



SPASA NSW state awards

The 2011 Pool & Spa Awards were handed down at a glittering ceremony at the beautiful Curzon Hall



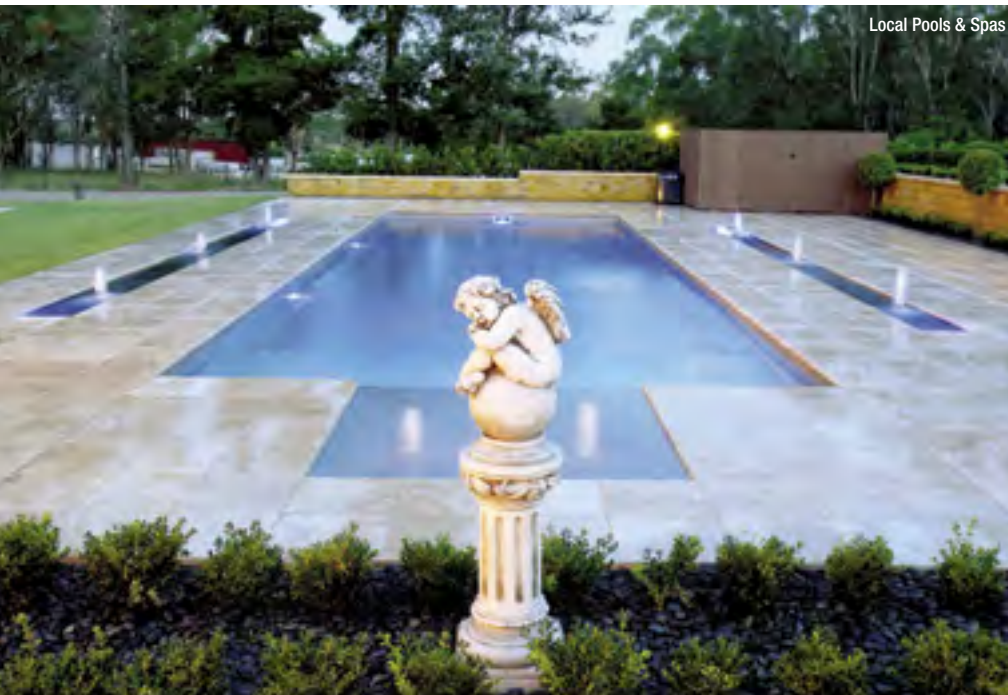
Premier Pools



Polar Pools



Aquastone Pools & Landscapes



Local Pools & Spas

Residential Concrete Pools – Traditional or Geometric up to \$50,000: Gold, Sunset Pools; Silver, Azure Pools

Residential Concrete Pools – Traditional or Geometric over \$100,000: Gold, Polar Pools; Silver, Premier Pools

Residential Concrete Pools – Freeform or Natural \$50,000 to \$100,000: Gold, Premier Pools

Residential Fibreglass Pools over \$40,000: Gold, Local Pools & Spas; Silver, Leisure Pools Canberra

Spas & Hot Tubs: Gold, Local Pools & Spas; Silver, Polar Pools

Renovations under \$25,000: Gold, Sunrise Pools

Innovative: Gold, Capital Country Pools; Silver, Sunrise Pools

Lap Pools: Gold, Splish Splash Pools

Commercial Pools or Spas below \$250,000: Gold, Polar Pools

Residential Concrete Pools – Traditional or Geometric \$50,000 to \$100,000: Gold, Vision Pools; Silver, Splish Splash Pools

Residential Concrete Pools – Freeform or Natural up to \$50,000: Gold, Jade Pools; Silver, Pollard Pools

Residential Fibreglass Pools up to \$40,000: Gold, Tranquillity Pools & Spas; Silver, Local Pools & Spas

Residential Enclosed/Indoor Pools: Gold, Sunrise Pools

Commercial Renovations over \$250,000: Gold, Sunset Pools

Renovations over \$25,000: Silver, Good Manors

Water Features: Gold, Aquastone Pools & Landscapes; Silver, A1 Pools & Spas

Display Pools: Gold, Vision Pools

Renovations over \$25,000: Gold, Freedom Pools Central Coast

Pool Builder of the Year: Winner, Capital Country Pools; Highly Commended, Local Pools and Spas

Pool & Spa Technician of the Year: Scott Pollard, Freedom Pools and Spas, Riverina

Pool Shop of the Year: Freedom Pools and Spas, Riverina

Sales Representative of the Year (Retail): Kristian Every, Poolside Albion Park

Sales Representative of the Year (Wholesale): Chris Smith, International Quadratics

Most Innovative New Product: Glass Effects Pty Ltd, Magna-Hinge

Sustainability Award (Energy): AstralPool, Viron P300 Pool Pump

Sustainability Award (Water): Poolrite Equipment, Magnapool Backwash System



The light fantastic

Why keep the pool in the dark? Kerrie Davies looks at some wonderful ways of illuminating swimming pools so they make a great impact every time the sun goes down.

On a hot dark night, pool water can either be an inky blackness or can glow invitingly as light ripples across the surface.

Underwater lighting used to be generated by unsightly domes that sometimes required the pool drained to be safely changed. Now lighting technology and designers have combined to create stunning effects that shine seamlessly from the wall.

"It wakes up the pool at night," says Jules Harwood of Spa Electrics. "Without lights, the pool is a black hole instead of a feature in your garden."

Underwater lighting comes down to effects and energy efficiency. According to Harwood, there are two main styles of lights: a surface mounted light that protrudes from the pool wall; or a flush mounted light – commonly known as a niche – that is installed on the side of the

pool wall, exposing only the face plate of the light. "It sits flush against the wall and only minimally protrudes," Harwood says. Both can be installed in concrete, fibreglass or vinyl lined pools. Flush lights are preferred for their smooth and contemporary style.

Effects

Landscape architect Marian Spiller from Peter Glass and Associates believes that lights contribute much more than simply illumination.

"You can achieve amazing effects and ambience," Spiller says. "It's limitless."

She explains that lights can be arranged in different beam spreads to achieve an overall glow – or specifically aimed at one point. The effect can be subtle or bright, depending on what's required.

"It depends on the design of the pool

and harmony with the landscape," she says. "Lights can also be used to highlight features walls, fountains or cascades."

David Berryman of Signature Showcase Pools suggests that the effects of underwater lights are underestimated. As well as the decorative element of lighting the pool, it continues the feeling of the "outdoor room" at night, accentuating the overall perception of space.

"In Queensland, the outdoor room is the ultimate goal," he says. "There's only a couple months of the year where you don't go outside. People come home from work late and they can still enjoy the pool and see it."

Berryman is seeing demand for pond style lights – sometimes placed at the bottom of the pool but usually on the wall – that change the colour of the pool rather than its simple reflection. Some lights have multi-coloured



functions that can periodically change the colour of the water across the spectrum.

Spa Electrics offers the multicoloured light LED in ten different programs, ranging from warm and cool whites to bright colours like magenta, as well as gaining a rainbow effect from a blend of multicoloured programs that can either be set on fast or slow blends.

Berryman is often asked to create a specific atmosphere, such as the seaside lights that mimic the ocean hues. He says these are about \$350 to \$600 per light.

Berryman is also interested in marine grade LED lights, which he says are especially suitable for pools with depth. "They're stronger and brighter. Clients really like the landing strip effect."

Demand for different lighting effects varies depending on the location. "In Sydney it's more subtle than Queensland," says John Storch of A Total Concept Pools, Sydney. "And in Melbourne it's even more subtle."

"In Melbourne particularly the pool has to be pleasant to look at, as it is a short swimming season," comments Nathan Kinder of Aloha Pools.

The number of lights used, tile colour, pool finish, light positioning and water clarity can all affect light colour and intensity.

"You really can't talk about light without talking about colour," says Kinder. "In a green swimming pool with a gold tile, this base will impact on the eventual light thrown from the pool by the lights.

"It's like stage lighting in a sense," he says. "It depends on the colour of the swimming pool itself. What colour is a red apple in a black room? The answer is not red. There's no light to reflect the red.

"Most people go for a mid-blue to blue light. There's a funny science in it. We ask the question about what sort of tiles before we think about lights – a dark lagoon pool would need ramping up the lighting with five or six lights. Alternatively with a white tile in the pool, we'll put fewer lights in as you have the reflection."

Position, spas and safety

"In terms of lighting location, we would want to ensure you didn't get spotting," says Kinder. "Nobody wants to sit at a barbecue,



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entertaining their friends and have to put a hand over their eyes because they're getting dazzled.

"If you're sitting in the lounge room, you want to see a lit pool – you don't want to see the light. We hide them in the wall of the pool closest to the living room, so the light is shining away from the house."

Berryman agrees. "It's all about illuminating the pool so it looks nice and lush, rather than a black spot and bright lights. It's about ultimate illumination, rather than patches," he says.

Spas also need lighting.

"Spa lights are specifically made for spas," says Ken Pickford of Sapphire Spas, who has the My Spa Effects Liquid & Light designed to interact with the movement of the water.

"On a spa, you put between ten and fifty little lights, so you light the perimeter of the spa and the controls. With the liquid light they are waterfalls like in a casino but shoot above water," Pickford says.

An evening swim is refreshing after work. A well-lit pool illuminates the water to allow adults to properly supervise children using the pool after dark and also to add to the



Early "eyeball" LED lights have developed into lights that are three times brighter. One of Glow & Flow's Slimline36 lights can illuminate light an 8m x 4.5m pool

"If you're sitting in the lounge room, you want to see a lit pool – you don't want to see the light. We hide them in the wall of the pool closest to the living room, so the light is shining away from the house."

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enjoyment of the evening experience.”

“Many of us do not have time to swim during daylight hours,” says Jules Harwood. “Installing underwater pool lighting allows you to swim safely and enjoy your recreation time in the pool at night.”

Lights also contribute towards overall safety both within the pool and by enhancing surrounding landscaping lighting.

“It’s important to light around the stair area,” Marion Spiller says, as another safety consideration.

“You need external lighting too,” Berryman says. “It adds to the atmosphere. For example, deck lights create a boardwalk for a beach theme – but they also add to safety. You don’t want kids running around in the dark when there’s a crystal clear fence.”

Efficiency

Spiller and Berryman agree that LED lights have made lighting pools easier and cheaper.

“LEDs last around 15 years, so they don’t have to be changed like the old halogens,” says Berryman. The low voltage LEDs are sealed, so are waterproof unless the light canister is broken.



Grate innovation for smart pool surrounds

Stormtech specialises in narrow stainless steel trench drainage solutions for pool surrounds, paved areas, courtyards and balconies, as well as for bathrooms, showers and other wet areas.

For outdoor applications, Stormtech’s 65AG100 and 38G90 Special Assembly products remain unique on the Australian market. They are narrow profile, high capacity drainage systems that allow for flexibility in landscape and pool design and construction, including wet edge or infinity pool situations. This patented manifold drainage system reduces the need for traditional wider grating. It is composed of a PVC channel with outlets every 200mm connected via downpipes to corresponding sockets in the pipe below. This allows the channel to be installed level while the pipe is given sufficient fall to be self-cleaning. The Special Assembly is then completed with a stylish slimline stainless steel grate.

The product is also used as accessory drainage within or around the coping to help protect garden and grass areas from contamination by pool water or to reduce the impact of stormwater on the pool water system.

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Successful lighting depends on how it harmonises with the pool and landscape. This project is designed by Peter Glass and Associates

He adds that LED malfunctions are rare on the whole – and only in those cases would you be required to change the whole light. Halogens only need the globe changed but have a much shorter burn time.

In sheer hours, a halogen will last just 1200 hours while a LED is expected to last for on average 50,000 hours. "It's recommended you check how many hours of burn time you should expect from your LED light," says Harwood.

Efficiency wise, the LED wins hands down. "A 100 watt halogen light draws 75 per cent more power than an LED," Harwood says.

While solar underwater lights are on the market, Berryman isn't yet convinced of their performance.

"The most popular lights are LEDs," Marion Spiller agrees. "That's where the market is now."

LED lights can be retro-fitted into an existing pool to replace the old halogens.

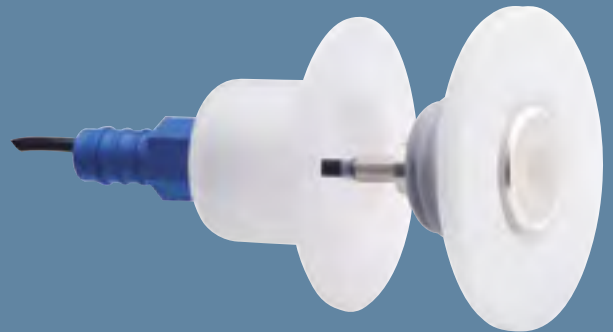
"Pool light problems are the number one complaints from pool owners," says

"Use the pool light at least 15 minutes per week, as this will aid in removing any excess moisture within the light cavity and increase the longevity of the globe."

Eva looking for Australasian representation

THE EVA Optic Q1 has a very wide beam, ensuring an evenly lit pool down to the bottom without dark corners. The Q1 also has a very high light output (similar to 150W halogen), while energy consumption is only 15W. Above all, the EVA Optic is compact, with the overall diameter of the lamp with integrated cover plate only being 100mm. This makes the underwater lamp not only suitable for swimming pools but also for paddling pools, pool steps, shallow ponds, Jacuzzis and whirlpools, etc.

Eva is currently looking for Australasian representation. Eva's contact details can be found at the Blue Pages print or online trade directory.



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Doug Kersey, of Glow & Flow Lights, an Australian manufacturer of LED pool lighting. He says that early "eyeball" LED lights have developed into lights that are three times brighter, including the aptly named Superbright.

"These retrofit lights are great for pools without existing provision for lights," Kersey says.

Meanwhile, LED Pool and Landscaping offers LED underwater floodlights, which incorporate three high powered LEDs encased in stainless steels, and are submersible up to nine metres.

But halogen still has its uses. Storch is currently working on a 25-metre swimming pool on acreage property on the NSW Central Coast.

"We're going retro and using halogen lights," he says. "The pool is elevated on three sides by several metres and the pool extends away from the home as a central axis point. The property is inland and has no neighbours so nights are very dark. Because of the uniqueness of the site with no ambient light from neighbours we have identified an opportunity to do something quite different.

"All underwater lights require a waterproof rating of IPX 8 and new installations must not exceed 12V AC or 30V DC."

"At the house end of the pool we will install five halogen lights facing towards the horizon and turned slightly down. Because of the weaker nature of the halogen lights and the long length of the pool, the intent is that the lights will be very bright and strong at the source but will dissipate over the length of the pool to darkness at the end – creating a graded light effect to nothingness, similar to the effect of light spilling from the house to the pitch darkness around."

Accessibility

"Always ensure your lights are positioned,

installed and accessible, leaving enough cable length behind the light for ease of servicing," says Harwood.


"The depth of the light should be between 300mm and 400mm from the top of the coping – any deeper will make the light difficult to service."

Harwood further says that all underwater lights require a waterproof rating of IPX 8 and new installations must not exceed 12V AC or 30V DC.

"Your light must be cooled at all times," Harwood says. "It must never be turned on unless it is completely submerged in water, otherwise damage will occur."

And use the pool light at least 15 minutes per week, as this will aid in removing any excess moisture within the light cavity and increase the longevity of the globe.

It's also an excuse to light up the pool on a hot, dark night.

For more information and contact details on pool and landscape lighting suppliers, go to www.splashmagazine.com.au and click on the Blue Pages online trade directory link, or use the Blue Pages hardcopy print version. 

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Getting your team firing on all cylinders

Business Coach Steve Smit discusses the importance of a motivated team.

They say no man is an island, and nowhere is this truer than in business. Successful business owners realise you can only get ahead if you've got a good team with you. But the challenge for most business owners is how to transform your staff into a high-performing team.

The key is to know how to get your team firing on all cylinders. Let's be clear here, when we're talking about firing on all cylinders, we're not talking about having some sort of rah-rah motivated team that is throwing around high fives in the workplace, because the truth is, some days people are motivated and some days they're not. What separates high performance from good performance is just like a well-tuned engine – the continual consistency of its output is what makes the difference.

To get more energy out of your team you have to look at the most important thing first – the energy that you are putting into your team. If you are tired, negative, cynical or resigned, you can't expect your team to step up. The leadership that you put into your team is the output that comes out the other side.

You need to hustle, pick up the pace and set and maintain high standards so things get done.

Remember that regardless of what anyone will say to you, your team looks at you as an example of what is required from them. The more you drop your pace and standards, the more they will too.

How do you keep your team on track? Most business owners have a tendency to avoid meetings. I'm not talking about sit-down meetings that drag on for hours, but the stand up type of get-together where you paint out a direct picture of the work ahead. Or on a bigger scale, where the business is heading.

By putting off communicating with your team, problems fester and over time small problems becomes large ones. Gossip, rumours and other negative behaviour comes out. It's important that you communicate regularly with your team. Make sure you have at least monthly, if not weekly meetings, to discuss what's happening in the time ahead, what needs to happen, what are the time frames you're looking at, and also give them feedback on performance. How often you meet will set the tempo of the performance of your business.



“To get more energy out of your team you have to look at the most important thing first – the energy that you are putting into your team.”

Many business owners have the tendency to keep their directions and plans for their business bottled up in their own heads. They often wonder why no one seems to take any initiative in the business, but it's hard for any team members to take initiative when they don't know where they're heading.


That's why it's important to make sure that you've got a plan. I'm not talking about a formal business plan here, but even a month-by-month plan of what needs to happen, what the direction is, what are the new projects you're working on and what are the outcomes that you need to achieve. These are all important aspects of getting your team to help take the load.

Make your plan visible. White boards are great to use as focal points for your meetings to discuss what your plans are and what your expectations of your team are.

Stop answering all your teams questions of you. Often we micro-manage because we want things done right, so we end up training our team to be terrified of making the wrong decisions. This leads to them asking an endless stream of questions which often they could just have well answered themselves. Don't be afraid to pause and say "What do you think we should do in this case?" You will be amazed how many of those annoying questions disappear when you start getting your team to think for themselves.

Lastly, remember to catch people doing things right. High standards are important and you need to pull people up on them, but you also need to let people know when they've done a great job. Verbal recognition of a job well done is one of the most simple but also most powerful things that you can do to increase your team's energy and enthusiasm.

By stepping up, planning out and communicating, you too can train your staff into a team firing all cylinders.

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Image shows the thermal pool just outside of town at Lightning Ridge – a great place to warm up on a cold night



In SPLASH! Commercial we focus on big and small commercial swimming pools including resort pools and spas, water parks, competition pools and municipal projects. We examine issues of importance to commercial pool builders, designers, management and staff, while taking a look at some of the latest aquatic happenings around the region and the world.

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Managing risk at leisure facilities

With increased litigation becoming the norm across the industry, it is the responsibility of facility teams, management companies and councils to ensure that all necessary control measures and systems are in place.

Litigation is often the result of unmanaged risk, and although it can be attributed to any area of the business, it is most commonly associated with OH&S hazards that lead to the physical injury of patrons, contractors or staff.

Many control systems already exist and are embedded in the leisure culture. These include the provision of qualified staff, safety signage, equipment maintenance and emergency procedures. Others are associated with first aid provisions, contracts, communication systems and incident reporting.

However, many of these measures are not appropriately scrutinised. Although they may be implemented and utilised, they are often not reviewed to establish whether or not they can be developed or even whether they still fulfil their original purpose. With daily management tasks consuming time and resources (as well as the regular movement of key staff), these tasks are often overlooked despite their importance.

All individual control measures are also recommended to be managed within an overall Risk and OH&S framework – AS/NZ ISO 31000:2009 (Risk Management) is the key to this. By utilising the full framework, facilities are better able to ensure that reasonable and appropriate treatment measures are in place to manage identified hazards. These treatments should aim to remove the hazard altogether, or to reduce either the likelihood or the consequence.

“Owners and operators are the experts at their given facility, and should lead in all aspects of decision making and system implementation,” says Andy Dennis of Life Saving Victoria.

“However, it is recommended that independent expert advice is sought on key matters of risk and safety. And for facilities that incorporate aquatic areas, this should include regular safety assessments from the respective State Life Saving branch,” he says.

Risk Management Framework (Source: AS/NZ ISO 31000:2009)



Clause 6 (Source AS/NZ ISO 31000:2009)



Matthew Griffiths, National Manager of Aquatic Industry Services at Royal Life Saving (RLSSA), says that Royal Life Saving supports the implementation of a risk management framework in all aquatic and leisure facilities.

“Risk management utilises a practical approach in order to deal with risk and is a core principle to the application of the Guidelines for Safe Pool Operation,” says Griffiths.

“The implementation of risk management into a facilities operations and decision making can seem to be a daunting task, however operators should be reassured that a number of elements of the risk manage-

ment process most likely already occur within their operation,” he says.

An example may include daily checklists or incident report forms that may contribute to risk identification, evaluation and monitoring.

“It is important for facility operators to take the opportunity at this time of year to form an understanding of risk within their facilities, be clear on what is an acceptable level of risk and ensure a framework is in place to continually identify, treat and review risks.”

Operators should consult with their State Life Saving Branch for more information or assistance. ☺

New waterpark takes flight

The waterslides actually emerge from the exit doors of the 747



Splashdown Harbor celebrates space exploration – and re-entry



A helicopter dumps the water on patrons

The Evergreen Wings & Waves Waterpark has opened in McMinnville, Oregon in the USA. It is billed as an “educational waterpark” with ten waterslides and a wave pool, as well as a children’s museum dedicated to teaching students about the power of water.

The incredible focal point of this aviation-themed waterpark is a real Boeing 747 which has been turned into a ride containing four waterslides. The inner-tube and body waterslides descend from the plane’s rear exit doors, bracing guests for exhilarat-

ing nose-dives of their own. One of these sensational waterslides even spirals guests with full-throttle centrifugal force into a SuperBowl, before making a final descent into a shutdown lane.

Inside the waterpark’s 6000 square metre indoor facility, guests will also discover an evergreen forest-themed AquaPlay AP1050 structure, featuring another unique customisation: an almost-life-size helicopter at 65 percent to scale. This helicopter dumps tons of water down from a huge tipping bucket, soaking guests of all ages.

Whatsmore, the museum complex includes the original Spruce Goose – the first Hercules transport plane and the largest flying boat ever, designed and built by Howard Hughes in 1947.

It is also home to more than 200 aircraft and exhibits including military aircraft, helicopters, commercial and private aircraft, and an entire building dedicated to space flight.

For more information go to www.whitewaterwest.com.

Addressing third world drowning rates

This year's World Conference on Drowning Prevention was organised by Australia, but held in Vietnam. Matthew Smeal reports.

In May, 435 delegates from 52 countries attended the World Conference on Drowning Prevention in Danang, Vietnam, to address the extraordinarily high drowning rate in low and middle income countries.

The conference also had an ambitious aim: to build a global platform to prevent drowning. The platform was a perfect opportunity to engage the leading researchers, practitioners and policy makers to create the crucial next steps as the issue is taken forward.

The conference was opened by Australia's Governor General, Quentin Bryce, an indication of the Australian Government's commitment to the issue. Her Excellency also visited one of Danang's SwimSafe programs the following day. SwimSafe is an adaption of Royal Life Saving Society Australia's (RLSSA) Swim and Survive program, teaching basic swimming and water safety skills to primary aged children.

The conference was organised and presented by RLSSA and followed on from the World Water Safety Conference in Portugal in 2007.

"Among the key lessons from Portugal was the notion that 96 per cent of drowning occurs in low and middle income countries – mostly in Asia – and mostly through everyday life, not recreational activities," says Justin Scarr, COO of the RLSSA and conference convener.

That represents approximately 300,000 children. In Portugal, it was decided that the next conference should specifically focus on child drowning in low and middle income countries, and should be not be held in Sydney or Melbourne, as expected, but in Vietnam – somewhere central to the issue.

Conference themes were: Drowning Research, Child Drowning, Emergency Response and Medical Issues, Advances

in Lifesaving, Swimming and Water Safety, Disasters and Climate Change, Lifesaving Sport and Development, Partnerships and Programs, and Activities and Occupations. Two additional themes were created – Vietnam in Focus and Drowning in Low and Middle Income Countries – to better reflect the host nation and the conference focus.

Central to the conference program were the "Interactive Tours", several opportunities for delegates to see first-hand the drowning risks associated with Asian life and drowning prevention measures. The tours included cycling through rural and urban parts of Hoi An, experiencing traditional fishing methods, and visiting SwimSafe programs.

Co-presenting the World Conference on Drowning Prevention 2011 was The Alliance for Safe Children (TASC).

"We used to think there were only a few



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things that killed children in the developing world: diarrhoeal disease, respiratory infections, malaria – things like that,” says Dr Michael Linnan, TASC’s Technical Director.

However, village-to-village surveys conducted in Vietnam in 2001, Bangladesh in 2003, Beijing in 2004, Thailand in 2005, Jiangxi province, China in 2005, and Cambodia in 2007, tell a different story.

“Each and every one of those surveys showed the same thing: after infancy, the leading killer in childhood is injury, and one particular type of injury stood out – and that is drowning,” says Linnan.

Furthermore, drowning was occurring in routine, everyday situations, not through recreational activities as is common in Australia. Asian villages are inundated with drowning hazards including rivers, lakes, deltas, ponds, canals, irrigation ditches, wells, and rice paddies.

Almost half the drowning deaths for children aged one to four occurred within 10 metres of the home and 90 per cent occurred within 100 metres.

Results from a four-year study into pilot intervention programs were revealed during



Dr Steve Beerman, shows off a model of a bamboo swimming enclosure with delegates from Bangladesh

the conference. The study showed that a simple crèche program designed to provide supervision to village children reduced drowning among children aged 1–4 by 85 per cent. SwimSafe programs conducted in both rural and urban settings reduced drowning among older children by 90 per cent. The full study will soon be published by UNICEF’s Innocenti research division.

“For the first time we have conclusive evidence that yes, you can intervene in a drowning death in a child in a low and middle income setting; you can do it effectively; you can do it appropriately; you can do it acceptably to the community; and you can do it at the same cost or less than all the other child survival interventions,” says Linnan. 💰

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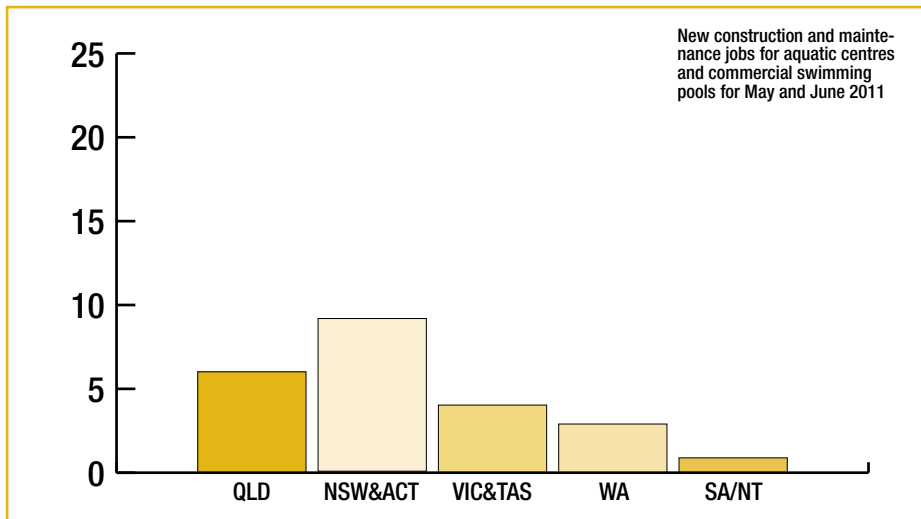
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Latest commercial tenders

CORDELL Information has released data showing new tenders for public swimming pools and aquatic centres for May and June, 2011.

The figures show both construction and maintenance jobs for aquatic centres and commercial swimming pools. Only new business opportunities have been included, not jobs that have been previously advertised.

The figures show tender numbers at 23 in total compared with 38 for the previous period. New South Wales (9) and Queensland (6) had the most tenders.



Tender of the month

Yarra Ranges Council has put out a tender for the construction the new Monbulk Aquatic Centre.

Project: Construction of Monbulk Aquatic Centre.

Close Date: 17-Aug-2011 15:00:00

Tender To (Tendering Body): Yarra Ranges Council Contract No. CT2349

Tenders are invited from suitably qualified and experienced parties for the Construction of Monbulk Aquatic Centre.

To view an outline of the tenders or to download the tender documents free of charge, visit <http://www.yarraranges.vic.gov.au/tenders>.

Please direct download enquiries to 1300 382 582.

For all other enquiries please contact Procurement Services on 03 9294 6461 or use the online forum.

Tenders close at 3.00pm on Wednesday 17 August 2011.

For more information on Cordell Information's commercial tender reports, call 1800 674 120.

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Waterslides make Marion more fun

AMONG the many outstanding features of the South Australian Aquatic and Leisure Centre (SAALC) is a series of waterslides and an interactive water play structure supplied by Polin Water-parks and Pool Systems.

The facility offers a 52m and a 55m swimming pool, water slides, water play structure, a community gym, café and car parking for 560 cars. As well as hosting major events, including the upcoming Olympic trials, the centre is designed to be enjoyed by residents of Adelaide. The waterslides assist in this endeavour, and include a bowl ride, a tunnel ride and an aquatower.



Waterslides at the South Australian Aquatic and Leisure Centre, Marion

Gronborg to speak at SPLASH!

WORLD renowned expert in swimming pool disinfection by-products, Dr Ole Gronborg, will speak at the upcoming SPLASH! New Zealand, to be held on August 17 and 18 at the Te Papa in Wellington. He will present a seminar on newly discovered ways to reduce disinfection by-products in indoor aquatic centres and swimming pools. The system reduces chlorine demand by more than 40 per cent; backwash by more than 60 per cent and energy consumption by more than 50 per cent. For more information call Melanie Robertson on +61 2 8586 6115.

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Cooling Alice

As we know, it's hot in Alice Springs. Nick Karaiste from Crystal Pools updates us on the biggest contract project the town has seen – the recently completed Alice Springs Aquatic & Leisure Centre.

The Alice Springs Aquatic & Leisure Centre has all the benefits and hallmark features of a "state of the art" modern indoor Aquatic Centre as designed by Michael Davies of TompkinsMDA Architects.

The aquatic facilities include a tightly specified eight-lane 25m FINA-compliant competition pool and an adjacent multipurpose pool, which effectively caters for lap swimming, learn-to-swim, water awareness, warm water exercise and a wide range of leisure activities & other program uses.

The multipurpose (LTS/leisure) pool incorporates a zero-level beach entry, a 20m long four-lane learn-to-swim/exercise zone, a disabled access ramp, an in-pool spa and a variable-speed river ride. To add even more excitement and appeal, the facility also includes two fully enclosed "tube-body" slides by Waterslides Australia. While much of the water slide construction is external to the main building, both the 5.4m start platform and the 7.8m long run-out tubs are conveniently located inside the pool hall.

The pool engineering design was provided by Geoff Ninnes Fong & Partners (GNFP). To guarantee optimum service life and easy maintenance, the GNFP design was typically based upon on fully tiled, formed and poured water retaining structures. In combination with the adjacent pool plant room, GNFP's cleverly designed balance tank "run-ins" enabled all pool pipe-work to be either encased in concrete or installed within accessible concrete structures – this is not generally deliverable with other forms of pool construction, but it's certainly possible with well designed concrete pool.

To highlight the scale and the significance of the project, it was widely reported to be the largest single construction contract in Alice Springs history. From Crystal's point of view, the specified swimming pools consumed 900m³ of concrete with 76 tonnes of reinforcing steel. When compared to the option of thin walled stainless steel pool shells (which are often promoted as being "equal" to fully-tiled, concrete pools) I'm confident

that with the materials incorporated into this construction, the installed pools will provide valuable service for a very long time to come.

It's hot in central NT

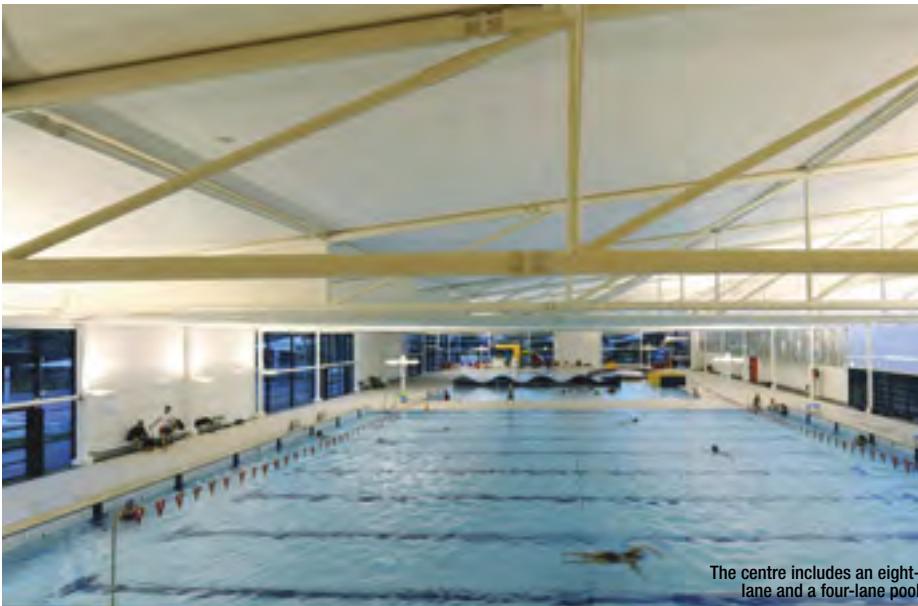
Pool excavation started in November 2009 and was shortly followed up with form-work starting at the end of January 2010. By the end of April, both bare pool shells were completed.

Having completed much the work during the hot summer months, these milestone-dates have become emblazoned in my mind. In November, we had one straight week of 40°C plus. Concrete pours generally started at 2am, but there were several occasions where the work required a 1am start and 6pm finish. Reinforcing steel commonly became so hot that it would blister the skin on contact.

Typically on a hot day, it would reach 35°C by 9am. Once we were done with the heat, the rain started. A local saying in Alice is that you need to see the Todd River



....but begin and end in the cool pool hall



The centre includes an eight-lane and a four-lane pool

Project details

Project Cost: \$18.3m

Official Opening: April 17, 2011

Principal: Alice Springs Town Council

Project Manager (Construction): CAT Projects

Architect: TompkinsMDA Architects

Engineer: Geoff Ninnes
Fong & Partners

Contractor: Sitzler Bros

Pool Builder: Crystal Pools

PWT Contractor: Trisley
Hydraulic Services

Tiling: Ceramic Solutions

Numerous other parties contributed to the successful completion of this project, but this condensed list focuses primarily on the aquatics component and its delivery.

“flow three times” to be considered a local. After the sixth time, I stopped counting. In 2010, I think the number of times that the Todd River flowed got into double figures! Not that I would ever want to discourage anyone from working in the outback, but the flies in summer were in plague proportions, especially at sunrise. While we also experienced a plague of grasshoppers and a plague of stink bugs, Alice Springs has a lot to offer. I was surprised that the land was frequently extremely green and fertile, not the “red centre” as so often advertised in travel brochures.

Suffice to say, hands-on physical work in Australia’s centre is not for the faint hearted or the uncommitted. Be that as it may, the job satisfaction that comes from contributing to such vital and relevant infrastructure is something that I will retain for a long time to come.

In terms of specific project challenges (and lessons learnt), timely procurement and good planning is the key. I can vividly recall missing three tonnes of reinforcing steel and having no option but to re-order a replacement. Some three months later, when scouring a local transport depot for another delivery, I found my reinforcing steel!

While Crystal Pools has a general policy of using local trades wherever possible, the reality is that many specialist “pool” trades were required on a fly in/fly out basis. With

POOL & PLANT – TECHNICAL DETAILS

Details/Pool	25m Pool	Combined Lap/LTS/Leisure
Surface Area (m2)	510 (25m x 20.4m)	520
Average Depth (m)	1.4	0.75
Volume (m3)	734	390
Plant Capacity (m3/hr)	320 (89 l/sec)	320 (89 l/sec)
Turn Over (hrs)	← 2.5	← 1.25
Filter Type	Regenerative Precoat Pressure Filters	
Filter Area (m2)	92	92
No. Filters/area (m2)	2 x Atlas PCT460	2 x Atlas PCT460
Filter Rate (m3/hr/m2)	← 3.5	
BW Rate (m3/hr/m2)	5	
Wash Water/Filter (m3)	7.5	
Residual Disinfection	Elemental Gas Chlorine	
pH Correction	Soda Ash	
Advanced Oxidation	Prominent Medium Pressure UV	



The centre includes spray jets, spa and river ride

only one boom pump in town, it was essential that it was booked well in advance and carefully co-ordinated as part of the overall build-program. Aided by the strong pool-building experience at our head office, the works were very carefully planned and tightly scheduled.

From a pool building perspective, the construction of the initial blinding layer presented the earliest big challenge. In hindsight, all of the preparatory and detailed work that went into this initial construction phase was well worth it. A dimensionally accurate and true blinding layer provided a sound platform, which allowed all subsequent works to proceed smoothly.

Although “cost management” was not my direct concern, Crystal Pools won this contract on the basis of a fiercely contested tender process. In recognition of this commercial reality, the basic mission adopted for all site works was to proceed smartly on the basis of doing it right, first time round. It’s well known in the construction industry that “re-work” of any type is always expensive. In total, 152 detailed check lists formed the basis of our quality control.

While Crystal Pool’s management may work in the air-conditioned comfort of our Thornleigh offices, their innate ability to appreciate and to accurately cost the specified scope of works (with all its potential challenges) proved rather daunting. I imagine that this skill and expertise only comes from having had extensive front line experience. Our largest subcontract agreement for this project was with Trisley Hydraulic Services, who supplied and installed pool water treat-

ment (PWT) plant and associated works. Crystal and Trisley have worked together on numerous projects over many years and have developed a sound understanding of the construction sequence and the importance of tight planning.

The specified PWT plant for the project is based on the use of Atlas regenerative pre-coat pressure filters. This product was specified by GNFP on the basis of its reported solid (11-year) history and its proven ability to provide exceptional water clarity and minimal washwater consumption.

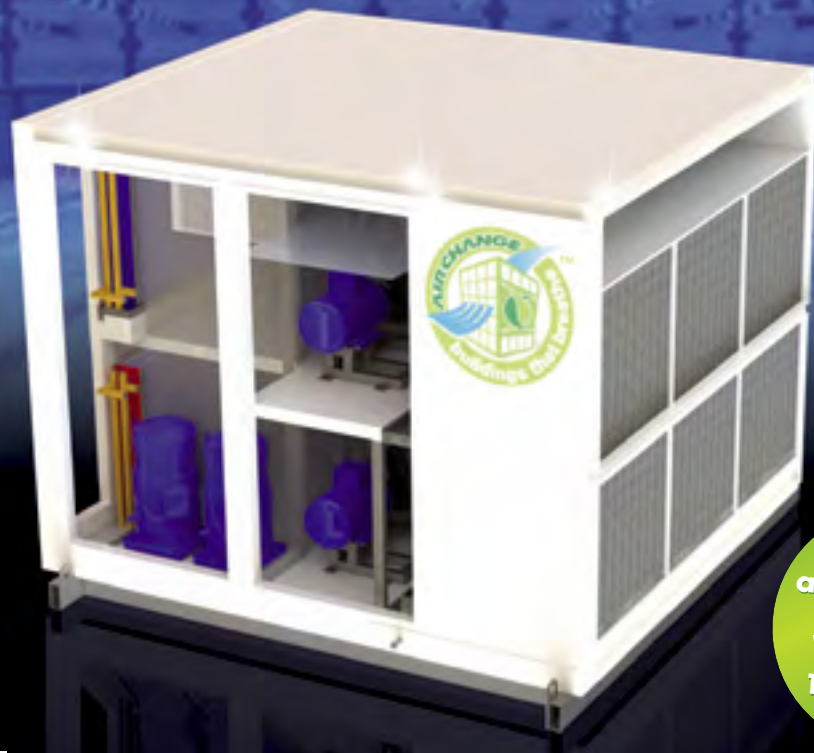
Being an Australian-made product, constructed from Gr316L stainless steel, these filters will provide long term performance and favourable life cycle costs.

I feel that the Alice Springs Town Council (and all other stakeholders/investors) made a very sound and wise choice in engaging totally independent and professional consultants. Not only did this engender all the benefits that are associated with “open compulsory-competitive tendering”, the consulting team’s detailing provided great certainty and immeasurable benefits. 🙌



The plant uses Atlas regenerative pre-coat pressure filters

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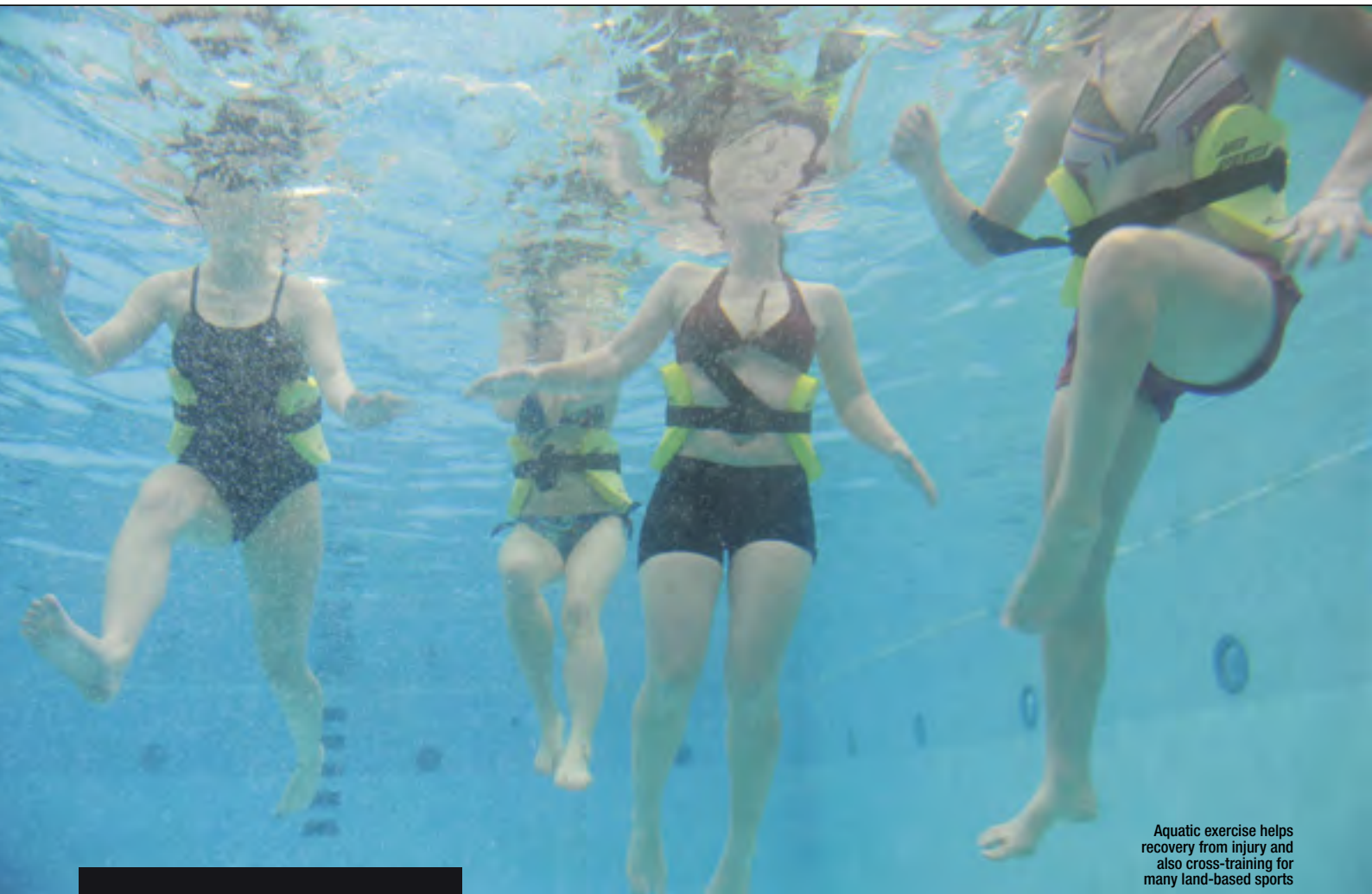
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Aquatic exercise helps recovery from injury and also cross-training for many land-based sports

Dr Bruce Becker, the most recent recipient of the John Williams Award from the International Swimming Hall of Fame, is carrying out ground-breaking research into the physiological benefits of aquatic therapy. Here, Alan Lewis updates what's happening with this leading researcher.

New research into hydrotherapy's health benefits

You only have to sink into a nice hot bath to sense the calming influence immersion has on your body, mind and general well being. No wonder the Romans were drawn to places where they could build hot baths. [Even if that was second century Jerusalem – see page 18 for more – ed]

It was these obvious benefits that drew the attention of Dr Bruce Becker MD to search for an explanation into exactly what the hot water is doing to your body. From there, he was able to analyse the source of the relaxation and dispersal of tension.

Becker is the sort of person who inspires passion in people to do good things so that they will feel better about themselves and

the world at large. That is perhaps why he has been awarded so many honours and enjoys the full support of the NSPF (National Swimming Pool Foundation) in the USA. Since 2008, when he founded the National Aquatics and Sports Medicine Institute at the Washington State University, he has received three research grants from the NSPF.

Most recently (last night at the time of writing) he was presented with a Paragon Award by the International Swimming Hall of Fame, receiving the John Williams International Adapted Aquatics Award.

Here are some of the projects he and his team are currently working on.



Aquatics and asthma

Exercise has been shown to have extensive health benefits both in normally functioning adults as well as adults with asthma.

Asthmatic individuals have previously been noted to have suboptimal cardio-respiratory function and other metabolic risk factors that are improved by endurance exercise training. A program of regular aquatic exercise may have unique benefits in the asthmatic population because of the known aerobic capacity development typical of such programs, combined with the unique value of immersion-produced improvements in respiratory endurance and cardiac output.

In addition, there may be clinically important gains in function as well as an increase in exercise-produced anti-inflammatory proteins.

The goal of Becker's current study is to examine the impact of a 12-week exercise program on psychological and physiological factors related to coronary heart disease and type II diabetes in an asthmatic population.

He will also be examining differences between land-based and water-based exercise adaptations, hypothesising that a semester-long weekly exercise regimen in an

asthmatic population will result in statistically significant improvement in cardio-respiratory function, asthma symptoms, sleep quality and psychological parameters.

Aquatics and arthritis

While the symptomatic effects of warm water immersion on arthritis are well known and documented, there is very little information on the physiologic processes that underlie these subjective responses. As a consequence, optimal clinical guidance cannot be knowledgeably extended to individuals regarding ideal immersion temperatures, immersion doses (times in water), or immersion frequency to achieve therapeutic effectiveness.

The autonomic nervous system is a likely neuro-modulatory mechanism initiating these physiologic processes, and has been implicated in the release or suppression of inflammatory cytokines, as well as in many cardio-regulatory and central nervous system events.

This research potentially extends that knowledge into arthritis-specific mechanisms. If they are able to find

physiologically relevant changes, this potentially adds a very safe and non-pharmacologic means of assisting in arthritis management.

It also may lead them forward into further research defining ideal water temperatures and immersion timeframes specific to disease acuity phases. Since warm water immersion is readily available to virtually the entire population, is very safe and subjectively enjoyable, a better understanding of the mechanisms involved would be of very real public health value.

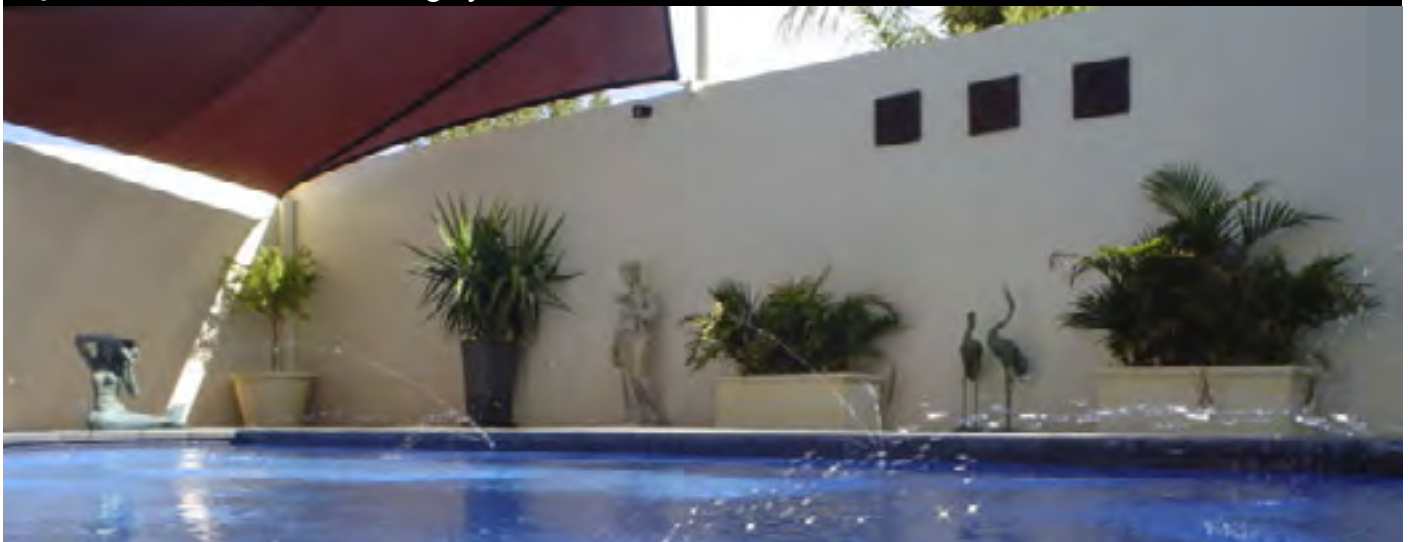
Aquatics and athletics

Collaboration with Washington State University Athletics was a major goal in creation of the Institute. Aquatic exercise has emerged not only as a means of facilitating recovery from injury, but also as a very useful cross-training adjunct for many land-based sports.

They work with basketball, cross-country, track and other sports to create athletic performance enhancement through natural and safe training adaptations using aquatic techniques. Their goal is to assist athletes

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in achieving injury-free sports performance that gains national recognition, while aiding the institute in developing state-of-the-art training protocols.

Warm water immersion

Numerous studies have examined the effects of water immersion temperatures on the cardiovascular system, but few have examined the effects of immersion temperature on factors relating to autonomic nervous system regulation (ANS).

Their research thus far has assessed aquatic immersion temperatures upon the cardiovascular system, peripheral circulation and core temperatures in a young college-aged group and a middle-aged group.

They have found a number of important physiologic changes within the ANS that occur during immersion, with a striking decrease in sympathetic nervous system function during warm water immersion. Interestingly, these changes are almost identical between age groups, with the older age group at higher baseline measurements. These changes may well have beneficial public health implications for water use.

Recovery of wounded US soldiers

Dr Becker is also helping design a program to speed the recovery of wounded US soldiers.

He has shared some of the institute's research findings with US Army doctors and therapists at Fort Lewis, Washington, and helped launch the Army's Aquatic Rehabilitation Program.

"The Department of Defense anticipates that this program could

Adjustable floor pool makes hydrotherapy easier

THIS picture shows the HydroWorx 2000 at the Kruger Health and Wellness Centre in Harden Shire, New South Wales. This pool has a moveable floor and adjustable water depth to vastly improve the types of aquatic based physio work that can be performed. Later in the year, Harden Shire will begin making these pools available to interested parties around the country.



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Sheer nirvana

THE Nirvana Spa in Berkshire, UK, features the Celestial Floatation Pool, the UK's largest hydrotherapy pool which actually contains salt imported from the Dead Sea, designed to match the specific gravity of the Dead Sea. The high salt concentration makes the water very buoyant and floating in the pool is perfect for spinal alignment. Bathers in the warm (35 °C), mineral-rich waters are removed from most external stimuli and a gentle current gives the sensation of floating in space. This provides both mental and physical benefits and many sports men and women, including international rugby players, skiers and rowers, use the pool to enhance their performance and reduce their injury time.

There are currently nine pools at Nirvana, each filled with pure spring water drawn from 700 feet beneath the ground. All pools, including the Celestial Floatation Pool, are treated with Hanovia UV systems.



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Deep water aquatic vessels with treadmills

ONE of the main issues preventing the introduction of hydrotherapy for many physio practices, hospitals and fitness facilities is lack of room, infrastructure and the uncertainty around ongoing upkeep of a pool.

However, newly released Physio Pools can be erected and operating within days to help the injured recover using buoyancy, resistance and warm water.

The Physio Pools range of compact, above-ground pools is now being produced in Australia for local and overseas clients targeting the rehab and fitness markets.

They range from one-person vessels with a variable speed treadmill through to four-person vessels with four individually controlled variable speed treadmills.

Physio Pools can be equipped with resistance jets/swim-jets and instant water level adjustment – a feature that enables the bather to adjust the water level to suit the activity at anytime during exercise, adjust water level up & down at the touch of a button. For more information go to www.hydroco.com.



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extend to as many as 10,000 soldiers," Becker says.

"It has two phases. In the first, soldiers are helped to recover from the acute stage of their injuries. The second, longer phase prepares them to return to active duty or civilian life."

Becker became involved through his longtime colleague Mary Wykle, an aquatic therapist who convinced the Army to start the program. Wykle is married to a retired general and has worked with wounded soldiers at Walter Reed Army Hospital in Washington DC.

"Bruce has been supportive since the beginning" Wykle says. "I came to him for advice on testing the cardiovascular fitness of soldiers in the water, and he came up with the 100 water-step test that is now part of the clinical outcomes we are collecting. He is the most recognised researcher and expert in aquatic therapy, and he's important in adding credibility to the program."

In addition to Fort Lewis, other pilot sites for the Army's program are Fort Eustis and Fort Belvoir, both in Virginia. While this program isn't formally a research project, data will be gathered on the participants' progress and sorted by location, gender, age, rank/grade and primary injury. Their progress will also be compared to soldiers in traditional rehabilitation programs. Becker foresees future WSU research will stem from the Army's experiences.

Wykle says the calming effects of water therapy may also benefit soldiers with post-traumatic stress disorder and traumatic brain injury. 📍



"The Department of Defense anticipates that this program could extend to as many as 10,000 soldiers."

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SEEMLESS RELAXATION

THESE people are relaxing so much they seem to be floating above the Tamaki Strait, overlooking Waiheke Island. In fact, it's an optical illusion created by the wet edge pool design – but that doesn't stop it from being incredibly relaxing.

They're taking it easy on Marine Bean Bags, originally designed by Coast when the company owners were watching the America's Cup yacht races in Auckland from several uncomfortable spectator boats.

While still popular on yachts, the Marine Bean has since found its real home ashore in homes, hotels and resorts in New Zealand and around the world. If it can survive on the ocean, it can survive on a pool deck.

Every Coast product is hand-made in New Zealand using the best marine grade materials including fade-resistant Sunbrella fabrics.

For more information visit www.coastnewzealand.com, email info@coastnewzealand.com or call +64 9 354 4552.



Aquabocci swimming pool drain system

The Aquabocci swimming pool drain system is available in 2800mm lengths which are easily connected via a watertight sleeve – ideal for areas where long runs of more than 10 metres are required.

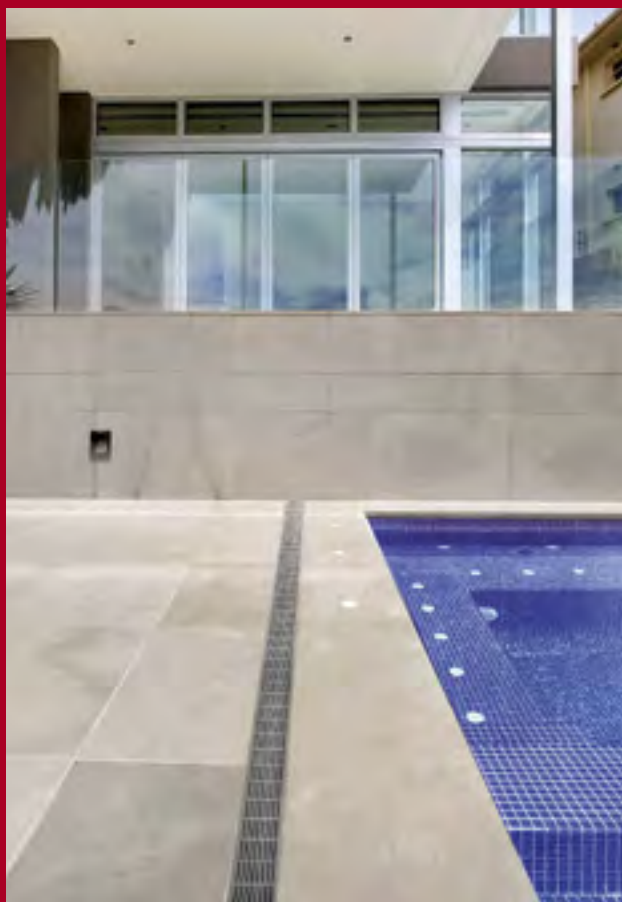
The pre-made corner pieces are ideal for swimming pool areas and the spigot outlet can be located anywhere along the drain base allowing it to be connected to old or new drainage pipes.

At only 44mm deep, the A40 drain can be installed on top of the concrete slab with natural stone or ceramic tiles, this enables the lid of the drain to lie flush with the tile top or bullnosed pool coping for a smooth finish. Another great feature which is included is the polyformer foam insert which is designed to keep the drain base clean during tiling and construction.

The child-proof drain top is safely secured to ensure it cannot trap small fingers or high heels, and as the drains are made from a marine-grade, fully anodized alloy they don't "tea stain" or etch like stainless steel.

The WunderGrip non-slip lid achieves the R13 slip-rating from the CSIRO.

For more information go to <http://aquabocci.com> or email anthony@aquabocci.com.



New from Zoggs

Predator Flex goggles

FITNESS and recreational swimmers can both improve their performance with the latest innovations from Zoggs. Zoggs R&D has come up with two new concepts: Four Flexpoint Technology Goggles and the Stroke Positive Drive Training Fins.

The new Predator Flex goggle, designed for both swimming pools and open-water swimming, uses Four Flexpoint Technology, providing swimmers with a more contoured fit while allowing the goggles to bend in the nose-bridge area and sides of the frame, ensuring maximum seal and comfort for a secure and enhanced fit.

It also has Fogbuster impregnated anti-fog lenses, a quick adjust strap system which can be easily adjusted whilst swimming; curved lens technology providing 180 degrees of undistorted peripheral vision; mirrored lenses to suit all light conditions and deliver perfect clarity; and a silicone strap for superior comfort.

Four-Stroke Positive Drive Fins

ZOGGS' new Four-Stroke Positive Drive Fins represents a move away from the traditional fin shape to one that allows far more versatility in stroke and kick capability.

The outstanding feature of this new fin is that swimmers are able to use it for all strokes – including breaststroke – allowing a wider variety of strokes in the same training schedule.

Key benefits of the fins include:

- Offset foot pocket that promotes natural supination (as opposed to pronation) in the kick, turning the kicking motion into positive drive;
- Ellipsoidal-shaped blade that provides ideal thrust in all of the main four kick cycles;
- Hoop rail foot pocket and high warp blade are combined, promoting optimum foot position, foot speed and flexibility;
- Ergonomic foot pocket designed to provide exceptional foot comfort;
- Closed-toe feature gives complete front of foot stability, providing greater energy transfer in the kick.

The new Positive Drive Fins look distinctive, come complete with carry bag in a blue and silver colour and are available in size brackets ranging from 2-3 through to 13-14.

For more information go to www.zoggs.com





NEW SOLAR POWERED POOL ROLLER

SUNBATHER'S latest pool roller, the SR-1, is not only attractive, it's solar powered.

The SR-1's motor-drive will open itself while you prepare for your swim and, at the flick of the switch, close automatically when you're finished.

On the pool, the SR-1's slats make a contemporary, architectural statement. The tubular anodised aluminium pillars look sleek and the adjustable state-of-the-art solar panel adds a high-tech touch to complete an impressive package.

Slat covers offer the best in water conservation and heat retention and are renowned for being the best looking covers available. SR-1 adds to those benefits by being the most affordable automatic slat cover in Australia.

Other benefits are that the SR-1's running costs are extremely low (zero in summer; or even all year round if there is sufficient winter sun); installation is a breeze with no wiring required; the powerful battery lasts during long periods without sunshine; over winter, you can top up the battery with a smart charger.

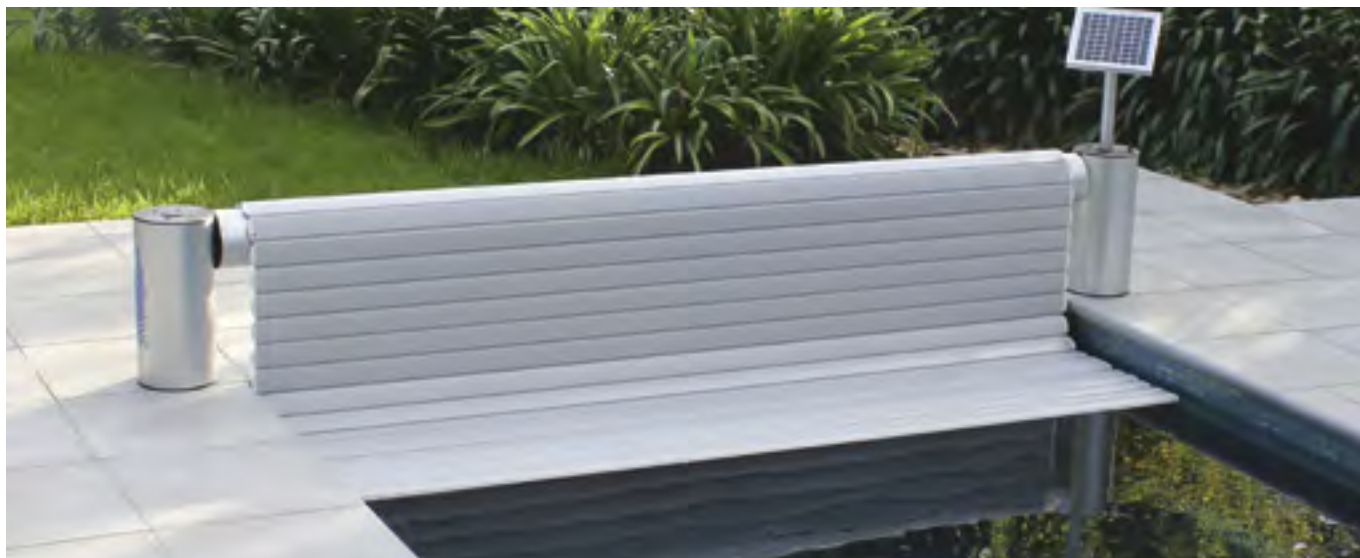
Additionally, the Australian made cover has built in electronic smarts to prevent overcharge or cut-outs, helping ensure a long battery life.

The SR-1 can be retrofitted to existing pools and is designed to suit most domestic, geometric pools. Larger sizes are available on request.

The solar panel can be located elsewhere on a roof or in the garden for indoor or shaded pools, or can be situated on one of the pillars.

Slats come in grey, cream, white or beige. Battery charger is supplied.

For more information go to www.sunbather.com.au or call 1800 228 437.





Unique pellet-burning barbie

BOB Grillson is a German-made barbecue based on a new, patented wood pellet burner. It reliably delivers excellent barbecuing results with the typical barbecue flavour of burning wood. It is almost self-cleaning and has a high degree of convenience and mobility.

Safety & health is paramount, and the unit is stable, the wood pellets are a safe fuel (and a unique concept) which helps reduce unhealthy grease fires even at very high temperatures.

The Bob Grillson has won a bronze medal at the International BBQ Awards.

The Bob Grillson has an extremely broad temperature spectrum from 80° up to 480°C, and due to the unique combination of radiant heat and convection, it reaches intensive heat like glowing coals and still gives a uniform barbecuing result.

They are currently seeking representation in Australia.

For more information got to www.grillson.com/en or email info@grillson.com.



Waterco launches range of compliant suction covers

IN line with the introduction of a new Australian Standard for pool and spa suction point covers, Waterco has launched a range of fittings which have been tested and comply with the new Standard AS1926.3 – Water recirculation and filtration systems.

The new standard will apply to swimming pools and spas built from May 1, 2011, as well as the replacement of existing suctions.

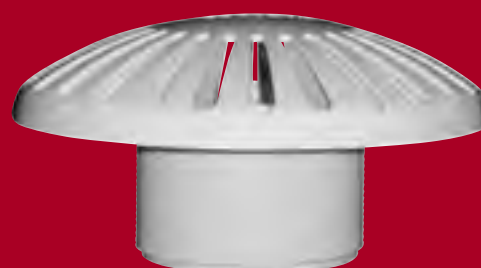
The Waterco covers have been independently inspected and tested by Queensland Testing Laboratory, a NATA accredited laboratory.

“Waterco has a range of suction fittings that have been independently tested and comply with the Standard,” says Bryan Goh, Waterco’s group marketing director. “It’s vital for our fittings to comply so we can ensure that our suctions meet the very latest safety requirements – and also to guarantee supply of certified suctions to our customers.”

The Standard had remained untouched since 2003, and the major change followed a series of tragic entrapment deaths.

Spiros Dassakis, CEO of the Swimming Pool & Spa Association of NSW was instrumental in driving changes to the Standard.

“In the past few years there have been significant technological advances and the development of alternatives, so the newly amended standard now allows for safer suction point covers to be used,” he says. “Builders, retailers and technicians should check with their supplier to ensure suction covers comply with the new standard.”





KLAFS goes green

KLAFS has released a Green Sauna package, which can be integrated into all traditional KLAFS sauna models. It not only gives those in search of the wellness experience optimum relaxation for the body but also reduces environmental impact – and the impact on consumers' wallets.

Consumers only have to touch the glass touchpad and the Green Sauna functions are activated: the same heat for significantly less energy input is made possible with an electrical flap which, together with the double-walled Eco Plus thermal ceiling, keeps the heat in the cabin for a much longer period. All the energy-consuming devices such as the sauna light and also the fittings such as sound equipment, coloured light or light features operate only when the cabin is occupied. This reduces energy consumption by more than 40 per cent.

For more information go to www.klafs.com.

NEW FROM POOL SYSTEMS

POOL TUNES

A revolutionary new approach to in-pool music. Simply plug the transmitter into an iPod or digital music player and play tunes wirelessly through the waterproof floating Pool Tunes speaker. Featuring volume control, the speaker will broadcast tunes up to 30 metres. Pool Tunes works great as a poolside speaker too and comes with an in-built blue LED pool light for night-time operation.



UNDERWATER LIGHT SHOW & FOUNTAIN

THIS amazing water feature floats, spins and sprays colour both above and below the water. Powered by 4xD batteries, the fountain sprays illuminated streams of water into the air while the colour changing light show effect reflects colours down into the water. Use the remote control (larger model only) to select one of the five different fountain shows and six different light shows. As no installation is required, it's the perfect pool party accessory.



MAGNETIC REMOTE UTILITY LIGHT

THIS waterproof, battery operated high output LED light is a problem solver. It requires no wires or installation, while adding lighting around the pool, spa, home or shed and is also ideal for boating and camping. The waterproof light's magnetic base attaches easily to any metal surface as well as the option to float on the surface of the pool. The light has two settings: bright and dim; which can be changed with the remote control. Packaged in a shelf-ready display of six units, this is a great item for retailers this coming season.

Contact Pool Systems Call Centre on toll free 1300 366 020 for more information.



IQ PHOSPHATE TESTING STATION

PHOSPHATE testing is an essential tool in the promotion and sale of phosphate removers. International Quadratics and Hach have together developed a Phosphate Testing Station which is accurate, professional looking and economical to use. The kit consists of a test tube rack, colour scale, test tubes and laboratory grade powder reagents. Replacement reagents are available in packs of 100.

A portable version of this test method is also available for mobile service technicians.

For more information contact International Quadratics on (02) 9774 5550.



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Waterplay releases eight new ground sprays

WATERPLAY Solutions has just added eight new ground sprays to their product line.

Each of the new products has a distinct look and most can be interchanged with other Waterplay ground sprays to add new life to older play pads. For toddlers, the Buttercup sprays three thick, soft streams to roughly two foot high; the Tower Spray, Fountain Mountain, and Confetti Spray all have tall, vivacious trajectories. For sprays that reach wide instead of high, Charlotte's Web which streams outward like a spider's web, and Starlet Spray which looks like a star from above and appears to be woven strands of water from the side. Distinctly unique is the Luminary Spray which lights up the water stream in blue, green, red and white – as either a steady colour or in a rotating fashion.

For more information go to www.waterplay.com or email lisa.neilson@waterplay.com.



NEW PHOSPHATE TEST KIT

BIOGUARD is about to launch a new Phosphate Test Kit to support the recent launch of BioGuard Phos Kill. The easy-to-use kit has been designed to determine if and how much Phos Kill is needed. It works by adding reagents to the water sample and matching it to the colour chart provided to establish a "parts per million" (PPM) measurement

For more information call toll free 1800 635 743.



NEW HYBRID PUMP

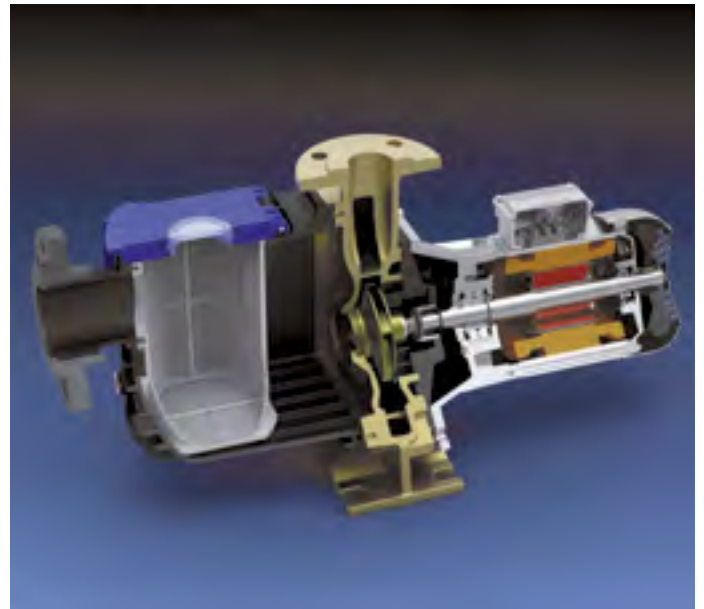
THE demand for efficient, intelligent processes in the field of technical applications is constantly increasing, especially when it comes to pump technology. With the WATERblue-H self-priming pool water circulation pump, Herborner Pumpenfabrik has now developed a product innovation designed to combine both of these requirements in one hybrid pump.

Efficient, long-lasting, high-performance, low-maintenance pumps are universally in great demand for use residential and commercial pools.

With its hybrid design, the pump is manufactured using a special combination of materials. Bronze, high-strength glass-fibre-reinforced polypropylene and polyamide are all used in the sophisticated construction. Its special design also enables it to withstand pressure of up to 3 bars. Not only the strength, but also the weight of the compactly designed pump has now been optimised.

Furthermore, WATERblue-H has been constructed to make it easy to install and maintain. The manufacturer has extended the service life of WATERblue-H by fitting it with generously dimensioned shafts and bearings.

For more information go to www.herborner-pumpen.de or email info@herborner-pumpen.de.



NEW FROM BIOGUARD

BIOGUARD Liquid Stabiliser has been developed to preserve residual chlorine by stabilising and protecting it from being broken down by UV rays. By reducing chlorine use, it in turn reduces maintenance costs. Being a liquid, it acts faster than powder or granular stabilisers because it dissolves instantly. The new Liquid Stabiliser will be launched in BioGuard's new label design and comes in a 2.5-litre jerry can.



ONE SHOT FLOC

BIOGUARD One Shot Floc is a single dose formulation, clearing cloudy water fast by flocculating suspending particles. It can be poured into a skimmer or across the surface water and will not affect pH levels in the pool. One Shot Floc comes in a 250mL bottle.



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For more information call +61 2 9262 5202 or email eli@greenbo.com.



AQUACHEK ONE MINUTE PHOSPHATE TEST

AQUACHEK has released a new One Minute Phosphate Test. Like other AquaChek products, it is a fast, easy and accurate tool for pool and spa professionals and owners to monitor the presence of phosphate levels. Controlling phosphate levels helps to prevent algae outbreaks.

It takes just three easy steps to perform the One Minute Phosphate test: add powder pillow content to water sample, shake gently to mix, and compare to colour chart. The AquaChek One Minute Phosphate Test is packaged with 20 phosphate powder pillow reagents and a testing vial in a convenient bottle. Directions are written in English and Spanish.

The complete line of AquaChek Pool & Spa test strips and award-winning merchandising aids are available by contacting your AquaChek distributor in Australia or by visiting www.AquaChek.com.



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