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Wednesday 25th July & Thursday 26th July 2012

SPLASH! Pool & Spa Trade Show 2012 will be the largest trade show for the pool & spa industry in Australasia. SPLASH! is the must – attend event for manufacturers, retailers, pool builders, contractors, architects, landscapers, engineers and service technicians. SPLASH! Pool & Spa Trade Show is back on the 25-26 July at Jupiter's on the Gold Coast. With more than 100 exhibitors, a welcome reception, SPLASH! Environmental Awards Dinner, Andrew Simons Memorial Golf Day and over 40 hours of education there is plenty to see and do. Education covers Water Chemistry, Pool Heating and Energy Management, Business Marketing, Pool Efficiency, Managing Recreational Water Illness and Heat Recovery Systems to list a few.



SPLASH! Workshops

For all education visit www.splashexpo.com.au

Monday, 23 July 2012



7:30am-5:00pm National Swimming Pool Foundation (NSPF®) Instructor School Alex Antoniou, Director of Educational Programs, National Swimming Pool Foundation® (NSPF®)

Become an instructor and be able to deliver training to help aquatic professionals reach the new Construction and Property Services Industry Skills Council (CPSISC) national competency based qualifications for Swimming Pool and Spa Technicians. The NSPF® Instructor class is designed to verify ability and mentor candidates to successfully conduct aquatic training courses offered by the NSPF®, including the Certified Pool/Spa Operator® (CPO®) Certification course designed for commercial pool operators. This intimate training course has no more than five students per instructor and helps prepare instructors to deliver aquatic educational products, including pool operator training and management training. The class focuses on teaching methodology and practice, visual aids construction and utilization, course administration, and NSPF® requirements. As an NSPF® Instructor you become an education leader for the pool and spa industry to ensure that minimum standards are being met for public health and safety at public pool facilities. Additionally, you become an advocate for the leading world-wide educational course.

Course Prerequisite: Completion of the online Pool Operator Primer course (included in the course fee). Materials are sent to instructor candidates one-month before course start date with instructions on how to prepare for the instructor training school.



8:00am-5:00pm Certified Pool/Spa Operator (CPO®) Certification Alex Antoniou, Director of Educational Programs, National Swimming Pool Foundation® (NSPF®)

The CPO® certification program will train you how to operate and service commercial swimming pools and spas. The two-day class that covers 14-16 hours of information from the NSPF®

Pool & Spa Operator™ Handbook and local standards and codes taught by a certified NSPF® Instructor. Topics covered include, pool calculations, disinfection, water balance, pool and spa water problems, water circulation and filtration, and much more.

This dynamic setting offers direct interaction with an instructor and fellow students. You must achieve a minimum score of 75% on the final open book exam to earn CPO® certification. The certification is valid for 5 years

Tuesday, 24 July 2012



08:30am-4:30pm Hydraulic Workshop

Cal Stanley, Neptune Pools and Hugh Smith, Pentair

After you have handed over that beautiful looking pool you have just competed the most worrying thing you leave for your clients to look after is the water. You can do little about the ongoing efforts and costs of keeping the water in a good condition, but with some training and proper design you can ensure that you don't add to their problems with a poorly

designed and sized plumbing, pump and filtration system. Hydraulics for the pool industry is the application of science to the transfer of water from the pool, through a pump & filter, etc and back to the pool again. In the relatively new National Training program there are now courses in the construction of a swimming pool for pool builders but they do not include one iota of training in hydraulics. For the first time in Australia Cal Stanley of Neptune Pools in WA and Hugh Smith of Pentair have designed an advanced training course in pool hydraulics to remedy this omission and give you both the training and the tools to take the mystery away from this part of a swimming pool. You will learn about flow, water velocity and head loss; about sizing your pipes and pumps for the most efficient transfer of water. For the first time ever you will receive easy to use tools to accomplish this in a minimum of time. You will receive a comprehensive manual for future reference. Your training can be applied to all pools, small and large, private and commercial. Essential items for your training course: scale rule, a calculator and a fully charged lap top computer.



ALFA Queensland State Conference

The 2012 ALFA Queensland State Conference will be held in conjunction with the Gold Coast SPLASH!

Pool & Spa Trade Show. This conference is all about delivering important industry information and coupled with SPLASH! Pool & Spa Trade Show, it will be the highlight of the year. For more information or to register go to www.splashexpo.com.au

SPLASH! Week

Monday 23 July 2012

- 7:30am-5:00pm National Swimming Pool Foundation (NSPF®) Instructor School
- 8:00am-5:00pm Certified Pool/Spa Operator (CPO®) Certification

Tuesday 24 July 2012

- 7:30am-5:00pm National Swimming Pool Foundation (NSPF®) Instructor School (Day 2)
- 8:00am-5:00pm Certified Pool/Spa Operator (CPO®) Certification (Day 2)
- 8.30am-4.30pm Hydraulics Workshop
- 10.00am-5.00pm ALFA Queensland State Conference

Wednesday 25 July 2012

- 7.30am-4.30pm Education program
- 10.00am-5.00pm Trade Show Open
- 5.00pm-6.30pm Welcome reception - FREE for all to attend

Thursday 26 July 2012

- 7.30am Site Visit - Paradise Resort
- 8.30am-10.00am PASCAA Meeting
- 10.30am-2.30pm Education program
- 10.00am-4.00pm Trade Show Open
- 7.30pm-late SPLASH! Environmental Awards Dinner

Friday 27 July 2012

- 8.00am-2.00pm SPLASH! Andrew Simons Golf Day

Attend the expo or seminars to earn CPD points

SPLASH! 2010 Wins Best Show

SPLASH! 2010 achieved record exhibitor and attendance numbers and was recognised as an invaluable contribution to the pool and spa market. The Exhibition & Event Association of Australia (EEAA) awarded SPLASH! Pool & Spa Trade Show 2010 the award for Best Trade Show Under 10,000sqm as well as the Best Australian Show (trade or consumer). It was an overwhelming success for Interpoint and the pool and spa industry at large. We couldn't have done this without the support of sponsors, exhibitors, attendees and all the suppliers.



Looking for accommodation?

Special room rates are available at Jupiters Hotel & Casino. The venue has 594 superbly appointed guest rooms, including 29 suites and two penthouses. The rooms feature sweeping views across the Pacific to the east and rugged hinterland to the west.

Delegates who wish to utilise Jupiters rates for SPLASH! Pool and Spa Trade Show 2012 should contact reservations direct on 1800 074 344 and mention that they are attending "SPLASH! 2012" or download a booking form from www.splashexpo.com and fax/email back to the hotel.



Welcome Reception

Join SPLASH! at the Welcome Reception. Wednesday 25 July 2012 from 5pm at the Jupiters swimming pool – its free for delegates and exhibitors to attend. We look forward to seeing you there.

Site Visit: Paradise Resort Thursday 26th July



Join the team at Paradise Resort to see how they have created a water park and kids play area in Surfers Paradise.

We will be leaving Jupiters at 7.30am, enjoy breakfast poolside before a site inspection with Paradise Resorts Engineer, who will answer any questions you have about the venue.

Head back to SPLASH! by 10am for the second day of education, networking and visiting the exhibition. Spaces are limited and registrations are a MUST. \$40 + GST per person includes transfers and breakfast. This is perfect for hotel managers, engineers, councils responsible for play areas.



SPLASH! Andrew Simons Memorial Golf Day

Lakelands Golf Club, 27 July 2012



Join the Lo-Chlor and SPLASH! teams at the Lakelands Golf Course on Friday, 27th July 2012. A great way to relax after a big week. Designed by one of the greatest golf players of all time Jack Nicklaus, Lakelands is a 18 hole (par 72) international standard

championship golf course. Immaculately spruced, the Windsor Green couch fairways are neat and well groomed, while the hardy Bermuda-strain turf greens are firm and roll honestly. The Clubhouse, with expansive views of the golf course and the Gold Coast skyline, is where post golf celebrations including lunch and prize giving will take place. \$145.00 + GST per person. **Register at www.splashexpo.com.au**

SUBSCRIBE



SPLASH! is the leading trade magazine for – and dedicated voice of - the Australian pool and spa industry, and is distributed both nationally and internationally.

Published bi-monthly, the magazine provides detailed coverage of the latest industry news, case studies, projects and the broad range of issues affecting the residential and commercial pool and spa market.

Dedicated to delivering the most comprehensive editorial and technical content, *SPLASH!* is essential reading for anyone involved in, or associated with, Australia's "wet" industry.

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SPLASH!

Commercial

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.

Terrace spraypark at the Changi Mall featuring Empex Watertoys equipment

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Male veterans fall short but new blood adds spark

WHILE IAN THORPE AND GEOFF HEUGILL FAILED TO MAKE THE CUT FOR THE LONDON OLYMPICS, HOPES ARE RIDING HIGH ON A NEW CROP OF TALENT.

AFTER eight days of spectacular racing at the Olympic Trials in Adelaide, 44 athletes (21 men and 23 women) have been officially selected onto the Swimming Section of the 2012 Australian Olympic Team. The final night was capped off with Cate and Bronte Campbell going 1-2 in the 50m freestyle to be the first Australian swimming siblings to qualify in the same event at the Olympics and the first siblings since 1972.

Half the team will make their Olympic debut and Leisel Jones becomes the first Australian swimmer to compete in four Olympics.

Head Coach Leigh Nugent is impressed with the strength of his Team and the positive racing at the meet that doubled as the Olympic Trials.

"We've seen some great swimming this week and depth in many events. Our relay strength looks very good like it was in Beijing – if not better, and our sprinters have led the way in terms of world rankings," Nugent says.

"The racing for individual swims in London has raised the bar here at our trials and now the job is to do everything possible to best prepare for the Games in July."

With the Opening Ceremony just 127 days away, Australian Olympic Team Chef de Mission Nick Green was on hand to congratulate the athletes on their selection.

"The depth of young talent on show this week is really exciting for the Australian Olympic Team not only for London but also Rio 2016," Green said.

"To see 13 and 14-year-olds making finals and matching it with the best shows that the future of swimming is in really great shape."

At the Water Cube in 2008, the women produced all the gold. In 2012 the men are ready to win their share led by James "The Missile" Magnussen.

World Champion Magnussen has told his rivals to 'brace themselves' as he looks set to be the first Australian male to win the coveted 100m freestyle gold medal since Michael Wenden at the Mexico City Games in 1968.

Magnussen's warning came after setting two new personal best times this week – 47.10s in the 100m freestyle and 21.74s in the 50m freestyle.

The Australian men are the current World Champions in the 4x100m freestyle and with the times swum by James "The Rocket" Roberts (47.63), Matt Targett (48.32), Eamon Sullivan (48.53), Cameron McEvoy (48.58) and Tommaso D'Orsogna (48.64), taking back the Olympic title from the Americans is achievable.

Equally as dominant, Stephanie Rice overcame a string of injuries to win the 400m and 200m individual medley (IM)



Ian Thorpe was not used to life in the slow lane – he might still attempt to make the 2016 games

events in world-class times. Rice was the superstar at the Beijing Olympics with three gold medals (200m IM, 400m IM, 4x200m free) and was chosen as the Closing Ceremony Flagbearer. To have her back to her best at the trials is a huge boost for the entire Olympic Team.

The youngest member of the Swim Team for 2012 is 16-year-old freestyle sprinter Yolane Kukla and the eldest is Brenton Rickard at 28. The average age is 22.

The eldest female at 27 is Beijing gold medallist Libby Trickett. She provided the comeback story of the meet to be selected for the 4x100m relay team after finishing fifth in the 100m final. The strong freestyle contingent of Melanie Schlanger, Cate Campbell, Yolane Kukla, Brittany Elmslie, Alicia Coutts and Trickett could well improve on the 4x100m freestyle bronze from 2008.

2012 AUSTRALIAN OLYMPIC SWIM TEAM

Daniel Arnarnart (NSW), Jessica Ashwood (NSW), Angie Bainbridge (ACT), Bronte Barratt (QLD), Bronte Campbell (QLD), Cate Campbell (QLD), Alicia Coutts (ACT), Nick D'Arcy (QLD), Tommaso D'Orsogna (ACT), Brittany Elmslie (QLD), Blair Evans (WA), Sally Foster (ACT), Thomas Fraser-Holmes (QLD), Jayden Hadler (QLD), Samantha Hamill (QLD), Belinda Hocking (ACT), Leisel Jones (QLD), Yolane Kukla (QLD), Mitch Larkin (QLD), Matson Lawson (VIC), James Magnussen (NSW), Cameron McEvoy (QLD), Ned McKendry (QLD), David McKeon (NSW), Kenrick Monk (QLD), Ryan Napoleon (QLD), Meagen Nay (QLD), Jade Neilsen (QLD), Kylie Palmer (QLD), Leiston Pickett (QLD), Stephanie Rice (QLD), Brenton Rickard (QLD), James Roberts (QLD), Jessicah Schipper (QLD), Melanie Schlanger (QLD), Emily Seeböhm (QLD), Christian Sprenger (QLD), Hayden Stoeckel (SA), Eamon Sullivan (NSW), Matthew Targett (VIC), Daniel Tranter (NSW), Libby Trickett (QLD), Tessa Wallace (QLD), Chris Wright (QLD)

Country pool managers to meet at Katoomba

THE Country Pool Managers Association will hold their 2012 Conference from Wednesday May 16 to Friday May 18, 2012 at the Katoomba RSL Club, Lurline Street, Katoomba.

The cost per delegate is \$60 per person, and items on the agenda include international pool signage requirements, Practise Note 15, NSW Department of Health guidelines, dealing with stress, obtaining government grants and cal hypo feeders.

There will be a dinner on Thursday 17 May, 2012 at 7pm at the Katoomba RSL. For more information email kerryandmarylynch@aapt.net.au.

Aussies don't like drugs in sport

RESEARCH by two Australian universities has shown that Australians dislike the use of drugs in sport so much, that the majority believe it should be criminalised.

The national phone research project conducted by Griffith University surveyed 2500 adults regarding their opinions on doping and drugs in sport.

The result was that 54 per cent believed that police, not sporting bodies, should conduct drug-related investigations, and guilty offenders should face criminal charges. Nearly 80 per cent of respondents believed positive drug tests should be made public.

And while 99 per cent of respondents believe the athletes should accept responsibility; two-thirds of respondents believe the coaches, club and the governing body should also take some responsibility.



Cook + Phillip architect honoured

LAWRENCE Nield has been awarded the Australian Institute of Architects gold medal for his body of work which includes the Sydney's Cook and Phillip Park. Formerly a principal of Bligh Voller Nield, he has since resigned to concentrate on a new smaller practice.



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Vietnam has the best spa in Asia

LE Spa du Metropole in Hanoi has won top honours as Best Urban Spa of the Year at the AsiaSpa Awards. More than 300 people gathered in Hong Kong for AsiaSpa magazine's annual rankings of the region's most outstanding leaders in quality and innovation. With 400 square meters of private treatment areas furnished in Indochine-era décor, the spa at the 110-year-old Sofitel Legend Metropole Hanoi was the only nominee from Vietnam to pick up a trophy at the 7th AsiaSpa Awards ceremony.



Surfing safari UK-style

YOU could think of more likely locations for a surfing theme park than England but nonetheless, Bristol is the proposed location for the new surfing park concept, Wavegarden. Work on the £5m inland surfing facility could start as early as next year. The website (www.wavegarden.me.uk) shows trials of the technology which produces a clean wave in an artificial lake. Famous Australian and US surfers are seen riding the small but glassy wave, with Mick Fanning and others describing how enjoyable it is.

Masters to Geelong

THE Australian Masters Games has announced that the host city for the 2013 Games will be Geelong.

The Games are billed as Australia's largest sporting festival and will be held in October next year.



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This will be the fourteenth time the Australian Masters Games have been staged. Approximately 10,000 participants are expected to come together for a week-long sporting festival that celebrates fun, fitness and a lifelong commitment to personal health and wellbeing through an active lifestyle.

Project Manager Ian Fitzpatrick says he is very pleased to be able to partner with the state of Victoria.

“We are equally pleased to be able to work with the great volunteers and sporting community of Geelong who supported this event in the past,” he says. “The Australian Masters Games is not only about the sporting competition but equally about a unique festival atmosphere that is created over the event period. Selecting a location such as Geelong, that is such a desirable holiday destination with amazing sporting culture and infrastructure will only continue to enhance and improve the overall appeal of the Games to the participants.”

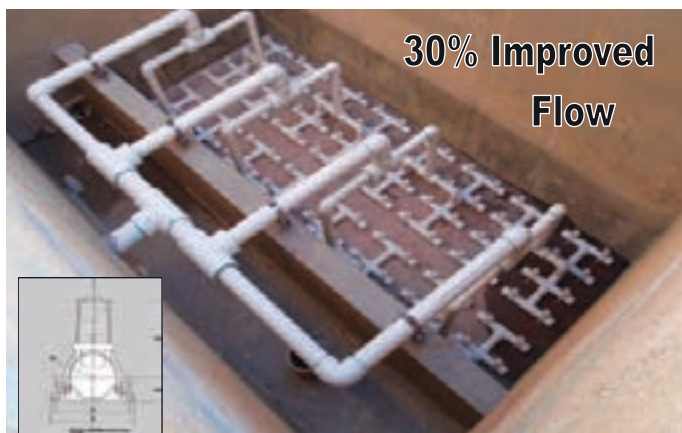
South Bank to expand with Olympic pool

PLANS are afoot for a dramatic expansion of Brisbane’s South Bank precinct including the construction of a new Olympic-sized swimming pool.

Other features of the proposed expansion along the south side of the Brisbane River are new commercial and residential buildings and even the possibility of a national Indigenous museum.

The new works would extend South Bank to a 5km long, 69ha site running from the Story Bridge to Hockings Street.

But don’t hold your breath. The project, billed as South Bank II, was announced by outgoing premier Anna Bligh, and is planned to be built over a period possibly encompassing two decades.



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Timing system makes the mark

A new timing system is making a splash at local swim meets. According to distributor International Quadratics, a growing number of swimming clubs are adopting the Colorado Time System (CTS).

Recently, Gold Coast based club and Centre of Excellence, Miami Swimming Club, used the CTS 6 starting system at their Miami Superchallenge. The club's past greats include Grant Hackett, Giaan Rooney, Michael Klim, Daniel Kowalski, Andrew Baildon and Ky Hurst. Their current crop includes the world ranked 800m swimmer (Katie Goldman), the current Junior world 800m Free Title Holder (Bonnie MacDonald) and several current Australian representatives including Tom Fraser-Holmes and Jade Neilsen.

This year's Miami Superchallenge attracted a large number of International competitors including China's Sun Yang, who broke Grant Hackett's 1500m freestyle record at the recent World Championships in Shanghai.

More than 450 competitors entered

in over 200 races, and the Club official, Keith Jenkins says the CTS System 6 handled the timekeeping and recording functions extremely well.

"The morning heats session finished about 20 minutes ahead of schedule," he says. "This was largely due to the CTS efficient handling of starts, events/heats and recording of times. One of the features of the System 6 that impressed was the capability to accept Starts without the operator having to reset the system after the finish of the previous race. This meant that the Starter did not have to wait for a signal from the CTS operator before starting the next event/heat, thereby giving the Starter greater control over the pace of the Meet".

David Lloyd, Managing Director of IQ says that following the success of the precision timing system he and his distributors are working with more than 500 swimming clubs Australia-wide, in the aim of providing immediate support and technical advice.

Sauna on the seas

THIS Klafs sauna is an outstanding example of a stylish curved timber sauna with a brilliant view. How relaxing must it be to watch the waves rock before you, while enjoying the therapeutic heat. This sauna is on an Aida cruise liner, which caters specifically for young, active and fun-loving German speakers, and sails to Europe, the Middle East, Canary Islands and the Caribbean.

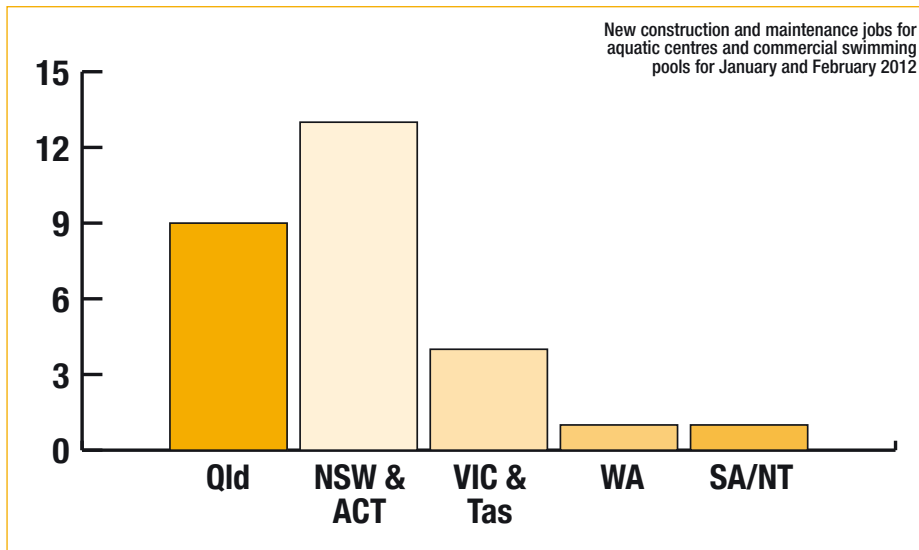


Latest commercial tenders

CORDELL Information has released data showing new tenders for public swimming pools and aquatic centres for January and February, 2012.

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 28 in total compared with 25 for the previous period. New South Wales (13) and Queensland (9) had the most tenders.



Tender of the month

**Department of Defence
Industry Briefing**

Deadline: April 23, 2012.

RFI to be released through AusTender
(www.tenders.gov.au)

The Department of Defence delivers Base Services throughout Australia to its properties and facilities in metropolitan, regional and remote locations. The Department will be releasing a Request for Information (RFI) seeking industry feedback, comments and suggestions on its intentions for the future provision of Base Service activities.

Base Services relevant to the pool and aquatics industries could include: the maintenance of plant and equipment; the operation and management of water treatment facilities; the delivery of services including pool supervision.

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

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Pool consultant Alan Lewis ventured to Seattle in the USA to report on the latest World Aquatic Health Conference.



World in discussion about the health of **POOL WATER**

Each year the World Aquatic Health Conference (WAHC) organised by the NSPF and partnered with the American Physical Therapy Association's Aquatic Physical Therapy Summit, seems to grow and expand its impact on the aquatic world.

The most recent meeting in October 2011, saw growth of 30 per cent in registrations compared with 2010. More importantly, that growth seems to bring together more issues, more meetings of innovators and leaders with good ideas, more opportunities to exchange experiences learned and yet more scientific and industrial research findings of importance. This conference was crowded with fascinating and captivating topics compacted into five main streams:

- Recreational Water Illness (RWI) Prevention (five presentations)
- Drowning and Injury prevention (10 presentations)

- Aquatic Health Benefits (nine presentations)
- New Industry Technology (nine presentations)
- Facility Management (nine presentations)

Alongside the conference proper, the organisers encouraged leading organisations such as USA Swimming; the YMCA; The American Red Cross; the Centres for Disease Control (CDC); the Aquatic Exercise Association; the American Physical Therapy Association, and the Regional Build-A-Pool Conference to synchronise eight roundtable discussions, seminars and similar major workshops and meetings.

Of these the CDC played an important part in moving the Model Aquatic Health Code (MAHC) forwards step by laborious step. At this point, giant strides have been made in the area of training Pool Operators. This work is on-going. Each year about 25,000

public pool operators and service professionals are satisfactorily trained and obtain CPO Certification by NSPF.

These courses are the main-stay in progress of the MAHC, which is gradually bringing this Code to fruition by collaborating with health authorities and similar organisations, across all states. Clearly with better trained and better paid pool operators, the standards of maintenance in the USA are rising to a level not known before. Yet, with 300,000 public pools in the USA, training remains critical to protecting the public and ensuring the improved growth of the aquatic industry.

Keynote presentation

Dr Yuval Baruch of the Israel Antiquities Authority made a fascinating contribution to the conference by taking the delegates back to 1000BC with illustrations of arte-



Dr Tom Lachocki (CEO of NSPF) opening the conference



Ben Lewis, Alan Lewis, Dr Yuval Baruch, Dr Tom Lachocki

facts and uncovered finds on the temple mount in Jerusalem. This was all associated with "The Joy of Water" – Jerusalem's Water World from an Archaeological point of view.

His scholarly examination of the archaeological finds there revealed surprising issues unrelated to the common impression that bathing facilities are not usually linked to "sanctity and spirituality". With the growth of the biblical Canaanite city which sprung up near the Gihon Spring, water soon became Jerusalem's primary concern. The lecture illustrated how water was used not only for religious and sanctity rituals, but also how it was utilised for sport, fun and leisure. The more things change, the more they stay the same.

Facing up to cryptosporidium

Michele Hlavsa, chief of the CDC's Healthy Swimming Program is having a major impact on the state of the nation with regard to RWIs. In the USA, the CDC has more than 2000 authorities assessing and recording compliance issues relating to illness prevention and the chemical safety of the water. The primary aim of the CDC is to ensure that aquatic facilities continue to maintain a high standard and continually improve the swimming experience. By far the greatest problem they face is the prevalence of Cryptosporidium outbreaks. On average, there are more than 25 outbreaks across the county each year – whereas Australia only faces an average of one documented outbreak every two years.

This makes Crypto the top priority in pool maintenance issues in the US. Because of this, the levels of disinfection and the attention to overall water maintenance

relate in the main to prevention and control of this scourge in public facilities. Nevertheless there has been a steady recorded increase over the past three decades (1978 – 2008) of outbreaks of gastroenteritis. This graph might be weighted by the fact that the inspections over that period were not as thorough and precise as they are today.

The CDC has shown that while 75 per cent of outbreaks of gastroenteritis in the last decade or so have been due to the chlorine-resistant Crypto, the other 25 per cent of RWIs is due to chlorine sensitive outbreaks of diseases such as E.Coli, Shigella, Salmonella and the like, due to poor management and insufficient disinfection.

Accordingly the CDC has stepped up its communication efforts to encourage better training of operators – an effort that is fully undertaken by NSPF. The violations in the main have been insufficient disinfection; lack of adequate pH control; circulation and filtration; insufficient or unaccredited operator training; lack of adequate testing and logging; and running a pool without a licence. Although we do not have similar records, due to the fact that Australia's CDC has had their budget decimated some years ago, it would be fair to say that even though we do not suffer the prevalence of Crypto outbreaks, Australian pools would expose similar defaults.

The illustration on this page shows the division of violations that are all too familiar in Australia with the exception perhaps of the pool licence which is not mandatory here. The bulk of the violations relate to lack of sufficient and satisfactory circulation – which is evident in all Australian pools built two or more decades ago.



Michele Hlavsa, RN MPH

“Prof Blatchley clearly showed in this presentation, that UV photolysis has no appreciable influence on the levels of chloroform (CHCl3) one way or the other.”

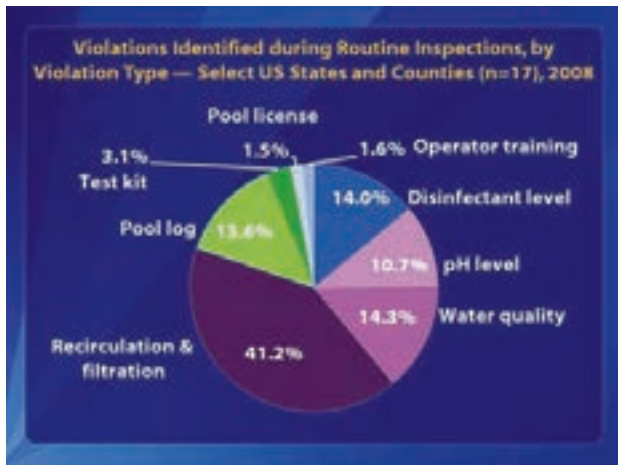


Illustration showing the most common health violations in US pools

“One very positive finding of this current research has been to show conclusively that UV does break down nitrosamines.”

Prof Ernest (Chip) Blatchley



Further studies of UV photolysis

Ernest (Chip) R. Blatchley III, Ph.D., P.E., BCEE improved our understanding of UV photolysis a quantum leap forward.

His presentation dispelled several myths researchers had been grappling with over the last seven-to-eight years. In particular Professor Blatchley showed quite clearly in Purdue, that manufacturers of UV disinfection systems have in the past based their development decisions on empiricism rather than pure science in most cases. Through research of the application of UV to disinfection over the past five years, he has been able to develop methodologies for assessing and validating the treatment of water and air chemistry in chlorinated, indoor pools.

This time he has cleared up one of the myths that has been drawing much attention since Cassan et al (2005 Montepellier) found that “When medium pressure UV lamps were kept on, total free and active chlorine levels were significantly increased, whereas combined chlorine levels were significantly decreased. The additional formation of chloroform and bromodichloromethane may be explained by the increase in active chlorine and by radicalizing mechanisms initiated by mechanisms initiated by UV radiation.”

This misperception influenced restrictions on the use of UV in France, Austria and considerable concern in many other European

countries. Prof Blatchley clearly showed in this presentation, that UV photolysis has no appreciable influence on the levels of chloroform (CHCl₃) one way or the other and that “UV and Free Chlorine work together to alter pool chemistry – but that chemistry is not clearly defined”.

At the same time we now have plenty of research to show that chloroform is readily created by the reaction between free chlorine and skin cells – in plain terms – bodies in the pool. Whether the cells are trapped in the sand filter; or lying on the floor of the pool; or still attached to the bodies of the bathers, their presence in the circulation of the pool water leads to an increase in the chloroform residual. Therefore, when Blatchley repeated the study Cassan conducted in Montepellier, he arrived at a similar outcome. One very positive finding of this current research has been to show conclusively that UV does break down nitrosamines. These are considered highly dangerous carcinogens and have been found in heated pools, spas and hot tubs. They have been of considerable concern over the past few years because they can also appear in poorly treated drinking water.

It is indeed gratifying that the NSPF continues to support Prof Blatchley’s quality research at Purdue University because it is vital that we know what works and what doesn’t when we are faced with such a plethora of disinfection by-products. I am now informed

that Dr Blatchley will be joined by three world leading experts to present the latest findings at the 2012 World Aquatic Health Conference in Norfolk Virginia, in October 2012.

Indoor pool air treatment

A much neglected and vital element of pool management is the removal of volatile trichloramine and trihalomethane gases in the indoor pool hall. There have been many misconceptions here too. For example, many systems push or draw the air in the hall upwards as though to join these gases together with the rising hotter air. In fact they are heavier than air and therefore need to be drawn out of the hall at a level close to or below the water level. The presentation by Donald Cyrus Baker and Randy Baxter – Air Intake Placement and Design and Fresh Air to Improve Air Quality – was a very important step in “clearing the air” of indoor pools.

Paddock Pool Equipment Co lead the way in solving many of the problems in removing these volatile unhealthy gases. They have also added enough research of their efforts to clearly show how to get good results. Chloroform levels in the pools where they have installed their ducting according to the best practice, are around the 0.10mg/l mark. This is a great achievement from which we must all learn.

Because these gases are heavier than the incumbent air, and transform from liquid to



Don Baker



gas at the surface of the pool, they should always be measured at or about the pool surface level. It should be remembered that they will gather in the lower areas of the pool hall when designing their extraction. The less this air is mixed with the other air in that space – the easier and more efficient its extraction will be.

Typically these gases develop from their liquid form, at the surface of the pool, as swimmers splash or play in the pool. They would normally remain on or about that level were it not for the air flow systems that Paddock design – known as “The Evacuator”.

The other area where water is “agitated” is as the pool water flows through the grating and into a wet edge gutter. In large aquatic centres where children enjoy play features, slides and other water features involving splashing and showering water, special attention must be given to the extraction of the chloramines gases formed at those points. Where there are many pools in the one indoor space, each needs to have its independent ventilation system appropriate to the features and activities in the individual pool. It is gratifying that the Model Aquatic Health Code (MAHC) has already codified these treatments so that they now become an essential part of indoor pool design. This code also specifies new upgraded guidelines for the air changes needed for each type of area in a pool hall.

For these systems to work it is important that the design of the air flow draws the contaminated air from as close to its source as possible in every case. The presenters also supported the prevention of the formation of DBPs at their source by advocating:

- Showering prior to entering the water
- Visiting the toilet before entering the water.

Enhancing filtration to maximize cryptosporidium removal

Dr James Amburgey is an Assistant Professor in the Department of Civil and Envi-

ronmental Engineering at the University of North Carolina at Charlotte where he teaches courses like Water Treatment Engineering and Environmental Chemistry.

This work has also been conducted over the past 12 years and its importance relates to the prevalence of Crypto outbreaks in the USA which is plaguing public pools in all states. For a number of years, Dr Amburgey’s research has also been funded by NSPF. Since Cryptosporidium in the USA is the single largest threat to US swimmers, the control or removal of Crypto oocysts from pool water is an imperative in that

Dr James Amburgey



country. The outbreaks usually peak in mid-summer and can last for months if suitable action is not taken.

While the average size of an oocyst is 5 micron, the flow path through a normal sand filter is 50 micron (0.05mm). An oocyst might collide with the wall (of sand) and could possibly stick to it, but otherwise it passes through the sand and back to the pool quite freely. Dr Amburgey successfully used Crypto "surrogates" – the same size, shape, and surface charge as Crypto – to avoid issues of health and safety in the research. While UV; ozone; or chlorine dioxide can be used to kill or inactivate Crypto – more often than not this entails closing the pool to patrons for a day or two or even more to achieve the necessary kill time, and return the pool to a swimmable state.

This exhaustive research studied the addition of cationic polymer titration; sand plus coagulants; sand plus perlite; sand plus DE and compared the cost effectiveness of each application.

The eventual recommendations include:

- Deeper sand beds
- Lower filtration rates
- Coagulant feed systems – Polyaluminium Chloride (PAC); long chained cationic polymers
- Hybrid systems: Perlite/sand
- Fine ceramic media and charge zeolites
- Higher backwash flow rates
- Air scouring for enhanced cleaning of media in deep beds

- The incorporation of viewing windows to enable observation of the backwash through the sand bed
- Over- or under-dosing of coagulants can be problematic and these need careful calibration.

From here, Dr Amburgey will be seeking to establish how best to use coagulants in all sand filters throughout the USA.

“Trichloramine and trihalomethane gases are heavier than air and therefore need to be drawn out of the hall at a level close to or below the water level.”

Note: Since Cryptosporidium is not nearly as prevalent in Australia, our public pools can be focused more urgently on removing chloramines and trihalomethanes which would require more attention to the rapid removal of skin cells from the pool and would lead to pools with less chlorine and hence less disinfectant by-products.


As can be seen, this article touches only a very few vital important aspects of the 45 presentations including Keynotes. Nevertheless, in future issues, it is hoped to deal in detail with new and important developments – particularly in the promotion of drowning and injury prevention; facility management; new industry technologies and especially health benefits which stretch into new ways of helping older

adults; those with disabilities; techniques for children to learn to swim; using pools to aid in rehabilitation of patients suffering various chronic pain conditions; aquatic exercises for those who cannot enjoy ground exercises; and many more aquatic activities which help maintain and improve the health of bathers of all ages.

These annual conferences are continually enriching the scope of activities which can help keep people healthy, fit and wise, so that they can continue to enjoy life, leisure and sport. Such events continue to contribute to those who would otherwise not have the opportunity to enjoy such benefits, which have been developed by inspiring people who continue to devote their lives to the enhancement of aquatic activity world-wide.

The next World Aquatic Conference will be held in Norfolk, Virginia, USA, on October 10-12, 2012. More than 45 presenters will speak on five symposia that include Facility Management, Recreational Illness Prevention, Disinfection By-Products, Drowning and Chronic Illness Prevention, and Aquatic Health Benefits.

As before, this conference promises to be highly informative and enriching for all those who are passionate about the Aquatic Industry and for whom it is central to their lives.

Thanks to the National Swimming Pool Foundation for making the photos and slides available for this article. 

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Mixing wet and dry leisure in Blacktown



The exterior includes clerestory style windows to let in the light without compromising on privacy

The renovated Emerton Leisure Centre incorporates a number of additions to the original 50m pool and includes a future plan for a waterpark.

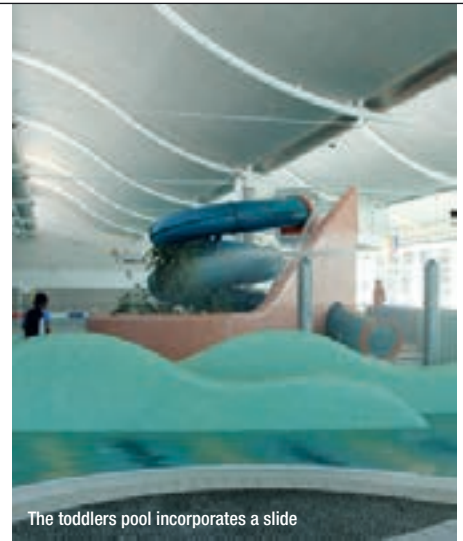
Blacktown City Council mixed dry and wet sports facilities together to save money when they considered the new Emerton Leisure Centre.

Bringing wet and dry facilities together provides many synergies and cost savings. Additionally, it increases the sense that the centre is a meeting place for the community. This is further enhanced by the future inclu-

sion of a community centre which had originally been planned as a separate facility.

The comprehensive indoor facility complements the existing 50 metre outdoor pool and places it in a landscaped park setting.

The dry sports are catered for with a two-court indoor basketball stadium which is linked to the indoor aquatic centre via a central spine. The stadium can also be used for



The toddlers pool incorporates a slide

a number of other sports, including futsal and indoor soccer, netball and volleyball.

A heated indoor 25 metre pool, program pool, leisure pool, spa, sauna and steam room complete the facility. A further stage of the facility is for a waterpark to be located alongside the outdoor 50 metre pool.

TompkinsMDA Architects were originally commissioned by Blacktown City Council to re-evaluate the feasibility master plan prepared by HM Leisure Planning and Prior & Cheney Architects, and to proceed to design development and documentation of approved Stage 1 works for the upgrading of the aquatic facilities at what was then called the Emerton Swim Centre.

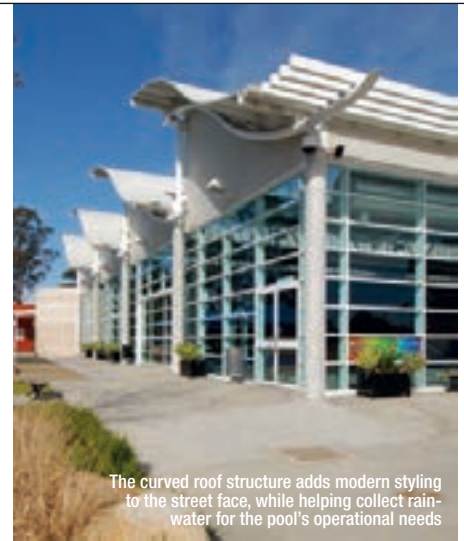
Independent consultants carried out preliminary reports to ascertain the condition of the existing pools, market research and feasibility.

The reports, together with the original project brief, informed the decisions made to determine TompkinsMDA Architects' master planning options. These incorporate increasing the variety of water bodies offered to include a 25 metre indoor heated pool, program pool and leisure pool.

General amenities were also improved to include a new kiosk, change rooms and staff facilities. A future creche/child minding, gymnasium and sauna are also projected.

As well as the two-court netball/dry sports hall, there will be a future community centre with a kitchen. This will be utilised in conjunction with the creche to form a large multipurpose space for functions provides a much needed meeting place for the community while reducing staffing costs associated with the separate centres that were originally proposed.

During the master planning design stage, Council made the decision to include a waterpark in the options as a "future vision" of where the Centre is intended to lead in years to come. Council agreed on a staged



The eight-lane 25m pool

The curved roof structure adds modern styling to the street face, while helping collect rainwater for the pool's operational needs

development with Stages 1 and 2 completed at a total cost of \$13.5 million.

Site and orientation

The site is located at the corner of Jersey Road and Popondetta Road at Emerton in Sydney's northwest. Jersey Road provides access to the greater Mt Druitt region and the location of the site along this road makes the Centre highly visible to passing traffic attracting convenience users as well as regular users to the Centre.

The site also housed a caretaker's residence which has been rebuilt in the new development, as well as paved seating and barbeque areas to the north of the site.

The new leisure centre is situated adjacent to Jersey Road running in a north-south direction parallel to the existing pools. A large eaves overhang on the east side of the main pool hall reduces the effect of early morning solar gain on the building while still allowing views across the parkland and the 50 metre pool.

Openings in the western facade of the building in the future creche and gym provide access to enclosed courtyards screened from the street to provide privacy and shading from the western sun. The roof form of this low level section is designed to allow maximum ventilation/air flow and high level light without compromising the security or privacy of these amenities.

The space to the north of the building has been maximised to provide patrons with a paved terrace and lawn area while still maintaining sun protection over the toddlers pool area and the interior of the centre during the summer months and allowing solar penetration in winter. The parkland surrounding the centre has been maintained, providing the flexibility of areas of soft and hard landscaping for active and passive recreation.


In summer, the operation of overhead bi-folding doors to the north and east allows movement between the indoor facilities and the outdoor spaces to be absolutely free and open and create cooling cross-breezes inside the pool hall.

Interior spaces

The various functions of the building are visually expressed differently so that as one passes along the operational walkway they are aware of the lofty space of the pool hall next to the lower box-like form of the ancillary services.

The new combined leisure pool and program pool, and the eight lane 25-metre pool are situated alongside the existing external 25 and 50 metre pool assisting pool staff in their management of the centre.

In keeping with the guidelines published by the Royal Life Saving Society, the shallowest water is located closest to the entry of the facility consisting of a zero beach area incorporated into the leisure pool and thus the deep end of the 25-metre pool is at the far end of the Centre.

The design incorporates air-to-air solar heat pumps and a rainwater harvesting system which enables fresh precipitation to be collected and re-used to supplement the Centre's operational water needs. 

Project details

> Project Team

Architect and Design Manager:
TompkinsMDA Architects
Contractor: Kane Constructions
Civil, Structural and Water Treatment/
Filtration Engineer: Geoff Nannes Fong
& Partners Pty Ltd
Building Services Engineer: Connell
Mott Macdonald
Acoustic Engineer: Renzo Tonin &
Associates Pty Ltd
Quantity Surveyor: Rider Hunt Sydney

> Specs

Building Cost: \$13.5 million

Construction Period: 61 weeks

> Dry Sports

Indoor soccer, 2 x indoor netball, 2 x
basketball, 3 x volleyball
Spectator Seating: 187 seats

> Wet Areas

Free-Form Leisure Pool/
Programme Pool
Surface Area: 300 square metres
Depth: 0 to 1.0 metres
Operating Temp: 30-31 degrees Celsius
Process: precoat DE/UV/hypo/CO2
Features: zero beach entry; close to
entry/control; soft landscaping

> 25m Lap Swimming Pool

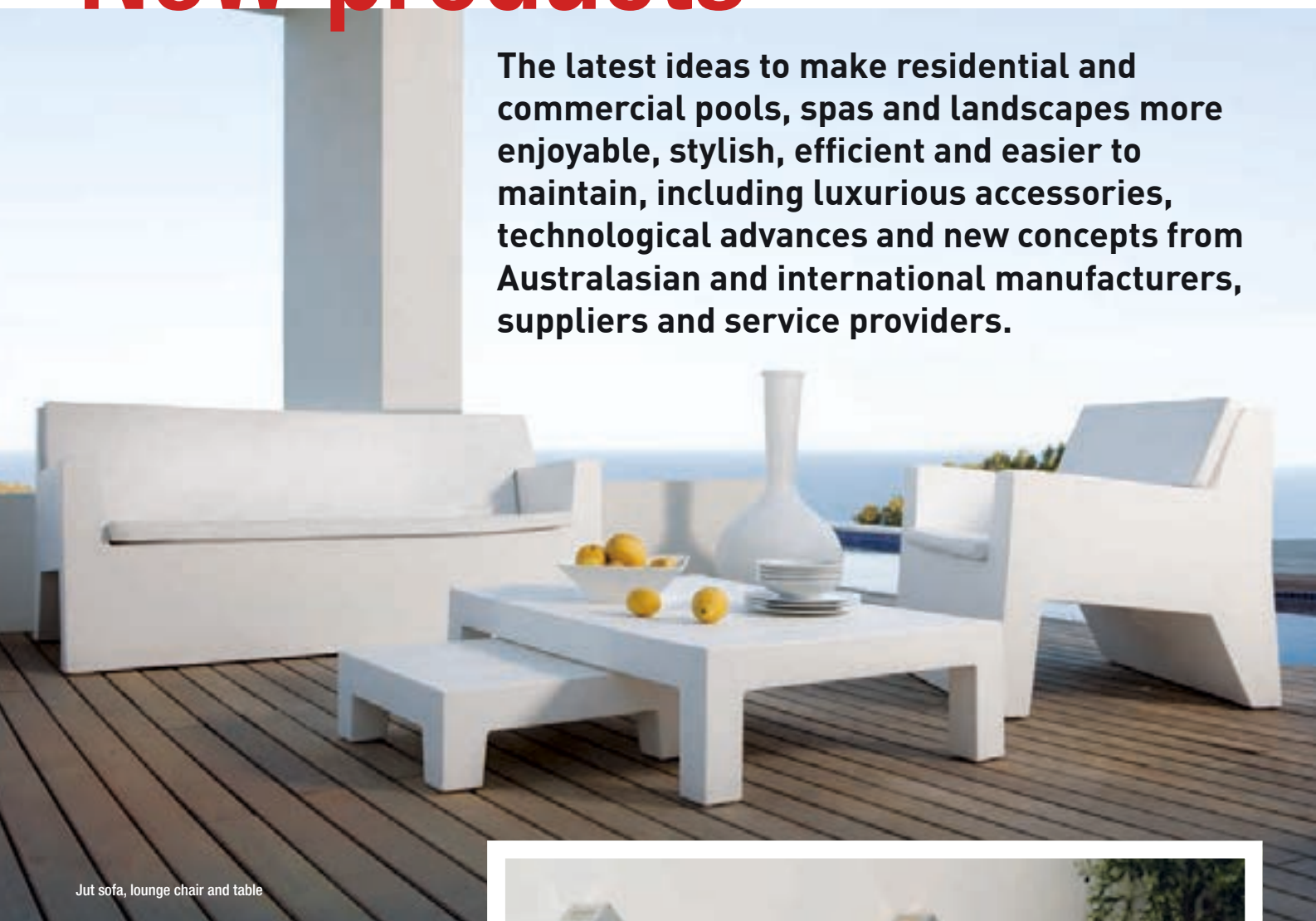
Size: 8 lanes, 25 x 20.4 metres
Surface Area: 450 square metres
Depth: 1.1 - 1.4 metres
Operating Temp: 27-28 degrees Celsius
Process: precoat DE/UV/hypo/CO2
Features: racing equipment; removable
starting blocks; storage for equipment;
spectator seating

> Other

First aid room, plant rooms, amenities
and change rooms, cafe/kiosk, care-
taker's residence

New products

The latest ideas to make residential and commercial pools, spas and landscapes more enjoyable, stylish, efficient and easier to maintain, including luxurious accessories, technological advances and new concepts from Australasian and international manufacturers, suppliers and service providers.



Jut sofa, lounge chair and table

MORE THAN JUT A SOFA

THE new Jut Sofa from Spanish design guru, Vondom, is an eye-catching modern design that brings angles to play to create a stylish new shape in outdoor furniture.

The outdoor sofa is 800mm x 1800mm x 800mm, and is complemented by a matching table and lounge chair, as well as outdoor table settings.

Manufactured from rotationally moulded polyethylene resin, the collection boasts dynamic rectilinear lines, extreme colour fastness in all outdoor conditions, allowance for drainage in wet weather and of utmost importance: brilliant comfort levels.

The Jut Sofa also offers the option of a deep padded removable seat and back cushion. Available in Fuschia, Grey, Ochre, Black, White, Red, Pistachio and Orange as well as translucent Ice.

For more information call Kezu on (02) 9669 1788, email info@kezu.com.au or go to their showroom at 69 O'Riordan Street, Alexandria, NSW.



Jut table setting



BULLNOSED PAVERS ADD DIMENSION

BORAL'S Aspenstone pavers can help transform an uninspiring backyard or tired pool area.

Available in three neutral tones – Buttermilk (pictured), Vanilla and Cappuccino – Boral Aspenstone is finished with a soft, even texture that feels gentle underfoot.

The outdoor pavers come in a large rectangular and bullnosed format (600mm x 400mm), which can help make a small area appear bigger while remaining cosy and private.

“Aspenstone pavers can beautifully shape outdoor areas by working harmoniously with other garden features, especially swimming pools,” says Boral Clay and Concrete Products National Marketing Manager, David Francis.

For more information on Boral's Aspenstone pavers contact Boral on 1300 134 002 or visit www.boral.com.au/landscaping.



DURABLE AND SLIP-RESISTANT DECKING

INTERGRAIN decking oils and stains are now complemented by the Intergrain UltraGrip slip resistant additive.

Intergrain's UltraDeck and NaturalStain incorporate Hydroguard technology, which according to the company outperforms conventional decking oils and stains in durability and resistance to UV.

It is simple to apply, especially as two coats can be applied on the same day, has water wash-up and low odour. It has been researched, developed and made in Australia for Australian conditions.

Intergrain UltraGrip is a slip-resistant additive that has been formulated for use in UltraDeck and NaturalStain to provide a textured finish that reduces the tendency for decking and timber walkways to become slippery when wet.

For more information go to www.intergrain.com.au.

SPLASH!

Advertising opportunities:



June issue is the pre-show issue which includes a 6 page promotion on SPLASH! Gold Coast and also gives exhibitors the opportunity to promote their participation in the show. This is an ideal way to inform our SPLASH! Subscribers where to find you at the show by including your stand number in your advertisement.

April issue is the SPLASH! Gold Coast Trade Show issue not only goes out to more than 5,000 subscribers but will also have the benefit of additional distribution at the Gold Coast show itself which will be attracting visitors worldwide.

Each visitor to the show will receive their copy of SPLASH! Magazine in the complementary showbag, so your message will get delivered to a very specific and targeted audience of your potential customers.

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Full page colour	2424.00 +GST
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60-SECOND WATER TESTING

FOCUS Products is launching a product it says will herald a revolution in the retail swimming pool market: the Waterlink Spin Lab.

The unit is a high-tech photometer that has a specially designed pre-dosed disk to test for Free and Total Chlorine (0-15ppm), pH, Total Alkalinity, Calcium Hardness, Iron and Copper.

The Waterlink Spin Lab will synchronise the test results instantly with the Focus Pool Analyser and the new Focus "Liqua" software to make an in-store water test within one minute instead of the current five minutes plus. This will allow retail pool shops to spend more time concentrating on giving expert advice to the consumer rather than being tied up behind the scenes testing their water through time-consuming methods.

Focus says the ground-breaking analysis system is so simple anyone can use it. Each sealed reagent disk contains the precise amount of reagent needed to run a complete series of tests: no measuring water, no vials to fill, no preparation time. The result is a very accurate complete photometer test in 60 seconds.

The unit has been designed over the past seven years by LaMotte in the US and is available to the Australian market through Focus Products now via pre-order.

For more information contact Focus on 1300 1 FOCUS (38287) or email revolution@focusproducts.com.au.

PHIX YOUR PH

FOCUS pHiX is quick and easy to use, while also being safer than traditional liquid acid. pHiX is a compressed tablet form sodium bisulphate combined with blended clarifiers that works by simply adding it directly into the skimmer box. As there are no more nasty fumes or possible spills to deal with, pHiX is a great solution for maintaining the pH of a pool. Being of a sodium bisulphate base, it has a less dramatic effect on pool water which enables it to balance more evenly and efficiently.

The one-shot easy-application dose is equivalent to 400-500mL of traditional liquid acid and is suitable for all pools. For application you need to first ensure that the alkalinity of the water is between 80ppm – 120ppm. Once this is achieved, you then test your pH.

If the pH is higher than 7.8 add one pHiX tablet directly to the skimmer box ensuring that you don't block the filtration system. Run your pump for four to six hours or until the tablet is fully dissolved. Re-test the pH and if it is not within the acceptable range for your pool, simply repeat the process. Once the pH is in the right range you can easily maintain it by checking the water weekly and adding a Focus pHiX tablet as required.

THE WINTERBOX

FOCUS Products has again launched their WinterBox for the 2012 season. The WinterBox contains a bottle of Focus Blackspot Longlife Algicide, a bottle of Focus Waterpolish and a Focus Pool Book all in a convenient carry box which includes instructions on winterising the pool.

The Focus Blackspot Longlife Algaecide is a tropical strength winterising algaecide suitable for all climates offering longlife control of algae formation. Focus Waterpolish is a super concentration clarifier to keep the pool clear and sparkling over the cooler months.

For more information call Focus Products on 1300 136 287.



POSEIDON DROWNING PROTECTION SYSTEM ARRIVES

MAYTRONICS Australia has brought the Poseidon early warning drowning protection system to Australia, in the process creating a new division called Poseidon Australia.

The Poseidon system continues to gain strong interest across the market for its world leading detection technology and its ability to complement the work of professional lifeguards in preventing the loss of life or serious injury due to drowning.

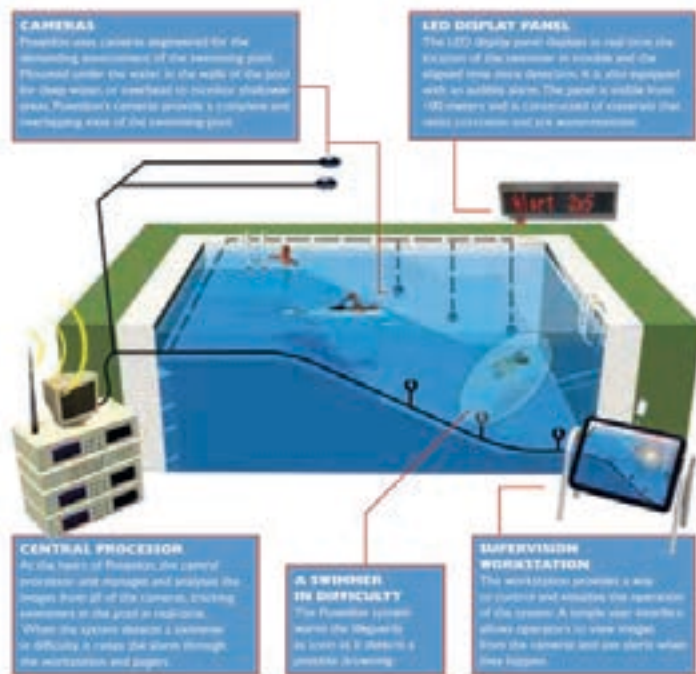
Designed in France in 1995 the state of the art detection system now plays a vital role in the prevention of drowning and is installed in over 200 locations with more than 20 recorded savings worldwide attributable to Poseidon combined with the work of lifeguards.

Poseidon is an intelligent system that uses proprietary computer vision technology to help provide constant surveillance of the pool and monitor the trajectories of swimmers.

The system analyses activity in the pool captured by a network of cameras mounted both above and below the surface. If a swimmer is motionless or in trouble beneath the surface, within as little as 10 seconds, the system will alert lifeguards via a pager or LED display panel. Real-time video images of the incident and its location are displayed (and recorded) immediately on a supervision workstation.

The system was not designed to replace lifeguards. It was created with the express purpose of assisting them to save lives.

Go to splashmagazine.com.au to see a video of the system in action. [WARNING - the video shows a real-life rescue and although it is successful it may disturb some viewers]



For more information call Troy Green on 0408 360 292 or email troy.green@maytronics.com.



WATERCO LAUNCHES NEXT GENERATION MULTICYCLONE

THE latest version of Waterco's MultiCyclone is called the Ultra and features larger capacity and an increased flow rate.

Waterco says it requires zero backwashing, has easy installation, maximised hydraulic efficiency, and saves both water and energy.

MultiCyclone Ultra combines centrifugal and cartridge filtration into one streamlined housing, creating an ultra-compact filtration system that can be vertically installed on a pool pump.

Thanks to its dual stage filtration, approximately 80 per cent of the incoming dirt load is spiralled down to Ultra's clear sediment chamber. The outgoing water is finally polished via its inbuilt cartridge filter, producing crystal clear water. This also means the capacity of its 75 square foot filter cartridge is

magnified by up to five times.

"The MultiCyclone Ultra is the third generation of the MultiCyclone technology and we have produced a model which has a larger capacity and increased flow rate," says Bryan Goh, Waterco's group marketing director.

"The Ultra's streamlined design combines the benefits of the MultiCyclone's pre-filtration technology and a compact cartridge filter. Simply put, this enables a reduction in pool equipment footprint and required pipework – thus reducing the filtration system's overall head loss. In addition, the MultiCyclone Ultra can be mounted using the specially designed support stand.

"All of its features ensure it is well suited for the average domestic in-ground or fibreglass pool," he says.

For more information go to www.waterco.com.au



Custom mix: Iris Azur, Iris Ocean & Niebla 2521-B



Award Winning Pool Tiling

Stunning effects have been achieved with this choice of "custom mix" Ezarri tiles – designed specifically for the Client to compliment their luxury home in Croydon Park NSW. This pool also won 1st place at the Tile & the Award of Excellence by the Australian Tile Council in the swimming pool category. Stonework by SNB Stone

SPANISH GLASS MOSAIC TILES

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SAFER FLOORING FOR WET CHANGE ROOMS

ALTRO has announced the launch of Altro Aquarius safety flooring with guaranteed performance in wet or dry conditions for combined shoe and barefoot use – including hard soled, rubber and training shoes.

This technological breakthrough revolutionises product selection for potentially wet areas, eliminating risk in a wide range of environments.

Altro Aquarius is the result of three years research and development work in direct response to customer feedback. Achieving both Class B and R10 to Australian Standard 4586 for shoe and barefoot use, Altro Aquarius provides optimum slip resistance in both wet and dry environments.

With Altro Easyclean Maxis PUR Technology, Altro Aquarius offers significant savings on cleaning and maintenance over its life cycle compared to non PUR-treated safety flooring. It is available in a range of warm, homely chipped and non-chipped colours, making it a perfect solution for applications in leisure centres and swimming pools.

Frequently, wet and barefoot users share the environment with those who are dry or wearing a variety of footwear. Until the arrival of Altro Aquarius, these areas proved problematical when it came to choosing flooring, with a slip risk for shoe wearers on wet floors. Altro Aquarius takes away the uncertainty of how to install safety flooring for mixed barefoot and shoe use, such as change-rooms in recreation facilities.

It has a 10 year warranty.

For more information call 1800 673 441, (03) 9764 5666 or email info@asf.com.au.



AQUASUN 3 SOLAR CONTROLLERS

DONTEK says their new range of solar controllers incorporates the latest technology with the simplest of operation. They accurately control the delivery of the unheated pool water to the roof collector, where it is warmed.

A clock function can be enabled which allows Solar Start and End times to be selected, eliminating nuisance early morning starts and the ability to select Off Peak run times.

The Aquasun 3CD is ideal for boosted systems, where the filter pump needs to be running before the solar pump is allowed to start. The filter pump is simply plugged in to the Aquasun 3CD which detects that the filter pump is turned on and then allows the solar pump to start if required.

All efficient controllers need to know the roof temperature so Dontek developed the Remote Range for when the going gets tough.

Aquasun 3BR with battery powered wireless roof sensor simplifies new installations and eliminates the need to find damaged wiring when upgrading or servicing. The UHF transmitter sends accurate roof temperatures directly to the controller for up to two years without battery replacement.

For more information call (03) 9762 8800 or email sales@dontek.com.au.

THE FUTURE OF DECKING

FUTUREWOOD specialises in eco-friendly timber replacement products with advanced features such as low maintenance, long wearing ability, and materials that are splinter free, rot proof, termite resistant and slip resistant.

The majority of Futurewood's timber replacement products range is made from a product called wood plastic composites (WPC). This is made from a combination of recycled HDPE, hardwood wood flour and rice husk/hulls.

Using a predominantly recycled product instead of a slow growing hardwood rainforest timber like Merbau for a deck is a double benefit for the environment as well as saving time and money in the long run.

Futurewood CleverDeck composite decking uses the NewTech Deck Clip deck-fixing system consisting of black PP clips and blackened stainless steel screws and drivers for fixing to either steel or timber joists. The deck clip system ensures there are no

ugly screw or nail holes plus it takes less than half the time to install.

CleverDeck is supplied as 138mm x 23mm x 5400mm solid decking board in Chocolate,

Mahogany, Slate Grey, Saltbush or Walnut. All boards are double sided with a sanded face featuring an indented wood grain pattern.

It also comes in 86mm x 23mm x 5400mm solid Eco-deck board

in a plain rough sanded finish in Mahogany.

For more information call 1300 484 308, email info@futurewood.com.au or visit www.futurewood.com.au.



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KH1025/0811/SC

Dye test showing disbursement of water from the surface to the floor of the pool.



AMAZING CIRCULATION THROUGH THE V-FITTING

YOU can save time, money and energy by replacing a standard eyeball swimming pool return line fittings with a V-Fitting.

The venturi technology “deep heats” while drastically enhancing circulation, improving chemical disbursement and reducing energy consumption. “Deep heating” highly complements the effectiveness of solar pool covers and solar systems.

The V-Fitting draws warmer surface water through strategically placed louvres, thrusting it to the floor of the pool creating a cleaner, easier-to-service swimming pool.

V-Fittings have no moving parts and simply attach by hand to threaded wall return line inlets.

Increased directional flow enhances circulation providing for a more efficient turnover; and improved turnover and filtration allows for reduced circulating pump operating hours. By deep heating, it also reducing the requirement for pool heater operating times while improving solar system performance.

The 360-degree adjustability allows for directional control of circulation. Aimed downwards, V-Fittings disrupt sediment build-up and debris from side walls and floor, increasing the effectiveness of swimming pool filters.

Aimed towards the surface of the pool, one or all V-Fittings can be utilized to control surface flow providing for improved skimmer performance.

V-fittings can also be used to target dead spots, steps and benches eliminating various algae build-up while improving chemical disbursement. Enhanced circulation makes the pool easier to service, saving technician’s time and energy.

These fittings are not currently stocked in Australia but are carried worldwide by Team Horner.

If you’re interested in the V-Fittings or wish to become a distributor, email lcarroll@teamhorner.com. You can find out more about this product at www.hxworldwide.com.



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