

# OPERATOR

November 2012 Edition



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Newsletter of the WATER INDUSTRY OPERATORS ASSOCIATION OF AUSTRALIA

## FROM THE EO'S DESK

Following an extended development period, we are excited to report that Certification of water treatment operators in Victoria is now under way. Over the past few months, we developed a Pilot Program and invited a Victorian Water Corporation (Wannon Water) and a private enterprise employer (Veolia Water, Bendigo) to participate.

These two organisations helped us to sanity check the flow of the certification process from start to finish and assisted us in developing application forms and web based material that is clear, concise, easily understood and simple to complete. The pilot process raised a few issues that we hadn't anticipated and working through them has enabled us to develop an even more robust system. We expect that the Pilot Program will be completed with the first four operators being certified in early December and we will be ready to offer certification to the entire Victorian industry in January 2013.

After being a key driver in the development of WIOA for almost 25 years, Life Member and current Chairman, Mr Ron Bergmeier has decided to take a step back from official WIOA duties and allocate more time to his family, personal interests and retirement activities. Ron has confirmed he will be stepping down as Chairman at the AGM in March 2013 and will not seek re-election to the Board. Although we will miss Ron and his astute counsel greatly, it also opens the opportunity for someone else to step up to the plate and make their mark on the organisation. WIOA will be advertising the position extensively through an "expression of interest" style advertisement and we would love to hear from anyone interested in being considered for the role. Contact myself or Ron if you would like some more information.

In recognition of Ron's outstanding contribution to WIOA, and in particular his efforts in taking on and then growing the conference exhibition over many years, WIOA has now named the award for the best display site in each State after Ron. Winners in each State will receive the Ron Bergmeier Award and plaque along with some other benefits.

We have also recently been contracted by the Queensland Department of Local Government (DLGP) to deliver a series of introductory training courses in 2013 for water and wastewater operators in far north Qld. The Board has approved the employment of an additional full time technical person to assist with training, seminar and a range of other duties. The role will be advertised in the New Year so keep your eye out if you have an interest in this area and get your application in.

Another important milestone in the development of WIOA was reached in late November with our 2000th Member being added to the membership list. The Committee has decided to celebrate this important occasion by offering this person an all expenses paid invitation to attend the NSW conference in Canberra. The countdown is now on for 3000!

We were saddened to hear of the passing of Qld water industry stalwart, Brian Davis in October after bravely fighting pancreatic cancer since late 2011. Brian was well known to many of our Qld members and our tribute to Brian is on page 4.

As the year is almost over, I would like to wish everyone a safe and happy Christmas break and look forward to catching up with you all in 2013.

**George Wall**, WIOA Executive Officer

## PROFILE OF A MEMBER

**Name:**

Chris Hall.

**Position:**

Water works operator.

**Employer & Location:**

Ben Lomond Water,  
Launceston, TAS.

**How long have you worked in the water industry and what attracted you to it?**

36 years. Became interested when involved in running water and wastewater plants at Savage River, TAS as part of my job as Town Plumber.

**What do you enjoy most about your job?**

Being left alone to do my job.

**What are the major challenges in your current role?**

The frustration with ongoing reform.

**How long have you been a WIOA member?**

3 years (Member & on the WIOA Tasmanian advisory committee).

**How do you relax?**

Sit back watching a good TV show.

**Where do you live and what's the best thing about it?**

In the country (Tamar Valley) because it's quiet.

**Quick questions**

**Age:** 62 years.

**Nickname:** Chris.

**Family Status:** Married, three kids.

**Pets:** Nil.

**Favourite food:** Vegies.

**Least favourite food:** McDonalds.

**Favourite TV show:** Frost.

**Worst TV show:** U.S. comedy.

**Favourite Movie:** Sarha.

**Favourite Musical artist/s:** Beach Boys.

**Favourite book:** Any of Clive Cussler's.

**Ambition in life:** Retire.

**Hobbies:** Woodturning & Gardening.

**Best Trait:** Willing to help people.

**Worst Trait:** Too quiet.

**Four people to invite to dinner:** No time for dinners to much woodwork to be done .



# Queensland Advisory Committee News

## Interest Day - Toowoomba

On Thursday 27th September, 2012 around 40 water operators and industry representatives attended an informative Water Industry Interest Day at the Wetalla Reclamation Facility in Toowoomba. The day included a presentation on Sewage Pumping Stations ERA 63 (3) and Toowoomba Regional Council development of SBMP's. There were also discussions on small chemical dosing pumps, on-line measurement of disinfection parameters and a report on the operation of the Wetalla biosolids solar drying hall.



*Shane Wohlsten from Iwaki Pumps.*

The Wetalla Water Reclamation Facility receives domestic and trade waste flows generated from within Toowoomba City with a sewage pumping scheme currently under construction to receive flows from the surrounding regions of the Toowoomba Regional Council. The facility consists of a BNR process with a microfiltration plant processing the final effluent. Water treated through the WRF is sold to local industries including New Acland Coal Mine and Millmerran power station.



*Operators enjoying the plant tour.*

A tour of the facility was a highlight of the day which also saw presentations on small chemical dosing pumps by WIOA corporate members ProMinent and Iwaki Pumps and online measurement of disinfection parameters by Thermo Fisher Scientific.

Many thanks are extended to John Paulger (a WIOA IDIOTS member) from Toowoomba Regional Council who pulled the day together and also provided a valuable insight into the Wetalla solar hall operations - 5 years on. It was really good to see the WIOA members networking over a lunch that was supported through the kind support of Iwaki Pumps.



*John Paulger presenting on the solar drying hall.*

## Marcus takes the reigns from Chook

The WIOA Queensland Advisory Committee (QAC) met immediately following the Water Industry Interest Day at Toowoomba. Jason Krzciuk announced his intention to step down as the QAC Chairman during the Queensland conference in June. Nominations and voting took place during the Toowoomba meeting with Marcus Boyd from the Toowoomba Regional Council appointed the QAC Chairman for the next 12 months – congratulations Marcus.

Outgoing chairperson Jason Krzciuk thanked all members of the Queensland Advisory Committee for their support to himself as chairperson and also thanked the other members of the committee for their efforts. A number of successful events have been staged since the inception of the Advisory Committee and it is hoped it will only get stronger and gain more momentum with time. Jason confirmed that it was fun taking on the role of chairperson and it certainly provided some value from his own professional development perspective.



*Marcus Boyd (left) with Jason Krzciuk.*

## CHARITY BOWLS DAY

The next event on the Queensland Advisory Committee calendar is an afternoon of networking incorporating a Charity Bowls Day on 1st February 2013. The day goes from 10am to 3pm at the Yandina Bowls Club. Book your RDO and mark the date in your diary now. We'd love to see as many WIOA members and friends as possible come along in support of this Charity event. We are also looking for Corporate sponsors for the bowls day. If you would like to have a team represent your company at this event please contact Craig at the WIOA office.



## VALE

### Brian William Davis (1954-2012)

We were saddened to hear that Queensland water industry stalwart, Brian Davis succumbed to pancreatic cancer on 16 October 2012 after bravely fighting it since late 2011.

Brian, a Toowoomba boy, had a long and distinguished career as an engineer with the Queensland Department of Local Government, the Water Resources Commission and the Department of Natural Resources and its many variants. He worked with the Department of Local Government in the Engineering and Technical Services Division (1980-1987) during a period of significant water infrastructure development in Queensland and formed enduring friendships with many of those who now hold influential positions in the water industry. Needless to say the camaraderie fostered in those days has withstood the test of time and politics.

Brian returned to the Department of Natural Resources and Water from the Environmental Protection Agency in December 2006. As a Team Leader within Office of the Water Supply Regulator and later the Urban Water Policy and Management division, Brian provided technical input to the development of statewide policy and strategies for progressing urban water issues such as drinking water quality, water conservation and water recycling. Brian was a natural teacher renowned for his engaging and educational staff presentations on water management topics. He knew how to make technical information accessible and interesting to all. Brian retired in November 2011.

Brian was prominent in water education and was a committee member of WIETAA and subsequently chairman of WITA Queensland. Along with Paul McGraw, for many years Brian was one of the main drivers behind the Queensland Water Industry Operations Workshop. Brian worked tirelessly for the education and training of Queensland's water and wastewater operators.

Brian was instrumental in WIOA's establishment and growth in Queensland and was a strong supporter of the development of resources and training courses and materials which could benefit operators in the field. In 2009, Brian was the very first Queenslander to be awarded WIOA's IDIOTS status, an honor he was very proud of.

He enjoyed travelling and camping with his family, telling stories of his endless trips in his beloved 70s VW Combi and since the early 90s, fishing with mates on Fraser and Moreton Islands. He also enjoyed cooking, sharing recipes and fine food and wine. He had a great sense of humour and enjoyed witty word play.

A large crowd attended Brian's funeral, testament to the regard in which he was held by all. Our thoughts and best wishes are extended to his family, friends and former work colleagues at this sad time.

Brian is survived by his wife Debbie and daughters Lisa and Katrina.



*Brian Davis will be sadly missed.*



### Can you Survive the Weekend Seminar?

The 2012 weekend seminar & AGM will be held at the Ramada Resort in Cowes, Phillip Island on 2-3 March 2013.

Innovation is the theme for the weekend and we are putting together a fantastic range of presenters to share some of the innovative ideas and technologies that are being used in the water industry today. We also encourage attendees to communicate their innovative projects with us all at an open forum/discussion.

The seminar includes the Annual General Meeting of the Association (only takes an hour) and the seminar is a great chance for new WIOA members to meet other members and learn about the latest technologies in a relaxed and friendly atmosphere.

The costs for the weekend are absolutely zero, as long as you can get yourself there and home again. From just before lunch on Saturday to lunch on Sunday the weekend is on WIOA – just another benefit of being a WIOA member.

A site tour, great networking opportunities along with some fun and games will all form part of this informative weekend.

To secure your place (limited to 50 participants) email Craig with your details [craig@wioa.org.au](mailto:craig@wioa.org.au)





# Victorian Conference Wrap Up

From 5-6 September 2012, over 1,400 people attended the 75th Annual WIOA conference in Bendigo. The conference included keynote presentations from two international speakers; Valoriza Agua's Domingo Zarzo from Spain, and Practical Process Consulting's Remy Blanc from Israel.

Just over thirty platform and poster presentations were delivered over the two days by engineers, operators and staff from supplier companies. The papers were very well received and were extremely relevant as they provided some great insight into options to manage a variety of operational issues.

Over 150 companies filled the 182 display sites and exhibited the latest in equipment, services and process technologies available to the water industry.

The conference was hosted by Gippsland Water and East Gippsland Water with major sponsorship provided by the Automation Group, Acromet Australia, Peerless Epigen and Xylem.

The event concluded with the official awards ceremony, which saw Nick Stuart from Melbourne Water win the major award, the 2012 Wal Whiteside - Victorian Operator of the Year and Coliban Water winning the inaugural award for the Best Tasting Water in Victoria.

## Award Winners

### Victorian Operator of the Year - Winner

Nick Stuart - Melbourne Water

### Victorian Operator of the Year – Finalists

- Mark Townsend - City West Water
- Dion Bull - Gippsland Water
- Nick Stuart - Melbourne Water
- Brian Scobie - North East Water

### Victorian Young Operator of the Year

Glen Sheekey - Gippsland Water

### Ecolab Prize for Best Paper by an Operator

- 1st Mick Clewes, North East Water
- 2nd Aaron Sewell, North East Water
- 3rd Rhett Chapman, Yarra Valley Water



*Ecolab Prize for Best Paper by an Operator, Mick Clewes (L) with Alex Maderasi from Ecolab.*

### Hepburn Prize and Iwaki Pumps Australia award for Best Paper Overall

Mei-Leng Yau from Parsons Brinckerhoff in WA.



*Hepburn and Iwaki Prize for Best Paper Overall, Mei-Leng Yau (R) with Brad Douglass from Iwaki.*

### Water Industry Training Centre Prize for Best Operator Poster

- |     |                |                         |
|-----|----------------|-------------------------|
| 1st | Matthew Brown  | Barwon Water            |
| 2nd | Daniel Priddle | Barwon Water            |
| 3rd | Grant Chivers  | Veolia Water Operations |



*WITC Prize for Best Operator Poster Paper, Matthew Brown (L) with John Park from WITC.*

Host corporations, Gippsland Water and East Gippsland Water were each allocated \$ 1,500 from WIOA fundraising activities for a charity of their choice. The cheques were presented to Canteen and Water Aid.

### WME – Ron Bergmeier Award for Best Exhibition Display

Emerson

### Orica Victorian Water Taste Test – Coliban Water

### Orica Victorian Water Taste Test Finalists

- Coliban Water
- Gippsland Water
- East Gippsland Water
- Yarra Valley Water

### Kwatye Prize

Mark McConnon - Southern Water, Tasmania

### Ugly Fish Bonus Prize

Coliban Water

# Reflections on the 2012 Vic Conference

First of all, I would like to start by saying; this was my first water industry conference, where, I was looking forward to gathering information about both the water and waste water industry. I am delighted to say that the 75th Annual Victorian Water Industry Engineers and Operators Conference did serve this purpose and met all my expectations.

Of the many varied and interesting papers presented at the conference there were two paper presentations, which discussed similar operational issues that I have come across since I have started working as an operator in this industry. Namely, they are "Trials undertaken to improve the performance of the Shepparton WTP DAFF Plant" by Wesley Wilkie and "Arsenic removal in communities – Using media adsorption" by Mei Yau.

Wannon Water Corporation plans to follow up on the work of Mr. Wilkie, in order to improve the DAFF unit at the Warrnambool WTP. Even though, I have only mentioned two papers, there were many more presentations which were outstanding. The amount of dedication, determination and discipline incorporated in all the material presented were truly remarkable.

The trade exhibition gave me a taste of the technologies that are in use, which was an eye opener. Being new to the industry, I was mainly aware of the technologies / machinery which is used in Wannon Water treatment plants. The vast nature of the industry was shown by the trade exhibitors and their incredible understanding about this industry.

Moreover, the conference was a great occasion to meet and network with new people. This conference gave me an opportunity to discuss the industry with experienced people who have been working for 20 or 30 years in the water and wastewater field.

On a final note I was lucky enough to benefit from one of the conference competitions which made the entire event even more enjoyable. I would like to thank all the sponsors for their generosity. Furthermore, I would like to thank Wannon Water Corporation for giving me this opportunity and exposure to the water industry. There is a Latin saying "Knowledge is power". If so, this event was indeed a very powerful conference.

**Contributed by Thilini Malalasekera,**  
Wannon Water Corporation



*Conference competition winners - Team 2  
The Boundary Riders from Wannon Water.*



## A Uni Students View

Three La Trobe University students studying a Bachelor of Science – Environmental Management and Ecology – Stuart Campbell, Simon Mom and Jane White, were sponsored by WIOA to attend the 75th Annual Victorian Water Industry Engineers and Operators Conference in Bendigo.

The eager students assisted with venue setup and the running of the Inaugural Orica Victoria Water Taste Test Competition and other aspects of the conference as well as attending all of the technical presentations. Over the two days students were able to interact with WIOA staff, exhibitors and water operators and engineers, whilst developing a greater appreciation for the industry.

Students competed in the Conference Competition and with some exceptional team work, a superbly crafted paper boat, an incredible display of Wii Bowling and a great commitment to each other, were successful in gaining third place.

All three students had a great time at the conference, were able to interact with Operators and Engineers and have also become more inspired to gain employment in the Water or Waste Water Industry.

**Contributed by Simon Mom,**  
La Trobe University



## NICK STUART AWARDED 'AWA OPERATOR OF THE YEAR' 2012

Congratulations to Nick Stuart, Lead Operator at Silvan Reservoir, who received the AWA Operator of Year Award at the WIOA Victorian Conference.

The Award recognises the outstanding efforts of an operator working in Victoria who has direct responsibility for operational decisions at community water, sewer or recycled water system/networks and/or water, wastewater or recycled water treatment plants or industrial water or wastewater plants.

Nick was recognised for his efforts in the safe and effective operation of the Silvan Team Water Supply System and across other field operational teams.

Peter Kitney is full of praise for his colleague. "I have had the pleasure of working closely with Nick over the past three and a half years watching him grow in knowledge, skill, maturity and stature, to the point today where Nick has proven to be an inspiring, self-motivated and respected leader across Melbourne Waters' operational teams."

"One of Nick's key attributes is his constructive behaviour where he maintains a positive working environment at all times encouraging and motivating his fellow staff members and those around him," Peter said.

David Voce, is equally effusive in his praise. "Nick's skill set and work ethic has seen him rise up the management stream over recent years to a point where he now operates at the highest technical level within Melbourne Water's Operational structure," he said.

"Nick's passion for his work is almost seen as contagious as he continues to inspire other team members and Operators to achieve. Nick's well performed and highly respected Silvan Water Supply Operational Team is testament to this," David said.

"Nick is a confident and highly self-motivated person with excellent technical skills who consistently demonstrates and applies sound risk management as he manages a large and complex part of our Water Supply System. I couldn't think of a better person to receive this great recognition and the whole team congratulates him whole-heartedly," said David.



*Vic Operator of the Year, Nick Stuart (Melbourne Water) with Chris Corr (AWA, Vic).*

## IWA YOUNG VIC OPERATOR OF YEAR

Gippsland Water's Glen Sheekey, has taken out the 2012 IWA Young Victorian Operator of the year, for his outstanding commitment to developing his skills as a Water Treatment Plant Operator.

Glen, who has been a water treatment operator with Gippsland Water for three years, was nominated by his peers for a range of reasons including his enthusiasm and application towards his studies at the Water Industry Training Centre in Geelong and his ability to deal with challenging situations in the workplace.

Glen may blush when described as an outstanding problem solver, but his ability to solve technical problems at the plant has been a significant factor in him being nominated for the award.

"It's a bit embarrassing to be nominated for an individual award when there are so many good treatment operators at our plants," said Glen "but it's nice to be acknowledged by my workmates who have given me so much guidance in the past few years."

Glen's willingness to stand in for his mates when needed at other plants and his commitment to being involved in work projects were also noted in his nomination; but for Glen, that's just how it works at Gippsland Water.

Managing Director David Mawer, in acknowledging the individual honour bestowed upon Glen, said "We are very proud of Glen's achievement and it is an honour to have a Gippsland Water staff member recognised for such an accolade." "It is through the commitment of our staff like Glen, that we continue to deliver high standards of service for the Gippsland Community," he concluded.



*VIC - Young Victorian Operator of the Year, Glen Sheekey (Gippsland Water) with Les Mathieson (IWA Victoria).*

*Glen Sheekey during his acceptance speech.*



## 2012 KWATYE PRIZE

WIOA's prestigious national Kwatye Prize, sponsored by Thermo Fisher Scientific was awarded to Southern Water's Regional Water and Wastewater Manager, Mark McConnon, at the 75th Annual Victorian Water Industry Operators Association's (WIOA) conference in Bendigo.

Mark was awarded the prize for his application to investigate and develop a code of practice covering the disinfection of water reticulation systems, an outcome that was identified as a need for his Tasmanian water corporation. This project is designed to gain knowledge on the disinfection practice of reticulation systems after maintenance, the equipment used and its cost and then development of a comprehensive working document (Code of Practice) for the Tasmania water corporations to utilise.

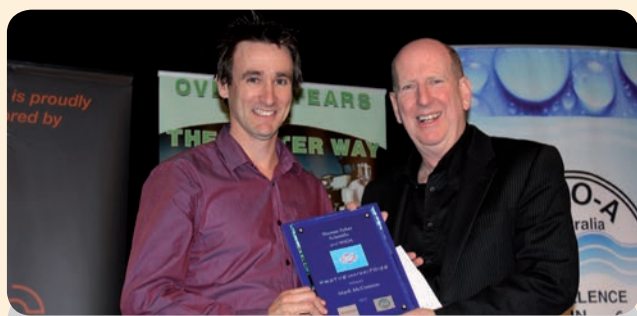
Southern Water recognised the risk to customers from mains breaks and provided training to all of its operators through the WIOA Distribution Seminar designed to raise awareness of the risk to customers through work practices when undertaking repairs of water infrastructure. These sessions allowed the staff to provide feedback about work practices and the requirement for equipment and a procedure to ensure that reticulation systems are disinfected adequately therefore ensuring a safe drinking supply for our customers.

"I am passionate about improving the knowledge in our industry and ensuring that we do everything within our power to ensure that we continue to provide safe drinking water to our customers," Mark said after accepting his prize.

"To be announced the winner of the Kwatye Prize in front of over 500 water industry professionals was overwhelming and completely unexpected as this project started off as a work related interest that has escalated into national recognition."

The \$6000 award funding for the project will enable Mark to further research current disinfection practices used by other water corporations. It is the eighth occasion the Kwatye Prize has been presented through the generous support of Thermo Fisher Scientific and Mark's research will be presented at a joint WIOA and Thermo Fisher Scientific event in the future.

The Kwatye Prize (Kwatye meaning 'water' to the Arrente aboriginal people of the Northern Territory) is open to all WIOA members across Australia. Mark was a worthy winner in 2012 and we encourage members to consider applying for this award in 2013.



Kwatye Prize winner Marc McConnon with Thermo Fisher Scientific's Wayne Kibbis.

**ThermoFisher**  
SCIENTIFIC

## SELLS IS SOLD ON JOINING WIOA IDIOTS

Tim Sells from Acromet Australia was the latest member to be Inducted as a Delegate of the Inextricably Obstructed Tap Society (**IDIOTS**) at the Chairman's Dinner at the Victorian conference. This award is designed to recognise the contribution of members over an extended period and is only surpassed in prestige by the Associations top award of a Life Membership.

Tim began work as an apprentice Fitter and Turner in 1982, the year South Melbourne became the Swans and the Newtown Jets & Canterbury Bulldogs fight out the only (to date) scoreless draw in NSWRL first grade history.

In 1987 Tim began working for Permutit Australia as a service technician looking after all manner of water filtration equipment – sand filters, carbon filters, water softeners, demineralisation plants, and RO.

Moving on after 14 years, Tim had a 3 year stint with Cadbury Schweppes, before being approached by Acromet to establish a service department. Tim joined Acromet in 2004 and has been a supporter of WIOA and a regular attendee at WIOA events ever since.

Tim has been Acromet's nominated Corporate Member representative since 2007 and was instrumental in Acromet's decision to become a Prime sponsor of WIOA events in 2008.

Tim has attended pretty well all the conferences in NSW, Queensland and Victoria since 2008 and at every event he has hopped in and helped out, most notably as a forklift driver and in setting up and pulling down the expos. Although Tim is not on the WIOA Committee, he is a reliable and active member and is very deserving of being inducted into the IDIOTS fold.

### Tims response

It's a huge honour to be presented the IDIOTS award and to join an elite group of similarly recognized IDIOTS. On a more serious note, I was totally surprised and humbled to be recognised for services to the water industry and WIOA; something I never expected or deserved. It is truly rewarding being part of the Water Industry and to be involved with the WIOA family as a volunteer and exhibitor.



Newly inducted IDIOT - Tim Sells with Anthony Evans.







# GO TAP CAMPAIGN

WIOA has been fortunate to have the founder of the “Go Tap” campaign, Jon Dee attend each of the Qld, NSW and Victorian conferences over the past couple of years as a Keynote Speaker. We in the water industry are well aware of the reliable, excellent quality and amazingly cheap product that comes out of our tap each day, particularly when we compare it with bottled water.

WIOA is very supportive of Jon's efforts to have more water fountains/bubblers installed into public access areas but there is only so much we can do. It is important that each water utility gets behind the “Go Tap” concept and establishes more bubblers. As an industry, we also need to do some positive promotion to the community to let them know where the bubblers are and encourage them to use them.

## Did you know

Recently, research company Pure Profile conducted a survey of 1000 Australians on bottled water usage for Go Tap, some key results were:

### Perceptions of bottled water

- Over 89% of respondents said they believe bottled water is a costly marketing con
- Over 97% saying they believe it is overpriced.
- 80% believe that water has become a fashion accessory for the image conscious.
- 73% think that people who buy expensive water are naive.
- Over 77% do not believe that bottled water is safer and cleaner than filtered tap water.
- Over 76% were concerned about the impact of bottled water litter on beaches during the summer.
- Over 85% said they did not believe bottled water should cost as much as petrol.

### Bubblers

- Over 78% of people believe there are not enough bubblers available to the public.
- 90% do not know where their local water bubblers are, and do not believe they are easy to find.
- 85% are concerned about the safety or cleanliness of public bubblers.
- 66% said that if greater number and quality of bubblers were available, they would buy less bottled water.

### Alternatives to bottled water

- 93% said they used a refillable water bottle at least occasionally, with 22% using them always, and 34% using them most of the time they want a drink.
- Nearly 70% use, or are considering buying, a home water filter.
- Nearly 39% were not aware that restaurants are required by law to serve free tap water.
- Over 32% were embarrassed to order a glass of tap water in an expensive restaurant.

## Consumption of bottled water

- The current economic turmoil has caused 40% to reconsider buying bottled water.
- 74% of people surveyed report that they spend up to \$10 a month on bottled water
- Close to 16% say they spend between \$11 and \$20 per month.

## Fact check

- Australians spend more than half a billion dollars a year on bottled water.
- Australia's annual use of bottled water generates more than 60,000 tonnes of greenhouse gas emissions – the same amount that 13,000 cars generate over the course of a year.
- At least 50 million litres of oil is used in the manufacture and distribution of bottled water in Australia every year.
- Australia recycles only 36 per cent of PET plastic drink bottles.

Source: *Bottled Water Alliance*



## WATER BUBBLER IN MYRTLEFORD

In June 2012 North East Water honoured a commitment to supply a drinking water re-fill station unit to the township of Myrtleford. This commitment was made to the members of the Myrtleford Reference Group during the construction of the town's water treatment plant which was officially opened in October 2011.

Through an extensive community consultation process, the decision was made to construct a new state of the art dissolved air flotation and filtration system (DAFF) technology water treatment plant to remove algae and sediment from the water as well as delivering a low dose of residual disinfection for safe, high quality drinking water.

The re-fill station was supplied by Arrow Alpha Industries in Sydney and installed in the new open space area off Clyde St, Myrtleford. Alpine Shire agreed to install the water station at their cost and be responsible for future maintenance and upkeep. The drinking water is supplied from the Buffalo Creek catchment area through the Myrtleford Water Treatment Plant.



*WIOA President John Day at the newly installed Myrtleford water bubbler.*



*A local pooch benefits as well.*



## BIRDS EYE VIEW

### Macquarie Point Wastewater Treatment Plant – Hobart Tasmania



**ANAEROBIC DIGESTERS**

The Macquarie Point TP was originally constructed back in 1965/6, it had manual screening, 2 x primary sedimentation and 3 x anaerobic digesters in the first stage. The plant had two major trade waste contributors, the Cascade Brewery and a Tannery discharging into the sewer main with a pH range between 2 to 12 within minutes on the inlet. The Hobart City Council decided that before any upgrades to the plant could be done they would carry out a series of pilot plant studies using different types of media to see which one performed the best under these conditions.

Once a decision was made the council upgraded the treatment plant in 1988 to a high rate trickling filter plant with secondary sedimentation and chlorination plus a fourth digester. All the design and construction was carried out by council engineers and the outside labour workforce which wasn't a bad achievement by local government in those days.

**PRIMARY SEDIMENTATION**

To have your facility featured in Operator contact Craig on 03 5821 6744.



## HOBART



Macquarie Point TP is one of two plants that accept liquid trade waste in Southern Water.

**SECONDARY SEDIMENTATION  
TANKS AND CHLORINATION.**

**HIGH RATE TRICKLING FILTERS  
WITH ODOUR COVERS,**

**N TANKS**

Plant Design Limits:

- ADWF 18ML
- BOD 40mg/l
- NFR 60mg/l
- Micro <100 to 1000ml
- The average daily flow is around 11.5 ML.

**Contributed by Lester Little, Southern Water**



## CORPORATE MEMBER NEWS

### An Organic solution to Combat Fats, Oils and Greases

In this day and age of Green Business, where do companies look to find a solution to combat the build-up of fat, oil and grease, without it costing the Earth?

It's estimated that fat, oil and grease causes approximately 70% of blocked drains and related flood damage, necessitating a genuine commercial need to clear clogged drains. But how do organisations manage this without the environmental impact that can be almost as costly as the blockages.

Organically combating the cause of fats, oils and grease build-ups within waste systems can result in companies being void of expensive effluent legislation, as the key attributes of organic catalysts is their ability to cause an immediate catalytic breakdown of the molecular structures of organic contaminants.

Organic catalysts are also distinguished by their unique ability to increase gas transfer rates and the level of dissolved oxygen (DO) within water, thereby facilitating nature's own mechanism for the life-sustaining quality of water and soil. Both attributes are critical requirements for the advanced treatment of contamination.

Organic catalysts can be highly concentrated, completely non-toxic liquid formulations, which are either injected directly into wastewater streams or deployed through spray or fogging systems. It is complimentary to virtually all microbiological systems and chemical purification processes, and contributes to the enhancement of these operations.

Able to work in conjunction with oxidizing agents, organic catalysts can substantially reduce the amount of oxidizing agents needed to perform purification requirements, and aid in improving removal of bio-films, which is critical to eliminating pathogen growth and the fouling of filters and membranes.

Despite the management of waste watercourses that can cause blocked drains being taken increasingly more serious by authorities, not everyone is aware of their responsibilities and the consequences of falling foul of the legislation.

Organic catalysts can meet this challenge by reducing the contamination to our environment and eliminating the waste byproducts produced by industry, agriculture and population centers.

EcoCatalysts are continually seeking new ways to ensure extremely high levels of treatment plant performance and work to supply economic, efficient and environmentally friendly wastewater treatment outcomes. By utilising the power of nature, our high performance catalysis technology for wastewater treatment is unparalleled.

**Contributed by Scott Neilson - EcoCatalysts**



*Grease before*



*Grease after*

## WIOA CONFERENCES AND EXHIBITIONS - 2013 PRIME SPONSORS

We are pleased to announce that Automation Group, Acromet, Peerless Epigen and Xylem will be continuing as Prime Sponsors of WIOA's three major conferences in 2013. These events will be held in Canberra in April, Gold Coast in June and Bendigo in September 2013.

It is vitally important that companies take up these premier sponsorships as they help WIOA to continue to deliver successful operationally focused events, at affordable rates. We would like to take this opportunity to again thank these companies for their support. If your company is interested in becoming a sponsor, a number of opportunities still exist. Call WIOA today to request a copy of our Sponsorship Prospectus.





## XYLEM HELPS IN US CLEAN UP

Hurricane Sandy hit North America's eastern seaboard in October 2012 with winds of 128 km per hour and record-breaking tides. Over 1,600 km wide at times, Sandy brought major devastation to a very large geographic area and millions of people.



Xylem were ready for Sandy, repositioning approximately 200 pumps into the impact area before the storm hit the east coast of the United States on Monday, October 29.

President and CEO at Xylem, Gretchen McClain said "this is an opportunity for us to engage with expertise and equipment" and of course various pumps under the Xylem banner were put to good use after the storm. These included the diesel driven pumps from the Godwin range which could remove 37ML of water each day.

Xylem crews concentrated on the worst hit areas in Central and North New Jersey including Lake Como NJ, Long Island and New York City working at the World Trade Centre and Goldman Sachs buildings. Crews also assisted in the dewatering of two of the four underground train tubes for Amtrak under Penn Station using both Flygt submersible and Godwin ground-mounted pumps in the cleanup.



**xylem**  
Let's Solve Water

FLYGT

godwin

LEOPOLD



SANITAIRE

WEDECO



## 2013 MEMBERS DRAW



All paid up, individual WIOA members are automatically entered into the draw.

(Conditions Apply)



another bright idea from Royce Water Technologies  
[roycewater.com.au](http://roycewater.com.au)



## Bendigo Tap Water Wins Inaugural Orica Victorian Water Taste Test Award

A highlight of the WIOA conference in Bendigo was the inaugural staging of the competition to find the Best Tasting Water in Victoria. Four finalists were chosen by delegates at the welcome reception on Tuesday evening using a “Masterchef” style blind tasting.



*Taste Test heats on Tuesday evening.*



*Casting a vote in the Taste Test heats.*

The four finalists; Gippsland Water, East Gippsland Water, Coliban Water and Yarra Valley Water were then pitted against each other in the Grand Final held at lunch time on Thursday. The samples were judged by a panel of technical water experts and industry connoisseurs.



*Adrian and Ryan with the Taste Test perpetual trophy.*

The judges votes were locked away until the Thursday evening Awards Dinner where Coliban Water was announced as the inaugural winner of the Orica Victorian Water Taste Test.

Coliban Water Managing Director Jeff Rigby said the corporation was proud to receive the award. “This award is a great achievement for the business and our contractors, who play an important role in treating and delivering high quality water to our customers.”

“Bendigo has world class drinking water facilities and it’s great to have the quality of Bendigo tap water recognised,” Mr Rigby said.



*Jeff Rigby, MD of Coliban Water (L) being congratulated by Matthew Carr from Orica.*

The Orica Victorian Taste Test Award was about raising awareness of the quality of the state’s drinking water. The award recognises the efforts of local water service providers, but more importantly the role WIOA members play in delivering valuable water services to their communities.

### Orica Taste Tests all over Australia

WIOA will hold similar taste tests in NSW, Tasmania and possibly the Northern Territory in 2013. Orica has come on board as the naming rights sponsor for all these events and we thank them for supporting this initiative.

**NSW** - The NSW conference in Canberra during April will provide the ideal opportunity for councils to compete for bragging rights of having the Best Tasting water in NSW. All councils are invited to send delegates along to the conference - so why not send a sample of your tastiest water along with them for judging.

**Tasmania** - A Tasmanian Water Taste Test will be staged in conjunction with a charity golf day. Dates and venue is still to be confirmed. Again, we will be inviting all water providers to bring along a sample of their best tasting water to be in the running for your community to be able to brag they have “the Best Tasting water in Tasmania”. Golfers and Corporate supporters of the Charity Golf Day are asked to keep an eye out for more information in the New Year.





## VICTORIAN CHARITY GOLF DAY

Continuing the tradition that was commenced in 1999, the annual WIOA Golf Day was held at the Garfield Golf Club on 21 October 2012. The teams were competing for the honour of winning the 'Tradies Cup', a most prestigious trophy that adorns the names of some very talented individuals and teams, who have represented their organisations with distinction.

On a testing Garfield layout, a thirty strong field braved the windy and damp conditions, competing not only for the coveted title but also for a vast array of prizes that were provided by the long list of very generous sponsors.

Playing the very popular Ambrose format, the shot gun start saw teams of three players hitting off from various tees around the course at around midday. The format requires the three team members to play their shots from the same position, with the best of the three shots determining where the next shots will be played from. This provides the opportunity for players to 'open the shoulders' to an extent, and play an aggressive style of golf, with a lot of laughs. In theory, (not always in practice), scores will be lowered, given the opportunity of having three attempts at the same shot.

The teams' handicaps (calculated in a manner not dissimilar to the complex Duckworth-Lewis system) are applied to the gross scores to determine the handicap winner.

The winning team with the lowest score was none other than WIOA's Craig Mathisen with Arun Nandini and David Brett.



*Best score of the day – Arun, David and Craig (L to R).*

The winners of the coveted "tradies cup" was the IOTA team, represented by David Wigg, David Norris & Ross Newman. Their gross score of one-under par (net score of nine-under par), narrowly defeated a number of rival groups. The team name will now join other illustrious winners on the perpetual WIOA trophy.

A great day was had by all with special thanks to Craig, George and Owen for the meticulous organisation of the event, steady drinks supply and running of the raffle with monies to be donated for a good cause as done in previous years. Over \$50k has been raised throughout this time and WIOA is to be commended for this terrific community support – well done. It'll be great to see an even bigger group of like-minded people to come together next year to challenge each other for a good cause.

Everyone appreciated the warm welcome and quality of food prepared by the Garfield Golf Club

**Contributed by Ross Newman, South East Water**



*Golfers at the start of the 2012 event.*



*Thermo Fisher drink cart.*

## Nigel's Day Out

For reasons known only to him, Nigel Langridge, (PAAS Director and Rod's boss) woke up on Sunday morning intent on participating in the WIOA golf day in Lang Lang. God only knows why, as the WIOA golf day was in Garfield and to my knowledge it has never been at Lang-Lang (the invitation was on Nigel's notice board in his study at home).

Off Nigel trotted to Lang Lang and when he got there he couldn't see any cars or signage but believed he was just early (he did get there around 11am). He unpacked his golf bag and buggy and put his shoes on and proceeded to the club house. When he asked for the WIOA golf day they did not know anything about it. He decided to call home to just check the invitation. His daughter answered and after checking the invitation laughed and told him – Garfield not Lang Lang. Nigel decided not to bother to race back to Garfield as the golf would have already been well underway by 1.30pm when he would have made it back there.

Just a few little points – Nigel lives in Berwick and would have pretty well driven past Garfield to get to Lang Lang, about another 40 km away. He also played in the 2011 event IN GARFIELD (see photo below to prove it).

The PAAS team look forward to playing in the 2013 golf day but one thing is for certain, Nigel won't be driving.

**Contributed by Rod Norman, Piping and Automation Supplies**



*Nigel picking up his wayward ball from the Garfield car park 2011.*

# CONDUIT INSPECTION CODE

The Water Services Association of Australia developed the **Conduit Inspection Reporting Code of Australia** (WSA-05) to provide guidance for Operators of Closed Circuit Television (CCTV) Equipment.

The WSA-05 Code was developed as a result of the Utilities Industry's requirements for consistency, reliability and accuracy of survey reports as well as a means by which Operators can be qualified with valid credentials and the ability to monitor their performance.

The original Australian Conduit Condition Evaluation Manual (ACCEM) was based on the British Manual of Sewer Condition Classification and the European Code.

The WSA-05 Code provides a uniform standard coding system for recording and comparing defects and features that are observed as a result of inspection of conduits and structures. By defining codes to be used to describe the various observations, the Code establishes a system to ensure that every operator uses the same terms to objectively record the information from inspection. Asset managers reviewing a report will be able to assume the same meaning to each reported code and description.

The WSA-05 Code outlines the General Scope, Definitions and Coding Specifications when surveying / inspecting wastewater systems constructed of various shapes and many different materials.

Section 2 of the Code provides Requirements for the General Conduct of Inspections which includes:

- Training and Accreditation of Personnel
- Planning for the Inspection
- Preparation of the Conduit
- CCTV Camera
- Camera Operation
- Linear Measurement
- Data Display
- Inspection Report

## Training & Accreditation of Personnel

Operators who are responsible for the identification and recording of defects, service conditions and other features must be suitably qualified. This means that they should hold a Statement of Attainment issued by a College / Registered Training Organisation (RTO) in NWP331B Inspect Conduit and Report on Condition and Features or an equivalent qualification which meets the requirements of the Code.

All works conducted within the conduits shall be performed in accordance with the requirements of the Confined Space Code of Practice and the Work Health and Safety Legislation. Water Authorities and / or Councils / Shires who are the asset owners may require CCTV Operators to be qualified and provide evidence in accordance with the Code.

Supervisors and / or Managers responsible for the performance of such CCTV Inspection works must also be appropriately qualified and accredited.

This means that they should hold a Statement of Attainment issued by an RTO in NWP440A Supervise Conduit Inspection and Reporting.

## Purpose of Inspection

The purpose of the inspection must be clearly identified using the appropriate purpose inspection code. The WSA 05 Code has 13 different inspection reasons on offer:

**NC:** Final inspection of newly constructed sewers

**W:** End of Warranty Period and handover process of assets

**R:** Routine Inspection

**RC:** Final inspection of rehabilitated sewers (all pre relining inspections for sewer shall

**SE:** Suspected Structural Problem / Exam

**OE:** Suspected Operational Problem / Exam

**IE:** Suspected Infiltration problem / Exam

**L:** Locating a conduit / connection / junction / structure

**T:** Transfer of Ownership

**IP:** Investment Planning

**C:** Completion of earlier abandoned inspection

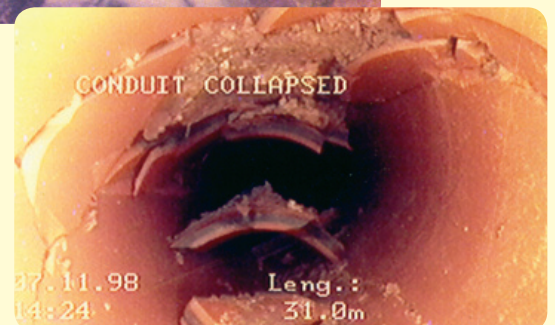
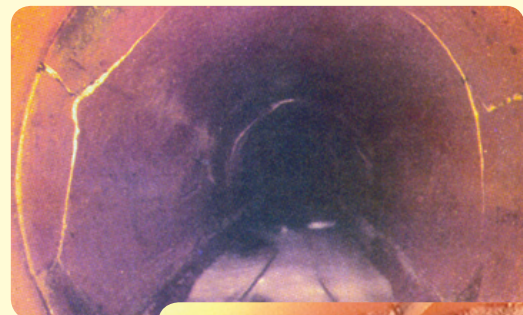
**S:** Sample inspection

**W:** End of warranty

**Z:** Other; Record reason in Comments

The bottom line for the Inspection and Reporting of Defects and Features is to reduce the subjectivity to a level which can still provide a reliable result using the Code.

**Contributed by: Ron (John) Allen**





## Getting the Message Out

Danny Roberts from Port Macquarie Hastings Council produced a poster which he presented at the NSW Conference in Tamworth in 2012. The idea came about after Danny attended one of WIOA's Distribution seminars where the "Think Pathogens" message is strongly emphasised.

Danny wanted something he could put on the wall of the water treatment plant as a continual reminder of what needs to be considered when running a system. We thought others may like to share the idea. The PDF of the poster is on the WIOA website in the past papers section if you would like to download and print one for your plant.

The Editor

**Danny Roberts,**  
Water Treatment Technical Officer,  
Port Macquarie Hastings Council

**CHLORINE RESIDUAL**  
FREE CHLORINE FORMED  
AFTER BREAKPOINT

**TOTAL CHLORINE**  
BOUND + RESIDUAL -  
Residual should be at  
least 90% of total

**CHLORINE BREAK-POINT**  
EFFECTIVE KILL - RESIDUAL  
FORMED

**PHYSICAL QUALITIES**  
ALL WITHIN GUIDLINE  
VALUES

**CHLORINATION CONTROL**  
MUST NOT BE  
COMPROMISED

**REMOVED BY**  
ULTRA FILTRATION/CLARIFICATION/  
ULTRA VOILET LIGHT

**PROTOZOA**  
CRYPTOSPRIDIUM / GIARDIA

**BACTERIA**  
E.COLI VIRUSES



**THINK  
PATHOGENS**

## CHARITY DONATION TO CANTEEN



From left to right – Danny Crab, David Mawer (Gippsland Water), Katie Wilson, and Erin Belkowski.

Gippsland Water recently presented a donation on behalf of the Water Industry Operators Association of Australia (WIOA) to the charity CanTeen.

Managing Director David Mawer presented the \$1500 donation to CanTeen, which was collected by the WIOA through its fundraising activities such as the Charity Golf Day, and raffles conducted at its conferences.

CanTeen is a support organisation for people aged between 12 to 24 years old living with cancer, and is the only organisation of its kind in Australia.

Erin Belkowski, a spokesperson for CanTeen, said she would like to thank Gippsland Water and the WIOA for the generous donation, and hopes to continue the relationship in the future, and create more awareness of the charity.

## AHOY SKIPPER

Some Victorian members may remember Rodney Gibbons who was the water treatment plant operator at Lorne some years ago. Since leaving the water treatment industry, Rod has maintained his interest in water and for a number of years has been the Captain of a variety of yachts working with some of the world's rich and famous. The photo below is of his latest boat to drive while he's in Europe.



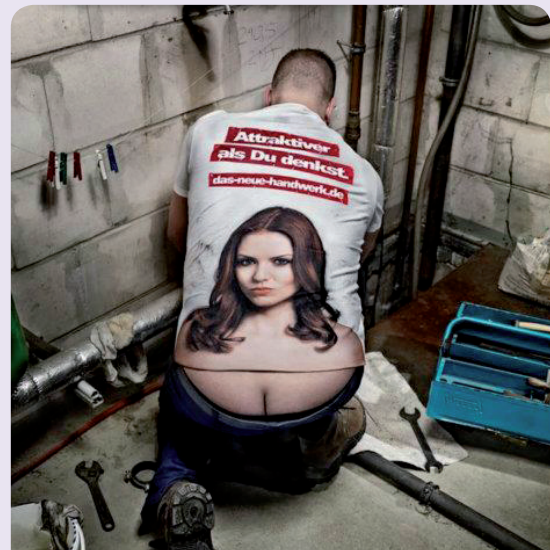
## WINNERS ARE GRINNERS

Edward Zapanta was drawn out as the winner of the charity raffle for the iPad at the Bendigo conference in September. An elated Edward is pictured with Gavin Snoxall from Challenger Valves, the very generous donor of the raffle prize.



## THE LIGHTER SIDE

Finally, a clever inventor has come up with a simple solution to an age old problem – the plumber's butt crack.





# WORKPLACE MENTAL HEALTH



**Equipping organisations with the awareness and skills to manage common mental health problems at work effectively.**

## Did you know...

Depression and anxiety disorders are the second leading cause of disability and mortality in Australia. Nearly three million people experience depression and/or anxiety each year, and unlike many physical illnesses, depression and anxiety impact on people during their prime working years. Effective treatments are available but 50 per cent of people do not seek treatment

## The impact of depression in the workplace includes:

- Three to four days off work per month for each person experiencing depression
- Over six million working days lost each year in Australia
- 12 million days of reduced productivity each year.

## beyondblue is guided by the following:

**We recognise** - that workplaces provide a relevant and appropriate setting in which to address the issues of depression and anxiety.

**We know** - that workplaces often don't know what to do to address depression and anxiety or how to do it. We aim to address this knowledge and skill gap.

**We know** - that workplace factors can contribute to poor mental health.

- Research indicates that work and the workplace impacts on a person's mental health, either positively or negatively.
- In turn an employee's mental health affects the workplace. Mental health problems (such as depression, anxiety and related substance use disorders) are common and they have an impact on individuals, their families and co-workers, and the broader community.
- Mental health problems also have a direct impact on workplaces through increased absenteeism, reduced productivity and increased costs.
- Results of the VicHealth and Melbourne University Estimating the economic benefits of eliminating job strain as a risk factor for depression<sup>3</sup> study found that "job strain", where workers have little control over their job but are under high pressure to perform, accounts for 17 per cent of depression in working women and 13 per cent in working men.
- According to this study, job-related depression costs the economy \$730 million every year. This includes lost productivity due to absenteeism and presenteeism and government subsidised medical care, including counselling and antidepressants.

- This equates to \$11.8 billion over the average working lifetime, with the biggest loss accruing to employers through lost productivity. The report also revealed an \$85 million cost of absences for depressed workers who do not have access to paid sick leave, a significant cost to employees.
- Generally, depression and anxiety disorders, including are not managed well by organisations. In fact, many current management practices, such as recommending time off work or a holiday may compound the problem and make the situation worse.

**Info line: 1300 22 46 36**

**Further information can be found on the beyond blue website: <http://www.beyondblue.org.au>**

## Safe to Operate

Given the focus over many years of "slip, slop, slap", there is some degree of irony in the 80s band "Men Without Hats" singing "The Safety Dance". There is far less irony involved though, when you learn that the song has little to do with safety in terms that most of us use in our daily work!

That was a rather long winded and only marginally relevant introduction and reminder of the recent National Safety Week. This is an opportune time to look at technology advances that improve the safety of Operators. Let's face it, an Operator's job is very important but it's much more important to go home safely each day.

At the recent Victorian Operations Conference and Exhibition held in September at Bendigo, there were a number of safety products on display. There were two in particular that used recent advances in technology that are worth highlighting: Diphoterine (available from Amare Safety) and the "Lone Worker App" (from Iota Services).

While it is better to engineer out a safety issue, there are many times this is not practical or possible. One of the biggest hazards in the water industry is in chemical usage. Historically water has been used for the initial response to chemical splashes; however Diphoterine has been scientifically proven to provide more effective chemical burns treatment. Diphoterine has a specific molecule that allows it to prevent the 6 types of reactions (acid, base etc.). Given this, and its hypertonic nature, it is able to decontaminate a chemical splash both inside and out of the affected tissue.

An old saying goes "no man is an island" except when an Operator is working in isolation. The second safety product to discuss here is a "Lone Worker App". This smartphone app provides a lone worker mode where the position of the phone can be tracked with high accuracy, providing increased safety for staff. This type of application also fits in well with the mobile operator interfaces for SCADA that have been previously discussed in this column.

So, always keep safety in the forefront of everything, and keep an eye out for new technology that might help (and it wouldn't hurt to wear a hat – and dance safely!).

**Contributed by Ryan McGowan, Goulburn Valley Water**

## NEW MEMBERS

Welcome to the following people and companies who have recently joined our Association.

New **Individual Members** include:

Dale Husted, Dale McMahon, Graham McDonald, Simon Smith, Orme Kewish, Ray Thomas, Selwyn Osborne, Scott Moles, Tony Grueber, Chris Anderson, David Kerridge, Mark Gordon, Daniel Priddle, Neil Mahoney, Matthew Brown, Tim Heley, Karen Dunn, Pat Freyer, Ben Maloney, Boonhaung Goo, Aaron Mitchell, Zachary Paton, James Ryan, Grant Sawyer, Jordan Scott, Jacob Smith, Jason Van Der Heyden, Anthony Hose, Travis Wilson, Lewis Miller, Luke Smith, Michael Mahney, Troy Hartmann, Thilini Malalasekera, Brett Kronk, Viknesh Balendra, Mahinda Jayasooriya, Matt Stowe, Thomas Huane, Michael Mills, Tony Bowater, Les Smith, Evan Higgins, Graham Robinson, Dane Ryan, Robert Humphries, Adam Butler, Ben Bessell, Matthew Butterly, Darryl Blake, Kristofer Griffin, Duyen My Nguyen, Andrew Wright, Darren Frecklington, Kelvin Milsom, Stuart Nimmo, Ben Hodgkinson, Peter Frost, Glenn Harris, Brad Clarke, Frances Darmanin, Paul Gravina, Jason Krijt, Heath Munro, Matthew Norris, Sharon O'Brien, Kim Polan, Ray Russell, Dwayne Short, Cheryl Steigenberger, Matthew Taylor, Robert Lovegrove, Nick Lovegrove, Phillip McWatters, Adrian Parker, Richard Turner, Fiona DeWit, Andrew Bowhay, Arun Kumar, Daniel Boylan, Gnesh Sharma, Simon Muir, Shane Torr, Shane Moran, Norman Gladal, Shane Guley, Jay Cooper, Nirupama Vemuri, Ashley Horworth, Lindsay Buckley, Clay Lamb, Ian Whitty, Phil Orford, Norm Whyte, Craig Maffescioni, Michael Fawcett, Clinton Michael, Paul Selzer, David Thornell, Nick Barton, Tomas Newlands, Andre Hidayat, Myalee Evans, Bianca Goebel, Neal Smith, Brian Mayo, Allan Kent, Mark McFee, Lloyd Wilson, Simon Mom, Charles Boog, Asoka Wijeratne, Paul Harrison & Graham Green.

New **Corporate Members** include:

Water Group, MK Diamond Australia, Hanna Instruments, NSW Water Directorate, Pacific Data Systems, Water Equipment Plus, Advanced Valve Technologies, Haycarb Holdings, Yokogawa Australia, Safety Systems, PMT Water Engineering, Aegis Safety, Pentair Environmental Systems, Prochem Pipeline Products, Hurl Nu-Way, Rhino Linings Australasia, Veolia Water Australia, Observant, Amiad Water Systems, Continental Water, Hychem International and B-R Controls Pty Limited.

New **Utility Corporate Member:**

Busselton Water.



## COMING EVENTS

### 2012

6 Dec RPL Resources Workshop, Brisbane,  
10.00am – 2.00pm (venue TBC)

### 2013

1 Feb Queensland Networking & Social Bowls Afternoon,  
Yandina Queensland  
1 March PASS Award Applications close  
2 & 3 March WIOA Weekend Seminar and AGM, (Ramada  
Resort, Cowes)  
20 March Membrane System Operation & Optimisation  
Seminar, Melbourne  
10 & 11 April 7th Annual WIOA NSW Water Industry Operations  
Conference and Exhibition, Canberra  
5 & 6 June 38th Annual WIOA Qld Water Industry Operations  
Conference and Exhibition, Gold Coast  
20 July Kwatye Award Applications close  
4 & 5 Sept 76th Annual WIOA Vic Water Industry Operations  
Conference and Exhibition, Bendigo

## Office Bearers & Committee

### President

John Day  
Mob 0409 959 841

### Vice President

Russell Mack  
Ph (03) 5177 4659  
Mob 0427 331 586

### Executive Officer

George Wall  
Ph (03) 5821 6744  
Mob 0407 846 001

### Committee

#### Anthony Evans

Phone (03) 5564 7608  
Mobile 0419 103 885

#### Stephen Wilson

Phone (03) 5244 0800

#### Jason Krzciuk

Phone (07) 5424 2359  
Mobile 0417 282 735

#### Damien Lavelle

Phone (03) 6397 7344  
Mobile 0427 977 324

#### Adrian Rijnbeek

Phone (02) 6059 3726  
Mobile 0403 046 548

#### Ronald (John) Allen

Mobile 0403 127 285

#### Graham Thomson

Phone (03) 5226 9109  
Mobile 0408 993 756

#### Ryan McGowan

Phone (03) 5832 0438  
Mobile 0400 055 508

## NEXT EDITION

**Article Contribution Deadline for the  
next edition is 9 January 2013**

**All correspondence should be addressed to:**

The Editor  
PO Box 6012, SHEPPARTON, VIC. 3632  
or email: [Craig@wioa.org.au](mailto:Craig@wioa.org.au)  
Website: [www.wioa.org.au](http://www.wioa.org.au)

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