquifer Recharge.

Dr Dillon leads the Recycling and Diversified Supply Research Stream within the Urban Water Theme of CSIRO's Water for a Healthy Country National Research Flagship. He is also a member of the scientific planning committee for the United Nations Educational, Scientific and Cultural Organisation's (UNESCO) 7th International Hydrological Programme.

Dr Dillon has led or been a keynote speaker at international symposiums in developing countries, conducted training workshops on Managed Aquifer Recharge in 16 countries. He is currently facilitating a UNESCO network on the use of Managed Aquifer Recharge for safe drinking water supply in support of the United Nations Millennium Development goal.

The AWA Water Professional of the Year award is proudly sponsored by



FINALISTS

Owen Karsen – Sydney Water Corporation (NSW)



Owen Karsen is one of the increasingly rare professionals who have spent their full career with one large organisation. In his case with Sydney Water. His experience extends to maintenance, operations and asset planning and an understanding of the range of systems & facilities required to service a large city.

He led Sydney Water's work to upgrade 28 STP's in the Hawkesbury – Nepean valley to advanced levels as part of an inter agency total catchment management initiative. Plants in particularly sensitive areas were decommissioned and recycling schemes established where viable. A key part of the program was the intensive, regular liaison with the range of stakeholders, including operators, community, regulators & government, and a wide variety of engineering & construction consortiums.

Subsequently, he took on the role of Sydney Water's Asset Planning Manager, with an emphasis on sustainable asset planning for Sydney's burgeoning urban growth. Owen left Sydney Water a few months ago, with 2011 planned as a "sabbatical" year.

Wayne Prangnell – Shire of Augusta Margaret River (WA)



Wayne has 17 years experience in planning, design, project management and asset management of civil infrastructure projects. Currently Wayne is Project Director for \$15 million Shire of Augusta Margaret River Civic and Administration Centre and \$2.6 million Margaret River Water Recycling Project.

He has experience in strategic planning, organisational systems and human resource management in a leadership role in local government in Western Australia. Wayne also has experience in Local Governments in Western Australia, New South Wales and Queensland, as a consulting engineer delivering land development, mining and water infrastructure projects and, with the Water Corporation, in planning, project management and asset management.

Wayne has successfully led the introduction of Water Sensitive Urban Design in the Shire of Augusta Margaret River.

AWA Water Industry Woman of the Year (given in honour of Nancy Millis)

To provide recognition of significant projects, products, initiatives, achievements and/or services of women within the water industry.



Winner: Dr Christobel Ferguson – ALS Environmental (NSW)

Dr Ferguson is the Group Manager Water Sciences for ALS Environmental. She manages a team of scientists and engineers that provide technical advice on water resource management and aquatic ecology to clients in the water, environment and mining industries.

She has more than 20 years experience managing environmental research projects and has presented and published widely on water related microbiology, and in particular pathogen fate, transport and modelling.

Her publications are often cited in Australian and international literature and are a valuable contribution to the global water knowledge base.

Dr Ferguson is an advocate for Young Water Professionals and contributed to the organisation of the first two AWA YWP Conferences in Australia. She is a strong supporter of young women entering the water industry and encourages them to take on leadership roles within AWA. Christobel was a board member of the Australian Water Association from 2005 to 2009 and is currently a Co-Convenor of the AWA Catchment Management Specialist Network.

Christobel previously held an Adjunct position at the University of NSW and is now an Adjunct Research Fellow at the Fenner School of Environment and Society at the Australian National University. Through these positions Dr Ferguson has supervised PhD, Masters and Undergraduate students, assisting them to develop their technical skills.

She is currently nominated for the position of Vice Chair for the Health Related Water Microbiology group of the International Water Association of which she has been a member since 2004.

The AWA Water Industry Woman of the Year Award is proudly sponsored by



FINALISTS

Anna West – Kellogg Brown & Root (QLD)



Since joining Kellogg Brown & Root Pty Ltd (KBR) in 1998 Anna West has taken on a number of significant roles in the Queensland Water Industry.

Her current position is Industry Lead – Water Engineering and Resource Group Leader – Water Engineering Queensland where she is responsible for a dynamic team of 45 water professionals.

She is also the Technical Leader on the Northern Pipeline Interconnector Stage 2 for the Northern Network Alliance. Her ideas on this alliance have won her multiple innovation awards.

During her career, Anna has been involved in a variety of water and wastewater projects with a focus on municipal water engineering. Her career highlights to date include water resource assessment on the Nathan Dam, secondments to Gold Coast Water (now Allconnex) and Fitzroy River Water, and the development of the Beenleigh Sewerage Master Plan.

Anna was featured in the Queensland Government's "Women in hard hats" program and encourages the contribution women can make to a career in water.

Carla Boehl – Rio Tinto (WA)



During the last four years Carla has served the Australian Water Industry at Townsville Water (Queensland) as Senior Civil Design Engineer and WA's Water Corporation as Supervising Engineer for Strategic Asset Management.

She has written Asset Class Plans for various groups of assets and undertaken detailed strategic asset management planning to minimise life cycle costs of assets whilst delivering agreed levels of service.

Her first degree is in Civil Engineering (University of Porto in Portugal), and her highest academic achievement is her Doctorate in Engineering from the University of Stuttgart in Germany where she developed a Knowledge Based Decision Support System for PPPs in Water Utilities.

Previous to her PhD she completed a Master of Science in Water Resources Engineering and Management.

AWA Young Water Professional of the Year

This award recognises young water professionals who have had outstanding career achievements to date and who have the potential to play a large and influential role in the water industry.



Winner: Josh Byrne – Josh Byrne & Associates (WA)

Josh Byrne is recognised as a national leader in the demonstration and communication of urban water management and sustainable landscaping.

Josh Byrne's passion and effectiveness for raising community awareness of the importance of water conservation is demonstrated through his extensive media, research and consultancy work.

As a presenter on the ABC's Gardening Australia television program for the past eight years, Josh has demonstrated practical ways to create productive and water efficient gardens to a national audience. This message has also been communicated through extensive print media articles and his book 'The Green Gardener'.

He is the Ambassador for the WA State Government's Living Smart Household Sustainability Program, Patron for Sustainable Gardening Australia (Western Australia), Patron for Organic Association of WA (Western Australia) and Patron for the Conservation Council (Western Australia). He has also recently been appointed as an Ambassador for the WA State Government's Nature Play initiative, and the national Smart Approved WaterMark program.

Josh is an Adjunct Lecturer with the School of Environmental Science at Murdoch University. Josh always inspires students, because of his vision and conviction about improving the environment particularly in the wise use of water for domestic and landscaping purposes. Josh has also contributed to professional short courses conducted at Murdoch University in Water Conservation and Water Auditing. He is also completing a PhD at Murdoch University examining the effectiveness of greywater reuse and rainwater harvesting for meeting landscape irrigation needs.

Josh is the Director and principal consultant of Josh Byrne & Associates, an environmental and landscape design and communications company, based in Western Australia.



Highly Commended: Kate Miles – AECOM (NSW)

Kate has eight years experience in the water, project management and environment industries in the public and private sectors.

She holds Bachelor degrees in Chemical Engineering and Mathematics from the University of Newcastle, as well as a Master of Engineering Management from the University of Technology Sydney.

Working as a Principal Engineer in AECOM's Water and Infrastructure Services group in Sydney, Kate leads the NSW Water Policy & Planning Team. Her recent work includes advising the federal government on regional water policy reform, and planning the future water supplies for metropolitan and regional communities.

Prior to joining AECOM, Kate worked with the NSW government, delivering water solutions to regional water utilities. She was recognised when she won the Director General's Award for Young Achiever of the Year.

Kate is active in the AWA, having been involved with the YWPs for over three years, including past Chair of the NSW YWPs and the current National Representative for NSW. She is also Co-convenor of the AWA's Water Policy & Law Specialist Network.

Kate's proudest contribution to the water industry has been her proposal to the AWA for a free student subscription; an initiative to raise awareness of the water industry in universities, introducing potential young water professionals to our industry.

FINALISTS

Congratulations to the remaining finalists of the AWA Young Water Professional of the Year:

- **Chris Hare** – ACTEW Corporation (ACT)
- **Benjamin Hall** – City of Onkaparinga (SA)
- **Matthew Brannock** – Worley Parsons Services (QLD)
- **Claire Dixon** – GHD (VIC)

AWA Infrastructure Project Innovation Award

This award recognises significant and innovative infrastructure projects and initiatives within the water industry.

Winner: Fortescue Metals Group

Project: Cloudbreak Managed Aquifer Recharge (MAR) Scheme (WA)



Sensitive and complex groundwater systems are often the only viable and reliable water source in large areas of the Pilbara, WA. Effective management of groundwater is both integral to the success of the mining operation and critical to social and environmental sustainability.

Fortescue Metals Group has implemented an innovative Managed

Aquifer Recharge (MAR) approach at Cloudbreak Mine, one of the largest mines of its type in the Pilbara region, WA. This approach both mitigates environmental impacts related to surface discharge and dewatering drawdown, and conserves brackish water resources for future mine water supply.

The Scheme assets involve a very large and complex water abstraction, distribution and injection system. The current scheme comprises over 200 abstraction bores, ten in-pit sumps, 200 kilometres of pipeline, six major transfer or settlement ponds, 100 brackish injection bores and 20 saline injection bores.

The infrastructure has developed since August 2008 to the current 25GL per year capacity making it one of the largest and most complex MAR Schemes in Australia. The scheme is also the first of its kind in a variable density groundwater setting and within a landscape with unique cultural and environmental value.

The scheme is providing an opportunity for progressing scientific understanding and for developing applied water management skills on a large scale water resource management challenge.

Indigenous Australians currently comprise 20 per cent of the Water Management team at Cloudbreak.

The AWA Infrastructure Project Innovation Award is proudly sponsored by



Highly commended: South Australia Water Corporation, United Water International Pty Ltd, Jeffries Group, Kellogg Brown & Root



Project: Christies Beach Biosolids Dewatering and Reuse Project (SA)

After nearly 40 years of operation, the Christies Beach wastewater treatment plant required a major upgrade to increase its treatment capacity and manage community issues regarding odour emissions.

The Joint Project Team of South Australian Water Corporation (SA Water), United Water International Pty Ltd (United Water) and project partner, Kellogg Brown & Root Pty Ltd (KBR) delivered an innovation solution that maximises the potential for biosolids reuse and provides long-term benefits to the environment and community.

The \$23.9 million Christies Beach Biosolids Dewatering and Reuse Project employs advanced technologies and practices to address community concerns regarding biosolids odours in urban areas.

In addition a private industry agreement for biosolids reuse has led to the production of a high-grade composted product suitable for sustainable commercial re-use soil conditioning, and an organic augmentation product for use in top dressing for parks and gardens.

FINALISTS

Congratulations to the remaining finalists of the AWA Infrastructure Project Innovation Award.

- **SewerFix Wet Weather Alliance** – Wattle Street Sewer Separation Project (NSW)
- **Clarence Valley Council, Coffs Harbour City Council** – Clarence Valley & Coffs Harbour Regional Water Supply (NSW)
- **Atech Group, ActewAGL, ACTEW Corporation** – The use of partial top-down destratification to optimise the performance of water supply reservoirs in the Canberra region (ACT)
- **AECOM, Toowoomba Pipeline Alliance** – The Toowoomba Pipeline (QLD)
- **East Gippsland Region Water Corporation, AECOM** – A Water Security Solution for East Gippsland: Woodglen Water Treatment Plant (VIC)

AWA Program Innovation Award

This award recognises significant and innovative environmental or sustainability programs within the water industry.

Winner: SEQ Healthy Waterways Partnership



Project: Water by Design (QLD)

Over the past two years, the Water by Design program of the South East Queensland Healthy Waterways Partnership has established itself as the leading program of its kind in Australia.

The Partnership is a unique collaboration between government, industry, researchers and the community.

The partnership has established a reputation for working collaboratively with stakeholders and for delivering high quality products and services to advance sustainable urban water management in the SEQ Region.

Water by Design builds the capacity of the water and urban development sectors to help successfully implement sustainable urban water management by:

- Publishing best practice guidelines, manuals and design resources
- Delivering training courses and seminars, and bus tours of leading projects
- Acting as a bridging organisation and facilitating reforms to organisational practices and processes
- Contributing to the development and advancement of regulatory reforms such as State Planning Policies
- Promoting the use of incentives and market based instruments

Its unique organisational structure has allowed the program to influence and develop policy at State level while providing hands-on training to designers, assessing authorities, construction and operational professionals.

The Partnership developed and implemented the South East Queensland Regional Water Quality Management Strategy (2001) and its successor, the South East Queensland Healthy Waterways Strategy 2007–2012 (2008).

The AWA Program Innovation Award is proudly sponsored by



Highly commended: ACTEW Corporation

Project: Electronic Water Signage in the ACT (ACT)



Anxiety levels in the nation's capital were running high in 2007 following a long period of extreme drought, fast dwindling water storages and an imminent ban on all outside use of water.

During this time there was great public demand for immediate and frequent information.

ACTEW Corporation, the ACT's water utility, partnered with the ACT Government to install electronic variable roadside signs on all main arterial roads across Canberra. The signs delivered daily information on water storage and usage levels directly to residents as they

travelled to and from their homes, workplace offices and schools each day.

The initiative, part of ACTEW's larger campaign to highlight the importance of water conservation, proved to be very effective. The public's need for information was met and ACTEW's water conservation messages were delivered directly to the target audience. The signs helped to keep water issues high on the community agenda, even after some rain led to increases in dam levels and the threat of higher restrictions subsided.

This was the first time electronic variable roadside signs were used in Australia to manage a community issue beyond roads and traffic.

FINALISTS

Congratulations to the remaining finalists of the AWA Program Innovation Award

- **Sydney Catchment Authority** – The Tallowa Dam Environmental Flows and Fishway Project (NSW)
- **Water Infrastructure Group, SA Water** – Virginia Pipeline Scheme (SA)
- **WA Water Corporation** – Margaret River Water Efficiency Program (WA)
- **South East Water** – South East Water Industrial Ecology Program (VIC)

Water Industry Safety Excellence Award

This award acknowledges outstanding initiative and team contributions in considering and playing an active part in the area of safety improvement and injury prevention across the entire water industry.

Winner: Sydney Water, Bovis Lend Lease, CLM Infrastructure, Veolia Water Network Service



Project: NetWorks Alliance

NetWorks Alliance is an innovative initiative which operates in a unique, reciprocal "Relationship Contract" with its partners, Sydney Water, Lend Lease, CLM Infrastructure and Veolia Water Network Services. The NetWorks Alliance partners are involved in delivering a 7 year program of work valued at over \$900 million.

Projects include water and trunk mains renewals, sewer renewals, aqueduct and bridge refurbishments, condition assessments, a major recycled water project and a complex program

of water pressure regulation. The NetWorks Alliance Team is considered a "one-stop shop" for delivering all aspects of these key projects in partnership with Sydney Water.

In the first year of the water mains renewal program, NetWorks Alliance was faced with the potential for the presence of live electricity or electrical currents on the water pipes. In order to address the issue of neutral integrity faults NetWorks Alliance adopted a multifaceted approach that has evolved over the course of the project.

The alliance developed "Plum-Guard", which is an innovative and unique mechanism allowing a non-electrician to be able to reliably test if dangerous voltage is present on a water main. The benefits of using Plum-Guard are significant. From a safety perspective, it will mean crews are not exposed to an unsafe voltage on the water main.

NetWorks Alliance is fully committed to an "incident and injury free" workplace culture, which is inherently embedded in the way that all works are carried out.

Supported by



Highly Commended: Water Infrastructure Group

Project: NSOOS Gore Creek and Burns Bay Aquaduct Rehabilitation Project



The project involved the internal structural rehabilitation and lining of two of Sydney Water's iconic and federal listed heritage structures, the Burns Bay and Gore Creek Aqueducts, located on the Sydney Harbour foreshore.

The key safety challenge for the project team was working in confined spaces and live sewage flow. This project has been a pioneering alliance project in the sewer rehabilitation industry, which itself is perhaps the highest risk sector of the water industry.

From the onset of the project, safety has been the highest priority for all parties (Sydney Water, SWWA, SAS-TTI and WI Group) involved. This priority was reflected during the execution of the project through several design and execution risk workshops, increased supervision, audits and education. By following the hierarchy of controls many safety hazards were eliminated or reduced by substitution, engineering, administration, behaviour, or as last resort personnel protective equipment. This approach led to revolutionary techniques involving:

- working in confined space
- access and working of heights
- working from platforms in live sewage flow conditions
- sewage flow control and management
- ventilation, odour control of toxic sewage gases and dust suppression
- engineering controls for the use of ultra high pressure water blasting, shotcreting and spraying epoxy
- repair of the expansion joints

FINALISTS

Congratulations to the remaining finalists of the Water Industry Safety Excellence Award

- **SA Water** – I Feel Better Now - SA Water's Health & Wellbeing Program
- **Sydney Water** – The Water Delivery Alliance - Pipe Laying Through A Lead Risk Environment
- **City West Water** – City West Water Manhole Safety Grate
- **Central Highlands Water, JointAction Group Pty Ltd** – CHW JointAction Musculoskeletal Injury Prevention Program

Australian Stockholm Junior Water Prize

Winner: Mathuja Bavanendrakumar, Queensland Academy for Health Sciences



Eutrophication of Waterways from Golf Course Runoff

This study investigates whether phosphate runoff from golf courses contributes to eutrophication in adjacent waterbodies.

Seven golf courses with internal lakes were randomly selected on the Gold Coast, and for each, a waterbody in a 1km radius was also selected. Three water samples were taken from each of these 14 waterbodies, and were tested for phosphate concentration as well as algal growth. Results showed all internal lakes in the golf courses and adjacent natural waterbodies tested had eutrophication, indicating moderate to high risk of algal blooms. Five out of seven lakes within golf course grounds also had concentrations of phosphate exceeding the 0.025ppm threshold, supporting the hypothesis. Furthermore, it was found that three out of seven of the adjacent waterbodies also had excessive phosphate concentrations.

It was concluded that it is likely that runoff from golf courses contributes to the phosphate eutrophication of natural waterbodies. As such recommendations can be made to golf courses such as switching to the use of low phosphate fertilisers, or an introduction of a water treatment system or reed bed.

This project method could be used in order to measure phosphates in other waterways, and could be used to help identify other types of point source pollution.

The Australian Stockholm Junior Water Prize is proudly sponsored by
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FINALISTS

Congratulations to the remaining finalists of the Australian Stockholm Junior Water Prize.

- **Tanvi Srinivasan** – Beaded Glasswort as an in-situ soil salinity bio-indicator
- **Jordan Chueh** – Impact of Increased Salinity on *Emiliana huxelyi* ability to Sequester atmospheric Carbon

National Undergraduate Water Prize

This award aims to encourage and reward students for excellence in the field of water studies and research, and provides a forum for students to display their academic excellence and research findings to future employees, clients and the water industry.

At the time of printing the winner was not yet known as the finalists in 2011, representing South Australia, Western Australia and the Australian Capital Territory, presented their papers as part of the Ozwater'11 conference program which determined the winner.

FINALISTS

Chris Browne, Australian National University (ACT)



Developing Transfer: Improving Household Water Supply in Rural Cambodia

Clean water is requisite for life. In locations where no centralised water system exists, household-level ceramic filtration is utilised to access water free of pathogens. This technology is both low-cost and simple to manufacture locally, making it an ideal candidate technology to deliver clean water in developing countries. Despite this, the innovation in the field experiences disuse over a short time interval. This paper asserts this disuse is a breakdown of technology transfer, and provides a framework for improving usage rates and in turn the health of its users.

Tariq Laattoe, Flinders University (SA)



Salinisation of Coastal Aquifers Under the Current Sea Level Rise Regime

Coastal aquifers currently utilised for freshwater resources are vulnerable to salinisation from seawater intrusion (SWI) as the landward migration of the freshwater-seawater interface increases, in response to the rising oceans. Recent studies have examined the extents, rates and timescales associated with sea level rise (SLR) induced SWI but neglected to include the effects of transgression. Numerical models in two-dimensional cross section, developed with the variable-density modelling code FEFLOW, are used to examine multiple SWI scenarios, which include transgressing coastlines. The results imply that coastal groundwater models which exclude the effects of transgression, may in fact be greatly underestimating future rates of seawater intrusion.

Alice Drummond, University of Western Australia (WA)



Design & Cost-effectiveness of Infiltration Galleries at Perry Lakes

Regional groundwater levels have been declining across Perth due to reduced rainfall and increased groundwater extraction, resulting in loss of lakes and wetlands. A new urban wetland management option using treated wastewater to replenish drying wetland was investigated, with Perry Lakes as a case study. A range of viable managed aquifer recharge designs determined through site investigation and groundwater modeling are presented. The recommended design options for Perry Lakes required a compromise between the desired lake water level, environmental risks and financial costs.

The Undergraduate Water Prize is proudly sponsored by



AWA Award for Best Ozwater Paper *(given in honour of Michael Flynn)*

This award recognises the author(s) of the best paper at the annual Ozwater conference and exhibition. The best Ozwater paper is judged on both the quality of the paper and the quality of the oral presentation of the paper.

Below are the top scoring Papers at Ozwater'11, listed alphabetically by author surname. The winner will be judged at Ozwater'11 and awarded at the Closing Ceremony.

Michael Clarke, SMEC Australia

Improving the health of aquatic systems through effective carp control

Noel Dow, Victoria University

Membrane distillation of industrial wastewater

Lionel Ho, SA Water Corporation

Monitoring the performance of gac filters for the treatment of River Murray water

Peter Hobson, Australian Water Quality Centre

Evaluation of novel methods for control of cyanobacteria in reservoirs

Daniel Hoefel, South Australian Water Corporation

Culture-independent microbiological approaches to investigate an unstable chloraminated drinking water system

Kate Miles, Aecom

Reforming water – ensuring our regional water quality and security

Declan Page, CSIRO Land and Water

Applying the mar guidelines for water recycling via aquifers

Luke Toombes, Aurecon Australia Pty Ltd

Design of a cascade dropshaft for Rosedale wwtp

Xiao-Jian (XJ) Wang, SA Water

Recycled and potable water consumptions at Mawson lakes dual reticulation water supply system

Mark Wilson, Allconnex Water

Challenges to guarantee class a+ recycled water production at the Pimpama recycled water treatment plant: uv transmissivity

Robert Wilson, Kellogg Brown & Root Pty Ltd

Water hammer modeling and shutdown testing of the delivery pipeline for the Sydney desalination plant

AWA Award for Best Ozwater Poster *(given in honour of Michael Flynn)*

This award recognises the author(s) of the best e-poster at the annual Ozwater conference and exhibition.

Below are the top scoring Posters at Ozwater'11, listed alphabetically by author surname. The winner will be judged at Ozwater'11 and awarded at the Closing Ceremony.

Phil De Groot, Trility

Management of a failing smbr wastewater process. An operator's perspective

Linhua Fan, RMIT University

Detection of microcystin-Lr in lagoon-treated water by abraxix strip test

Tim Grosser, Trility

Agnes Intergrated Water Project - Lessons Learnt

Hans Kieft, Nalco Australia Pty Ltd

The use of chemistry generally regarded as safe (gras) to improve resource recovery from abattoir trade wastewater

Tsz Kwan Kwok, RMIT University

Assessing the effect of surfactants on the performance of activated sludge using sequencing batch reactors

Mike McCoy, Better Technical Options

Membrane bioreactors – experiences from a small, remote application with a seasonal tourist population

Adam Medlock, Trility

Management of organic and inorganic fouling of RO membranes at the Yabulu wrf

Suzanne Nuroo, Veolia Water Australia

Reservoir profile monitoring for management of raw water quality risk

Jonathan Orr, GHD Pty Ltd

Unconventional sewer servicing of new development around Greenvale reservoir

Sabrina Woon, RMIT University

Biogas production potential from meat processing plant

Feifei Zheng, School of Civil, Environmental and Mining Engineering, University Of Adelaide

Optimal rehabilitation for water distribution systems with large numbers of pipes using genetic algorithms

AWA National Awards Summary and Eligibility

INDIVIDUAL AWARDS

Award name	Summary	Eligibility
AWA Award for Exceptional Service	Awarded to an individual member of AWA in recognition of their exceptional service to the Association	Individual AWA members
Life Membership	Given to honour AWA members who, through long and distinguished service, have made a major contribution to the Association and to the profile of the water industry.	Members with a minimum of 10 years service to the AWA
AWA Water Professional of the Year Award (Given in honour of Chris Davis)	To honour individuals who have displayed a sustained passion and continued commitment to the water industry, and who have demonstrated outstanding leadership and influence in the water sector.	Open to all individuals working in, or recently retired from the water industry.
AWA Water Industry Woman of the Year Award (Given in honour of Nancy Millis)	To provide recognition of significant projects, products, initiatives, achievements and/or services of women within the water industry.	Open to all women working in the water industry.
AWA Young Water Professional of the Year Award	This award recognises young water professionals who have had outstanding career achievements to date.	AWA members under 35 years of age who have the potential to play a large and influential role in the water industry in the future.

ORGANISATIONAL AWARDS

AWA Infrastructure Project Innovation	To provide recognition of significant and innovative infrastructure projects and initiatives within the water sector.	Open to all organisations within the water industry
AWA Program Innovation Award (Given in honour of Peter Hughes)	To provide recognition of significant and innovative environmental or sustainability programs within the water industry.	Open to all organisations within the water industry
Water Industry Safety Excellence Award	This award acknowledges outstanding initiative and a team's contribution in considering and playing an active part in the area of safety improvement and injury prevention across the entire urban water industry.	Eligibility is extended to teams of employees of AWA and or WSAA member organisations.

STUDENT AWARDS

Award name	Summary	Eligibility
Undergraduate Water Prize	This award aims to encourage and reward students for excellence in the field of water studies and research, and provides a forum for students to display their academic excellence and research findings to future employees, clients and the water industry.	Eligibility: Open to students enrolled or recently graduated (within last twelve months) in a university or tertiary institute within Australia whose final year project is on a water industry related topic.
Australian Stockholm Junior Water Prize (Australian SJWP)	This annual water science competition for senior high school students focuses on projects aimed at improving the quality of life through improvement of water quality, water resources management, water protection and water and wastewater treatment.	

AWARDS FOR PAPERS AND POSTER PRESENTATIONS

AWA Award for Best Ozwater Paper (Given in honour of Michael Flynn)	This award recognises the author(s) of the best paper at the annual Ozwater conference and exhibition. The best Ozwater paper is judged on both the quality of the paper and the quality of the oral presentation of the paper.	Oral presentations must be made by at least one of the authors. Papers must be presented at Ozwater. Papers must be original and should not have been presented at any other event or conference
AWA Award for Best Ozwater Poster (Given in honour of Michael Flynn)	This award recognises the author(s) of the best e-poster at the annual Ozwater conference and exhibition.	Posters must be presented at Ozwater. Posters must be original and should not have been presented at any other event or conference

Nominations for the 2012 AWA awards

Please see below details of the AWA awards program in each state or territory.

Where relevant branch awards are offered, nominations must initially be forwarded to the branch for the state awards. The AWA National Office **will not** accept any nominations for these types of awards. State winners will be automatically nominated for the national award.

BRANCH AWARDS			
State or territory	Branch awards	Nominations open	Closing date for 2011 nominations
ACT	Infrastructure Project Innovation Award Program Innovation Award Young Water Professional of the Year Undergraduate Water Prize Postgraduate Water Prize Project Award for Emerging Professional	7 March 2011	12 August
NSW	Infrastructure Project Innovation Award Program Innovation Award Water Professional of the Year Young Water Professional of the Year Undergraduate Water Prize Water Research Merit	August 2011	30 October
SA	Infrastructure Project Innovation Award Program Innovation Award Young Water Professional of the Year Hodgson Medal Undergraduate Award Postgraduate Water Award Premier's Water Medal	June 2011	16 September
VIC	Infrastructure Project Innovation Award Program Innovation Award Water Professional of the Year Young Water Professional of the Year Undergraduate Water Prize AWA 'Wal Whiteside' Operator of the Year Award	June 2011	16 September

State or territory	Branch awards	Nominations open	Closing date for 2011 nominations
WA	Infrastructure Project Innovation Award Program Innovation Award Water Professional of the Year Young Water Professional of the Year Undergraduate Water Prize WA Water Innovation Award Waterwise School Waterwise Business Waterwise Specialist Waterwise Council Water Resource Management Award Water Recycling Merit Award Don Montgomery Award Conservation and Efficiency Award	June 2011	16 September
QLD	Infrastructure Project Innovation Award Program Innovation Award Water Professional of the Year Woman of the Year Young Water Professional of the Year Undergraduate Water Prize Distinguished Service Award Regional Service Award Water Research Merit Award Operator of the Year	1 April 2011	27 May
Tasmania	The Tasmanian Water Environment Merit Award (TWEMA)	8 February 2011	8 April

Where no relevant branch awards are offered, nominations can be submitted directly to the AWA National Office.

Nominations to the following awards can be submitted directly to AWA National Office:

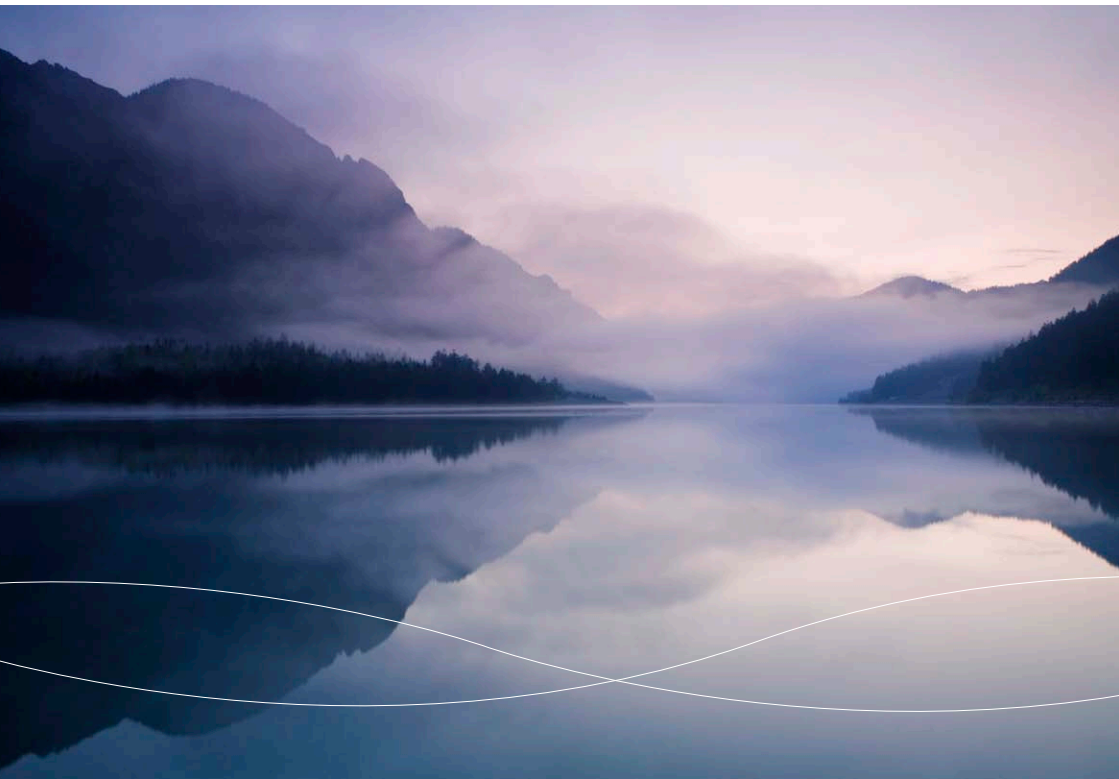
- Australian Stockholm Junior Water Prize
- National Water Industry Safety Excellence Award
- Honorary Life Membership
- Exceptional Service Award

Nominations for the 2012 National Awards Program open May 2011 and close 30 November 2011.

For further information on any of our awards please visit our website at www.awa.asn.au or contact our Awards Coordinator at awards@awa.asn.au or phone 02 9436 0055.

AWA would like to extend a special thank you to the following judges for kindly volunteering their time

David Barnes	Sinclair Knight Merz
Darryl Day	Power and Water Corporation
Barry Norman	SMEC Australia Pty Ltd
David Nixon	Kellogg Brown & Root Pty Ltd
Grant Wilson	WHAM
John Howard	SA Water Corporation
Timothy Clune	North East Region Water Corporation (North East Water)
Lynne Powell	Cairns Regional Council Water and Waste
Michele Akeroyd	Water Quality Research Australia (WQRA)
Peter Dillon	CSIRO Water for a Healthy Country Flagship
Mark Pascoe	International Watercentre Pty Ltd
Amy Dysart	Power and Water Corporation
Grant Leslie	Water Services Association of Australia
Helen Stratton	Griffith University
Jeffrey Camkin	University of WA
Graham Dooley	Osmoflo Pty Ltd
Lucia Cade	Comdain Infrastructure
Amanda Hazell	Water Corporation of Western Australia



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