At Last Something That is No Longer ‘un-Australian!’

At the moment declaring something un-Australian appears to be a way of getting political attention.

Well the Editorial Team would like to take something off the ‘un-Australian’ list. And that’s ‘banging your own drum’. Only of course if you are very very good at what you do.

And there are plenty of people and organisations in our Association who are very very good at what they do.

Some of the best work carried out by our members in the past twelve months has been recently recognised across Australia through the presentation of our state Excellence awards. Each year the Victorian, NSW, South Australia and Queensland Associations manage a ‘Recognition of Excellence’ awards program.

In order to play our part in ‘banging the drum’ of our award winners we have decided to dedicate this issue of the Bulletin to all of our winners.

Through the initiative of Stormwater National and with the support of the State Associations industry excellence awards are now offered in common categories. Those categories are,

- Excellence in Strategic or Master Planning
- Excellence in Infrastructure
- Excellence in Research, Innovation, Policy and Education
- Excellence in Asset Management

All of the State winners from this year and next will be considered for the National Awards, which will be presented at the second annual National Stormwater Conference in Melbourne from October 15th to 19th 2012. (Put those dates in your diary now!)

As you work through this issue we are sure you will be very excited about what is happening in stormwater management all over the country.

If you or your organisation have been successful in either winning a category or receiving highly commended recognition for a category, we think you should start ‘banging your own drum’, and a great way to start doing that would be to show a copy of this Bulletin to your colleagues, your family and your friends.

Being recognised in this arena is acknowledgement that you and your team are very very good at what you do and that is certainly something worth talking about.

Editor
South Australia

Waterproofing the West - Stage 1, City of Charles Sturt

The Waterproofing the West – Stage 1 Master Planning project resulted in a concept for a region wide system that harvests, treats and stores stormwater and distributes recycled water through western Adelaide. The planning process has provided a solution to the challenges associated with stormwater management in a fully developed urban environment including stormwater water quality improvement, flood management and water supply management.

Victoria

Brimbank City Council Alternative Water Strategy, Parsons Brinckerhoff in conjunction with Brimbank City Council and City West Water

Utilisation of alternative water sources is a key aspect of the Australian Government’s Water for the Future plan, which focuses on four priorities: taking action on climate change, using water wisely, securing water supplies and supporting healthy rivers.

This investigation used an innovative multi-criteria analysis approach, combining social, environmental and economic criteria to determine the optimal non-potable water supply for each site involved. The non-potable water types assessed included sewer mining, groundwater extraction, stormwater harvesting and carting of recycled water. Based on this approach, stormwater harvesting was found to be the most preferable alternative water source to service the identified sites.

Queensland

Moreton Bay Regional Council Total Water Cycle Management Strategy, BMT WBM

The Total Water Cycle Management (TWCM) Strategy developed for Moreton Bay Regional Council has been instrumental in identifying key water cycle management issues within each catchment and potential management solutions to address these issues. Improved stormwater management to protect receiving water quality/ecological health was identified as a key management issue for the Moreton Bay region.

The key tasks undertaken included:
1. Identification of specific influencing drivers (environmental, social, economic and regulatory)
2. Description of key characteristics and a summary of existing and future water cycle ‘accounts’ quantifying flows and pollutant loads for each element of the water cycle (e.g. stormwater, reticulated water, wastewater, groundwater)
3. Identification of key issues and constraints
4. Identification of potential management responses to issues
5. Assessment of stormwater/water solutions through multi-criteria analysis with stakeholders (MBRC, Unitywater, Councillors)
6. Identification of a ‘solution set’ based on the results of the multi criteria analysis ensuring issues identified would be sufficiently addressed
7. Determining a methodology for further detailed planning and assessments of the solutions sets to assist in stage 2 – developing a total water cycle management plan for the region (currently underway).
Funding from the Regional and Community Infrastructure Program Strategic Projects 2010 allowed the Blue Mountains City Council to invest in the Lawson Industrial Estate, putting in place the building blocks for it to become a best practice clean technology business park.

An Integrated Water Sensitive Urban Design (WSUD) Management Strategy for the Business Park was prepared by STORM CONSULTING, providing a balanced and integrated approach to the management of stormwater in the Business Park.

The notion was to re-develop the Business park in a sustainable manner. Specifically, to protect the sensitive and vulnerable receiving waters and environments in the World Heritage National Park just downstream.

**Excellence in Infrastructure**

**South Australia**

**Unity Park Biofiltration, City of Salisbury**

The Unity Park Biofiltration project involved the construction of 6 x 200 m² bio-filtration cells and 2 conventional treatment wetlands, in order to facilitate intensive research and development trials. Each pair of cells has different filtration media and plant mixes, flow distribution systems and saturated zones at the base of the filtration beds.

The objective is to test and determine the best configuration for small footprint bio-filtration technology for large scale stormwater harvesting. Bio-filtration trials will be extensively monitored over a 24 month period to investigate an optimal configuration for bio-filters for stormwater harvesting.

A collaborative approach was undertaken between the City of Salisbury, the Design team (Council engineers, DesignFlow and Wallbridge & Gilbert) and Construction Contractors (SEM, SADB Directional Drilling and Tron Civil). In addition consultation was held with State Government agencies, adjoining councils and the community.

**Victoria**

**Protecting Dobsons Creek from Degradation - Wicks Reserve Bio-Infiltration System, Knox City Council, in Conjunction with Monash University, The University of Melbourne, Contek Constructions Pty Ltd, and the Victorian Government**

The aim of the project is to provide a measurable ecological improvement to the creek (as measured by a range of ecological indicators). The project therefore goes beyond the normal load reduction targets, aiming to restore the quality, frequency, volume and timing of flows in Dobsons Creek to their natural level. At the same time, a principal aim of the project is to demonstrate the integration of stormwater management into the landscape, to both reduce environmental impacts of stormwater, and to reduce the risk and consequence of flooding.
President’s Message

Dear Stormie,

The SIA National Directors’ Meeting and the Annual General Meeting were held recently. I have summarised my report on behalf of the Board of Directors, which was tabled at the AGM.

The SIA is comprised of a number of entities that include Incorporated State Associations (State SIAs) and a non-profit company, the Stormwater Industry Association Ltd, also known as SIA National. National SIA has a number of objectives for which it was established and these form the basis for actions and future strategic direction.

Contact with both politicians and bureaucrats have continued. A significant collaboration was with the senior officers of the Australian Government in relation to the next round of Stormwater Harvesting Grant Funding. This resulted in the SIA assisting the Australian Government to run a series of briefing sessions across the nation.

In 2010 the first national conference was held in Sydney: a significant achievement that required a collaborative process between SIA National and the State SIAs. A major achievement was the revision of the National Awards, which resulted in a set of common categories and criteria. State winners automatically qualified as national contenders.

The GPT Validation Project was sponsored by the SIA National in collaboration with the State SIAs. This project aims to develop protocols for testing the performance of GPTs. The first stage: engaging the CSIRO to prepare a literature review has been completed. The release of the literature review is being scoped as part of the next stage of the project.

A Communications Strategy was developed and a number of initiatives from that Strategy have been completed or are substantially underway. The new format SIA Bulletin is now being produced in colour and contains a higher component of SIA content. An electronic version is planned, in conjunction with a major review of the Web-site.

SIA National negotiated an agreement with publishers APRS Pty Ltd to provide SIA content in their biannual Water Management Journal. This is published as a high-quality glossy journal, eBook and Blog, and made freely available to all SIA members.

A draft business strategy and plan has been prepared. This will set the strategic direction for SIA National for the next 3 years, positioning the SIA to move forward and build a stronger foundation for the support of the State SIAs.

In conclusion, I would like to thank the Board of Directors, the National Committee of Management and the team at GEMS Pty Ltd for their editorial support of the Bulletin and event management services last year.

Sia later,
Steve Frost, National President

Excellence in Infrastructure (cont…)

Queensland
Rain Bank – South Bank’s Stormwater Harvesting and Reuse Centre, South Bank Corporation in Conjunction with Bligh Tanner Pty Ltd
South Bank Corporation, in conjunction with consultants Bligh Tanner Pty Ltd, have developed a stormwater harvesting system designed to improve water efficiency and reduce water consumption across the Parklands. This will assist in their vision to become a national leader in water conservation and environmental sustainability.

Rain Bank stormwater harvesting and reuse project will divert stormwater runoff from a 30 hectare catchment across West End to a 2 megalitre underground storage tank next to the Wheel of Brisbane. An estimated 77 megalitres of stormwater per annum will be harvested, stored, treated and reused within the Parklands. It is estimated Rain Bank will provide up to 85% of the Parklands’ irrigation and supplement water features and toilet flushing. Rain Bank will save more than 30 Olympic-sized swimming pools of water per year and South Bank will have a predominately self-sufficient irrigation water supply. Future uses may include being a source of water for swimming pool filter backwashing and to top-up pools and lagoons.

The finished plant includes an underground storage tank, a stormwater treatment plant, a Stormwater Harvesting Inception Pit (SHIP) (where water is redirected from the Council stormwater system to the Rain Bank) and treated water distribution pipes.

There is also a state-of-the-art animation display and viewing deck area, providing year-round educational opportunities for visitors to learn about stormwater harvesting and water conservation.

New South Wales
Chatswood Integrated Flood Mitigation and Stormwater Reuse Scheme At The Concourse, Chatswood NSW, Willoughby Council
The “Chatswood integrated flood mitigation and stormwater reuse scheme” developed at Willoughby City Council’s new $160m performing arts centre “The Concourse” in Chatswood, NSW has set a new benchmark in flood mitigation and stormwater reuse in Australia.

What makes this project unique is the harvesting of urban runoff without the benefit of natural biofilters, and the reuse of this product primarily to feed “The Concourse” cooling towers, thus achieving substantial potable water savings for the building.

Willoughby City Council’s potentially CBD wide application of treated stormwater product to reduce potable demand in Chatswood buildings takes harvesting stormwater to a whole new level by the multiplicity of potable water savings through negotiating the sale of recycled water product to local businesses.

The 5 megalitre underground storage tank behind the Concourse building also acts as flood mitigation by reducing the severity of down stream flooding during heavy rain events. The tank has been designed to accommodate urban runoff up to extremely heavy (1:100 year) rain events.
Excellence in Research, Innovation, Policy and Education

South Australia
Tuflow Scenario Modelling - North East Arm Catchment, City of Port Adelaide Enfield and Tonkin Consulting
In order to provide Councils with a better basis to assess flooding impacts from increased urban consolidation, Tonkin Consulting have applied a linked 1D/2D hydro-dynamic flow model (TUFLOW) developed by WBM in an innovative manner.

The innovation was in the application of the TUFLOW model, traditionally applied to complex river systems, to urban flood modelling. In addition, an innovative use of MAPINFO for the production of data was a key factor in enabling the modelling work to be undertaken.

Victoria
The City of Port Phillip Water Plan – Towards a Water Sensitive City, City of Port Phillip, acknowledging Melbourne Water’s Living Rivers Stormwater Program
The Water Plan aims to articulate and respond to the needs of Council’s key partners and stakeholders. To this end the City of Port Phillip undertook extensive consultation on the Water Plan between December 2009 and April 2010 as part of the adoption process. This included key players in the water sector, such as Melbourne Water and South East Water, as well as the community, engaging with over 160 community members as part of Council’s Climate Conversations.

Queensland
Stormwater Safety Program, Gold Coast City Council
Now in its seventh year, Gold Coast City Council’s Stormwater Safety Program is rolled out annually during the Gold Coast wet season from November to March. The program aims to save lives by educating local students on the dangers of playing in stormwater drains and encourage motorists not to drive into flood waters.

In 2010/11, there were only two swift water rescues on the Gold Coast, down from 15 the previous year, despite it being one of the wettest summers on record. The importance of the campaign was highlighted during the Queensland floods when nine people died from their vehicles being caught in flood waters. One man was also killed when he was sucked into a Brisbane stormwater drain.

The challenge was to grow the campaign and increase reach using the same budget from the previous year ($200,000). Some innovative aspects of the campaign included:
• Establishing partnerships with Queensland Fire and Rescue Service, the Nine Network, Dreamworld/WhiteWater World, Educational Experience and the Queensland Department of Transport and Main Roads
• A strong schools program with curriculum linked resources, interactive activities, presentations and school incentives
• Supplementing the schools program with cinema and community service television advertisements
• Radio advertising to reach motorists, supplemented by television and print advertising and localised initiatives such as electronic traffic message boards stationed at flood prone causeways.

DISCLAIMER
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New South Wales
CApture of NUTrient Exports – CANUTE, Cardno (NSW/ACT) Pty Ltd

The aim was to assemble a tool with simplified data requirements to assess the capture of nutrients across the whole Hornsby LGA by Council’s Catchment Remediation Program on an annual basis as part of its State of the Environment reporting.

The tool assesses the CApture of NUTrient Exports (CANUTE) across the whole Hornsby LGA. The tool comprises a summary worksheet, a generic worksheet for each of Council’s defined subcatchments and a worksheet that estimates the nutrient loads discharged from three Sewage Treatment Plants (STPs) located within the Shire.

Handel’s Water Music Should Feature at Entertainment Centre Opening

The recent opening of Willoughby City Council’s $160 million plus entertainment centre should no doubt have featured at some stage a performance of Handel’s Water Music.

That is because built in to this entertainment complex is a magnificent piece of stormwater infrastructure that was recently recognised as a winner in the ‘Excellence in Infrastructure Award’ at the Stormwater NSW Conference in the Hunter Valley.

The Chatswood ‘Integrated Flood Mitigation and Stormwater Reuse Scheme’ was described as both ‘ground breaking’ and ‘remarkable’ by those at the conference who enjoyed David Sung’s and Geoffrey Douglas’ presentation on the program.

The scheme collects stormwater from a 19 hectare, highly urbanised catchment within the CBD of Chatswood and from the 1 hectare Concourse Entertainment Centre site.

What makes this project unique is the harvesting of urban runoff without the benefit of natural bio-filters and the reuse of this product primarily to feed the Concourse Entertainment Centre cooling towers, thus achieving substantial potable water savings for the building.

In another first, Willoughby City Council is negotiating the sale of this recycled water product to local businesses to allow for the multiplication of potable water savings through the Chatswood CBD.

Additionally, the scheme acts as flood mitigation and will reduce the severity of downstream flooding during heavy rain events. An enormous five megalitre underground storage tank behind the Concourse building has been designed to accommodate urban runoff up to extremely heavy (1 in 100 year) rain events.

In congratulating the team from Willoughby City Council Stormwater NSW President, Murray Powell was very enthusiastic about the ground breaking nature of this activity. “This project brings together the very best in modern stormwater management. It really demonstrates how far this industry has come in such a short time.’ Powell said.

“It is also very exciting to think how much this industry can achieve in the not too distant future.’ Powell concluded.
Excellence in Asset Management

South Australia
Water Resources Asset Management Plan and Capital Works Resource Allocation Strategy,
City of Onkaparinga
The City of Onkaparinga’s Water Resources Asset Management plan considers whole of life costs, risk and network management and service standards for “traditional” infrastructure as well as more complex stormwater assets (including biofiltration systems, erosion control structures and wetlands).

The water resources network is the third highest asset class valuation amongst the City of Onkaparinga’s inventory of over $1 billion in community assets, demonstrating the importance of the asset management plan.

Victoria
Moonee Valley Integrated Water Asset Management, Moonee Valley City Council
The central premise to the Moonee Valley Asset Management Program is to have a strategic and holistic approach in place. This recognises that strong policy, data management, and staff engagement is as vital as having the maintenance procedures and costings in place.

Moonee Valley’s Integrated Water Asset Management Program ensures upkeep, good operation, staff and community understanding of all stormwater assets that are built in the municipality.

The design, construction and upkeep of these assets are developed to address stormwater issues highlighted in the recently adopted Water Strategy 2011.

Queensland
No award was presented in this Category in Queensland.

New South Wales
No award was presented in this Category in New South Wales.
Letters to the Editor

SIA Bulletin 21 October, 2011 from Neville Jones SIA, Queensland

It was refreshing to read Murray Powell’s article in the SIA Bulletin #181 (Sept., 2011) where he predicts advances in Stormwater Management over the next 10 years.

Murray emphasises the cost of maintenance. As we moved from flow management involving essentially the maintenance of pits and pipes we now have a range of QIDS (Stormwater Quality Improvement Devices) including GPT’s, constructed wetlands, bio-filtration etc. The cost of maintaining and continuing the effectiveness of these is still an area of uncertainty and risk for those who inherit them (mainly Local Governments). Despite this uncertainty insufficient funds are being directed towards monitoring their effectiveness and validating their original design criteria and anticipated life cycle cost.

Murray refers to predictions in the 1970’s by Lawrence on the Total Phosphorus removal anticipated in wetlands after 14 days. Later on his initial 70% removal prediction was reduced to a much lower TP removal. This of course raises something that we are not so good at – questioning. When we compare the professions represented in SIA we do not exhibit the healthy controversy and questioning exhibited by, for example, the legal and medical professions. Should we be more questioning and not just accept codes or standards of practice without sufficient question?

Murray also addresses Stormwater Harvesting. A brief review of some existing major Brisbane urban water storages and nearby creeks indicates that opportunity exists for harvesting of runoff from the creeks and water supply augmentation. The City of Orange in NSW has already put in place excellent processes involving harvesting, treatment and use of stormwater runoff, demonstrating the effectiveness of harvesting as a viable means of augmenting urban water supply. Neville Jones, SIA Queensland

Please Note: All letters to the editor should be directed to: editor@stormwater.asn.au and must include full contact details for the person preparing the letter.

Stormwater in the News

Whenever there is the chance we plan to run stories from the mainstream media that have covered stormwater issues. In recent months for example we have included stories in the Bulletin from the national broadsheet The Australian and the The Age newspaper in Melbourne.

This month we are running an excellent piece from InDaily in South Australia profiling Colin Pitman, the recent winner of the South Australian Stormwater Industry Association’s ‘Chair’s Award for Contributions to the Industry’.

Our purpose in running these articles is to firstly reinforce the fact that stormwater is becoming more and more of a mainstream issue and also to encourage all of our members to strive to generate mainstream coverage for their stormwater programs.

The more we can get stormwater issues into the mainstream press, the more important it becomes politically and from that the more people we can get to pay attention to what the Association has been talking about for years.

Any contributions should be directed to: editor@stormwater.asn.au.

Please Note: All letters to the editor should be directed to: editor@stormwater.asn.au and must include full contact details for the person preparing the letter.

DRAINS Workshops will be presented in

Melbourne, 8-10 November
Sydney, 15-17 November,
Perth, 28-30 November, and
Brisbane, 6-8 December, 2011.

For details, contact Geoffrey O’Loughlin on 0438 383 841 or at geoff.oloughlin@tpg.com.au.

DRAINS now employs full unsteady hydraulics in pipes and channels - see www.watercom.com.au
Highly Commended Awards

South Australia

Excellence in Infrastructure
- Michael Perry Reserve Erosion Control and Habitat Restoration, City of Burnside
- Niche at Hillbank, Greenhill Engineers & Hassell
- Christie Creek Upgrade, Leed Engineering & City of Onkaparinga
- First Creek Flood Mitigation Works Stages 1 – 5, City of Norwood, Payneham & St Peter’s

Excellence in Asset Management
- City of Prospect Stormwater Drainage Condition Assessment, Tonkin Consulting and City of Prospect

Queensland

Excellence in Infrastructure
- Waterway Health Enhancement - Stable Swamp Creek, Evenwood Street Stage 3, Brisbane City Council

New South Wales

Excellence in Strategic or Master Planning
- Googong Township – Integrated Water Cycle Project, Brown Consulting, Canberra Investment Corporation Limited (CIC), Manidis Roberts & Montgomery Watson Harza

Excellence in Infrastructure
- The Cup and Saucer Creek Wetland, Sydney Water
- Managing Overland Flooding in Dubbo – Brisbane Street Drainage Augmentation, Dubbo City Council
- Ploughmans Creek Stormwater Harvesting Scheme, Geolyse
- Echo Point Stormwater Harvesting and Reuse Scheme, Equatica and Blue Mountains City Council

Excellence in Research, Innovation, Policy & Education
- Remote Monitoring of Ku-ring-gai Council’s Stormwater Harvesting Systems, Ku-ring-gai Council

Victoria Merit Award for Infrastructure, Pipelines Alliance

Victoria Merit Award for Excellence in Strategic and Master Planning, CPG Australia

New South Wales Award Winners

New South Wales Highly Commended Excellence in Infrastructure, Managing Overland Flooding in Dubbo, Dubbo City Council
FOR all his doubters and detractors, stormwater guru Colin Pitman still keeps pulling in the awards.

The latest is a double from the Stormwater Industry Association: one to him personally for “Excellence to the Industry”; and an “Excellence in Infrastructure Award” to his Salisbury Council water team.

Pitman, the council’s director of city projects, is best known for his passionate advocacy of stormwater recycling for irrigation, industry and ultimately as drinking water. Starting 22 years ago with the original Greenfield Wetlands near the current Mawson Lakes, Pitman, 62, has received recognition and criticism almost in equal measure over the years.

The criticism comes in various forms, usually off the back of another Pitman challenge to accepted government wisdom. One of his targets is the Adelaide Desalination Plant for its expense and environmental impact compared to recycling stormwater.

“We have, within our industry, detractors - even some scientific detractors,” he told Indaily. “But we know from our consultations, the community is far more supportive of what we’re doing than they are of the desal plant. They know this water is falling on their roofs, they know it’s running down the street, they know it’s going to sea and that somehow it should be cleaned.

“But to take water from the ocean and squeeze it through a sausage and push out the salt with a lot of energy and then distribute it, I think is fundamentally contrary to today’s thinking about the consumption of energy and effort in actually putting water into our mouths.”

The Salisbury team award was for the Unity Park Biofiltration Wetland at Pooraka, a pilot project that cleanses urban stormwater run-off. Pitman, along with the team’s water systems manager Bruce Naumann, use Unity Park as a demonstration plant to show that small urban areas can still effectively capture and re-use stormwater.

Since the early Greenfields days, the council has become so sophisticated in managing water that it can now blend different types of recycled water to suit a customer’s needs.

“The trick nowadays is to say, what does the customer want? Do they actually want drinking water? Or are they happy with salty water with no bacteria? Or do they want that water simply to improve the urban design of a community?

“You then focus on fit-for-purpose water. It’s not simply about second-grade water. It’s actually mixing water to achieve a customer’s specific demands.”

Pitman has built up commercial relationships with local business and industry, which do not require expensive tapwater for their processes but can use the second-grade water supplied by Salisbury.
He is also trading water credits with some industrial customers including a food processor that draws saline water from a bore.

“That customer is very happy with that water because there’s no bacteria at all. It’s food quality water; it’s water that can be used in the food industry.”

Pitman said the relationship with industry had matured to the stage where the council was treated as a trusted partner rather than simply as a local council. However, the same trusted relationship did not exist with the state government, he said.

The government had made a political decision to invest heavily in the desal plant and Pitman said stormwater management was considered to be at odds with SA Water’s vested interests. He said the government paid lip-service to stormwater only to get the public off its back.

“In the last couple of years they’ve put about $20 million into stormwater but it needs $300-400 million to actually give it a real opportunity. That token support has to some extent cooled down the political flame that is being thrust on their bellies.

“But in the community, the ardour of the community is to say on [rainy] days, why are we letting all that water go? At a local level I think the residents, the industry and the community are basically saying, why are we paying for this [desal] monolith?

“Both the opposition and the government have actually said they want that monolith - one only half the size of the other - but they’ve nailed their hand to the cross on this.”

Pitman was confident that stormwater management soon would produce water pure enough to drink at an affordable price. A research project is currently underway by the CSIRO and the federally-funded Goyder Institute, which he said could produce conclusive results in three to four years.

Meantime, the next stage of Pitman’s water evolution is a project he is working on with a mathematician to develop an automated system to anticipate flood problems and to manage stormwater at the same time.

By collecting rainfall data such as precipitation rates for flood-prone areas like Globe Derby, the model aims to predict both flooding events and to assess how much of the water can be captured for re-use.

“Now that has never been done before. That is real, real leadership stuff. There have been attempts to do the flood management stuff - the Brisbane River - and there’s work done in Europe where they model the Rhine and the Spree and other rivers to predict flood flows.

“But to predict the actual water quality for the purpose of storage and management, and monitor the nutrient loads in the water and the nutrient reduction through wetlands, has never been done before in one package.”

“It is complex and it’s got to be done, otherwise stormwater recycling will not be successful. Because you can’t have people sitting in concrete rooms constantly managing these systems. You have got to be able to automate them to some extent.

“They’re far too complex as it is. It requires technology similar to flight predictions and landing automatically on runways, to manage stormwater the same way.”

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**Upcoming Events**

**SIA SA Annual General Meeting**

Thursday 16th November 2011
Venue TBA
Email: siasa@stormwater.asn.au

**6th Australian Stream Management Conference Managing for extremes**

6th - 8th February 2012
Location: Canberra
www.asm6.org.au

**Stormwater Harvesting in Western Australia Hydropolis 2012**

March 13th, 2012
Location: Perth
Web: www.stormwaterwa.asn.au
Email: info@stormwaterwa.asn.au

**Call for Abstracts and Expression of Interest**

If you are interested in presenting at Hydropolis 2012 send an abstract to info@stormwaterwa.asn.au or phone SIA WA Chair Jim Davies on (08) 9388 2436. We would be delighted to hear from you.

**Stormwater 2012 National Conference**

15th - 19th October 2012
The Sofitel Hotel, Melbourne, Vic

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**Become a Sustaining Member of the SIA**

Becoming a Sustaining Member of the Stormwater Industry Association benefits your organisation in many ways including participating in the management of state SIA through election to state committees, building your profile within the stormwater industry, providing networking opportunities and assisting with your staff education through seminar and conference discounts.

To find out more about becoming a Sustaining Member of the SIA please email: NationalAdmin@stormwater.asn.au.

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**Would You Like to Join the SIA?**

To register as a member of the SIA, please visit the association website at: www.stormwater.asn.au/join.asp

Or email: manager@stormwater.asn.au

**SIA National**

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STORMWATER INDUSTRY ASSOCIATION OBJECTIVES

The Stormwater Industry Association (SIA) is made up of a number of entities. These include associations incorporated in individual Australian States (State SIAs) and Nationally through a non-profit company called the Stormwater Industry Association Ltd, also known as SIA National.

The objectives for which SIA National is established are:

- To determine and coordinate policy direction for the State SIAs
- To implement policy via the State SIAs
- To represent the State SIAs at the Australian Government level
- To lobby the Federal Government policy advisors and committees for better environmental and technological management of stormwater
- To represent the State SIAs on national issues with national groups, organisations, institutes and elsewhere, as requested
- To further nationally the interests of the State SIAs in stormwater management
- To promote interaction between State SIAs

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John Jensen (East Coast Environmental Solutions)
Bill Johnson (Parsons Brinckerhoff)
Sarah Jones (Healthy Waterways)
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John Keays (Keays Software)
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Simon Sherriff (Department for Water)
Simon Bartosak (Humes)
Chris Michell (Rocla)
Dean Morris (Ecosol)
Robin Allison (DesignFlow)

NEW SOUTH WALES

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Note: Contact details contained in this document may not be used for unsolicited commercial electronic messages.

CHANGES OF ADDRESS

Please advise your relevant State Association if you are moving. A quick call can ensure that your newsletter goes to the correct address or replacement person in your organisation. This is also important for your email news. Often Bulletins are returned through the post with no explanation by front desk staff because you no longer work at the organisation and the new person in your role is left out of the loop.