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NOTICE TO ALL READERS

Articles and advice in the ISPE Magazine are for guidance only. Further professional advice should always be sought before acting upon, or refraining from acting upon, a course of action. Health & Safety is of paramount importance and the correct PPE (personal protective equipment) should always be utilised before undertaking any job.

If in doubt, ASK!

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Stand out, Bring value!

Front Cover Picture

(Courtesy of Panorama Studios)

Aqua-Blue Designs were the specialist swimming pool designers and advisers to the architects on the building design, for this new pool facility at St. David's Holiday Park on Anglesey.

This is a popular destination for people from the cities of the north-west and the holiday park has an idyllic location by the sea with chalets, catering and now wet leisure facilities.

The project centred around a deck level 13 x 6.5 metre leisure pool which opened into a jetted therapy area at one end & adjoined a kiddies' pool at the other.

Aqua-Blue produced initial concept drawings and then detailed working drawings and specification for the mosaiced pools, spa area and H&V system.

These general arrangement drawings were supported by itemised equipment lists and a pipework isometric to assist the fitter. This drawing and specification package was then sent out to tender.

Aqua-Blue Designs assisted the client in analysing tenders and in the ongoing construction and handover phase. The remit included advice to the architects on vapour control measures and suitable durable interior materials to be used.

The ducted air handling system to the adjacent changing areas was included in the H&V design. Two SLX1200 filters were used, with two 2.2kW BP commercial pumps, all

from Certikin International Ltd.

ZEOCLERE filter media from MSI was used to improve water quality.

The 'Bec sys3' Chlorine & acid dosing system & PAC dosing from Aquatrol Ltd. was successfully deployed, in conjunction with 2 no. UV pro ultra-violet units.

A Calorex Delta 6 AHU was used, also supplied by Certikin, and the primary heat source is two 25kW Grant oil fired boilers.

The pool hall structure is of Glulam timber construction with upgraded insulation to reduce running costs as far as possible, and the glazed south elevation allows plenty of solar gain.

As the photo illustrates, when swimming in this pool you can imagine you are swimming straight out into the sea beyond, although the pool temperature is somewhat more inviting than the Irish sea!

Footnote: We have just received a silver award for 'Commercial Pool of the Year', in respect of St David's in the UK Pool & Spa Awards 2017.

Architects: R. Arwel Davis Ltd.

Pool Engineers:

Moormead Leisure Ltd.

**Designer: M.S. Cormacey. MISPE,
Aqua-Blue Designs Ltd.**

Photography: Panorama Studios

With thanks to:

Michael Cormacey, MISPE,
Aqua-Blue Designs – 02380 260888
Email: mc@aquabluedesigns.net
www.aquabluedesigns.net

It hardly seems a year ago that I was typing the editorial for the January 2017 issue. Where does all the time go?

SPATEX 2018 is almost upon us and, once again, it's looking bigger, better and more exciting than ever. There will be some changes on the ISPE Stand for 2018 but the TV we used for the first time in 2017 will be back, featuring the rolling photo display of the 'Institute at Work' with pictures from ISPE Seminars, and elsewhere, of various 'pool industry personalities' from over the last thirty nine years or so; come and see if you recognise anyone!

We presented two excellent ISPE Seminars, in October and November, and were delighted to welcome fifty six delegates in October for our 116th Seminar, the highest number since 2008. We also hope to see a good number at the forthcoming March ISPE Seminar, our 118th on

Thursday 8th March, and programmes are available to download from the 'Diary Dates' section of the ISPE website (www.ispe.co.uk) if you haven't already seen one.

[The 2018 ISPE Student Exams](#)

These will take place on Monday 19th March and letters with booking forms will be sent to all paid-up student members in mid-February. If you do not receive your letter, please contact us before 1st March, but please do not try and book a place until you receive your booking form.

[Situations Vacant](#)

Due to space restraints, we are unable to include our customary situations vacant summaries in this issue but the ISPE website has the full listings.

I hope you all have a successful SPATEX and a profitable Spring. Keep busy!

Ross Alcock - January 2018.

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HOT TUB

SPATEX Supports Trade Aid

SPATEX has made a donation to Trade Aid, a charity whose mission is to establish trades such as carpenters, tailors, mechanics, blacksmiths and builders in impoverished communities.

It is a cause close to the heart of John Asher, ex-ISPE President and Honorary Treasurer, who is the founder and chairman of the charity. John is also a stalwart and unsung hero of SPATEX, having given up many hours of his time to work tirelessly behind the scenes to ensure the smooth running of the Show.

The SPATEX donation bought a box of tailor's tools for a training station in Malawi. The box was given to a disabled man who had lost his job after an accident and it enabled him to return to his profession.



In the 11 years that Trade Aid has been in operation, it has raised over half a million pounds and supplied well over a thousand boxes to 35 different countries around the world. As students pass their exams, they are awarded a Trade Aid box in the trade they have been initiated into, so they can take the skills back to their villages and start up businesses, thus supporting their families and community.

SPATEX 2018 – where more means more!

Bowing to an overwhelming demand for MORE exhibitor space, the SPATEX team in late autumn extended the floorplan by

An advertisement for Aquaflex. The top part features three categories: 'Pool Liners', 'Solar & Winter Covers', and 'On-Site Lining'. Below this is a large image of a swimming pool with a house in the background. The word 'AQUAFLEX' is written in large, blue, stylized letters across the middle. Below the name is the tagline 'The UK's leading Liner specialists'. At the bottom, there is contact information: 'Aquaflex Limited', '1 Edison Road, Churchfields Industrial Estate, Salisbury, Wiltshire, SP2 7NU', 'Tel: 01722 328 873 Fax: 01722 413 068', and the website 'www.aquaflex.co.uk'. There are also social media icons for Facebook and Twitter.

500 sq m thus making the UK's only dedicated wet leisure Show, BIGGER, BETTER and BOLDER than ever before.

Vibrant Show

More exhibition space, means many more exhibitors. At the time of going to press, 21 companies new to the Ricoh Arena had signed up. As far flung as Canada, America, they add an even greater international flavour and representation. One such company is EasyCare Products, based in California, which is looking to introduce into the UK and European market its pool surface products that require no scrubbing, acids or draining. Other names include: Active Chemical Products, Be Well Spas, Fairland Electra Ltd, Hexagone UK, Humidity Solutions, Meaco (UK) Ltd, Megaspas UK, Plimat UK, Pool Cover Parts Ltd, Softub UK, Thermal Spas, Evoqua, Global Stone, Hanna Instruments, Landscape Show, Reliance Plus Ltd, Spaeuro Ltd, Vitra UK Ltd, Pool Maintenance Ltd, and Riptide Pools Ltd. SPATEX represents a broad cross section of the wet leisure industry.

Not only is the pool sector, both commercial and domestic, well catered for but, with 24 leading spa companies, you can be assured of an exhibition hall full of the latest spas and hot tubs. Indeed, all products and innovations under the wet leisure umbrella will be showcased in abundance, from enclosures, water features, saunas and steam rooms, safety flooring and tiling.

They make up SPATEX's impressive exhibitor line-up, that is well in excess of a hundred top quality industry names. For an up to date exhibitor list go to www.spatex.co.uk.

The Show that keeps on giving

Not just a fantastic showcase, SPATEX 2018 plays host to a double seminar and workshop programme that is totally unique in its depth and scope for providing free education and training. Miss SPATEX and you miss a valuable free resource.



Thanks to ISPE's gravitas and fantastic support, SPATEX is able to offer its visitors a unique bank of expertise. Held throughout all three days of the Show, the jam-packed seminar and workshop programme offers valuable education and training, all for free! Highly popular, it is now firmly established as an integral part of SPATEX.

Led by esteemed industry experts, the ISPE workshops bring you up to date on all you need to know in the wet leisure industry, whatever your job or interest. For 2018, there are 21 topics, 16 of which are new, and they cover all areas of the pool and spa trade, both commercial and domestic.

Whether your interest is in water treatment or testing, commercial pool operation, fitting covers, servicing heat pumps, tiling, construction, servicing or maintenance, the workshops offer invaluable tips, advice and ideas that you can take away to enhance your skillset and use in times to come. CPD points and certificates of attendance are available to all attendees.

For the full list of speakers and the seminar and workshop programme for both arenas please visit www.spatex.co.uk

Industry-wide endorsement

In addition to ISPE, SPATEX 2018 has the backing of other heavyweight industry associations which give further added value and interest to visitors. PWTAG (Pool

Water Treatment Advisory Group) will be holding an all-day seminar on the Thursday of the Show, focussing on the findings of PWTAG's recently revised publication, Swimming Pool Water 2017. An impressive roll call of experts will give the latest water treatment advice that is essential for all designers, suppliers, operators and managers of all types of spas and pools, from the smallest to the largest municipal leisure complex.

The STA (Swimming Teachers' Association) is holding a Pool Plant Conference on the first day of the Show in seminar arena 2 from 10.30am to noon. This will bring delegates up to date on the new pool plant operations qualification; the hidden dangers of spas and the STA swimming pool water management quality mark in partnership with Right Directions. The ASA's (Amateur Swimming Association) Facilities Officer Richard Lamburn will also be giving a talk on Tuesday at 15.30.

There will be a **SPATEX Welcome Desk** so visitors with any queries can be pointed in the right direction. This will be of particular help to anyone with technical questions looking for a starting point.

Network with SPATEX

Rub shoulders with colleagues at the Industry's Oscars evening - the British Pool & Hot Tub Awards 2018 ceremony and dinner on Tuesday January 30th (contact Jan in the BSPF office for tickets T: 01264 356210). Hot on its heels is the SPATEX themed Networking party on Wednesday

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evening in the Ricoh's Clubhouse bar, straight after the exhibition closes, to which all exhibitors and visitors are warmly invited. Free drink, nibbles and great chat are promised. And, if all that's not enough, there's the Ricoh Arena's luxurious G Casino just yards from the exhibition hall.



Registration is FREE and SIMPLE at www.spatex.co.uk

SPATEX 2018 The Ricoh Arena, Ericsson Exhibition Hall, Coventry Tuesday January 30th to Thursday February 1st 2018. Register FREE at www.spatex.co.uk and sign up for news. on The Ricoh Arena offers 2,000 free car parking spaces and is conveniently situated just off Junction 3 of the M6 motorway which makes it less than a two-hour drive for 75 per cent of the population.

For further information call Michele or Helen on +44 (0) 1264 358558 or email michele@spatex.co.uk; helen@spatex.co.uk

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PROGRAMME OF WORKSHOPS AND DEMONSTRATIONS

Organised by the ISPE on behalf of SPATEX Ltd.

ERICSSON EXHIBITION HALL, RICOH ARENA, COVENTRY

Tuesday 30th January - Thursday 1st February 2018

Ref.	Subject Presentations	Tue. 30 th Jan.	Wed. 31 st Jan.	Thur. 1 st Feb.
1.	HEALTH AND SAFETY UPDATE FOR THE POOL & SPA OPERATOR An annual update on legislation and cases over the past 12 months and details of any forthcoming changes. (20 minute session.) Colin Jenkinson, MISPE - Leisure Safety Training	10.00-10.20		
2. NEW	SWIMMING POOL LINERS Minimising problems by managing customer expectations. Dan Thatcher, MISPE and Bradley Armstrong - Aquaflex (20 minute session)	10.30-10.50		
3. NEW	POOL AND SPA CONTROL PANEL TECHNOLOGY Think beyond the box! Andy James, MISPE - Golden Coast (20 minute session)	11.00-11.20		
4. NEW	HEAT EXCHANGERS Best practice for selection, installation, operation & maintenance. Tony Carter - Bowman (20 minute session)	11.30-11.50		
5. NEW	THE INCREASING SIGNIFICANCE AND ROLE OF UV IN THE MANAGEMENT OF SWIMMING POOL WATERS The increasingly common use of UV in swimming pools has led to updated guidelines in the PWTAG "Red Book" to ensure the application is effective and to maximise the benefits of this technology. The background and principles behind these guidelines will be presented and discussed. Dr. Ian Hague - Suez Water UK (30 minute session)	12.15-12.45		
6. NEW	A TYPICAL DOMESTIC POOL FILTER - STRIP DOWN & REBUILD A "hands on" demonstration detailing what would normally be involved when stripping down and rebuilding a domestic pool filter and the likely problems one might encounter. (45 minute session) Chris Carr, FISPE - C.C. Filtration Services and Phil Barlow, FISPE - Philip Barlow Swimming Pools	1.00-1.45		
7. NEW	FILTRATION Just how important is a filter? Jimmy Lamb, TnISPE(Cert.) - Pollet Pool Group (30 minute session)	2.00-2.30		
8. NEW	AN INTRODUCTION TO THE BIOCIDAL PRODUCTS REGULATION (BPR) The impact on European companies who manufacture, sell or distribute pool treatment products. Joanna Ganatsiou, BSc PhD - Lonza (30 minute session)	2.45-3.15		
9. NEW	LEGIONELLA RISKS WITHIN SWIMMING POOLS AND SPAS Are swimming pools a risk for Legionella? We will review what increases a pool's Legionella risks and following the introduction of 'HSG282 Control of Legionella and other infectious Agents in Spa Pool Systems', we will discuss the realities of Spa Pool Legionella Risk Assessments, and how we can meet our obligations. Robert Byrne - Brio Group (30 minute session)	3.30-4.00		

Ref.	Subject Presentations	Tue. 30 th Jan.	Wed. 31 st Jan.	Thur. 1 st Feb.
10.	AN INTRODUCTION TO THE BIOCIDAL PRODUCTS REGULATION (BPR) (<i>Repeat of session no. 8</i>) The impact on European companies who manufacture, sell or distribute pool treatment products. Joanna Ganatsiou, BSc PhD - Lonza (30 minute session)		10.15- 10.45	
11. NEW	PUMP INVERTER TECHNOLOGY How to fit a larger pump and still save money. Will Dando, FISPE - Plastica Ltd. (20 minute session)		11.00- 11.20	
12. NEW	HOT TUB & SPA HEATING A new approach for faster heat up and lower energy costs. Tony Carter - Bowman (20 minute session)		11.30- 11.50	
13. NEW	HSG282 What you & your spa customers need to know. Martin Rigby - Complete Pool Controls (30 minute session)		12.30- 1.00	
14. NEW	AN OVERVIEW OF WATER TESTING THROUGH THE YEARS From humble beginnings to sophisticated technology including a reminder of what needs to be tested. Colin Day, FISPE - Lovibond Tintometer (30 minute session)		1.15- 1.45	
15. NEW	PLUNGE POOL CHILLERS A beginners' guide to selecting, sizing and installing plunge pool chillers. (30 minute session) Graham Kneale, FISPE and Michael Coyle, TrISPE(Cert.) - Certikin Int.		2.00- 2.30	
16. NEW	SWIMMING POOL PIPEWORK - FILTRATION & BACKWASH VELOCITIES A closer look at what the objectives are when complying with the current Standards and the effect on different types of media available for swimming pool filtration. Chris Carr, FISPE - C.C. Filtration Services (20 minute session)		2.45- 3.05	
17.	OH NO! WHAT DO I DO WHEN THINGS GO WRONG? How do I safely add chemicals if my controller packs up? At what levels should we close pools & spas? Why do we need to continuously floc? Why do I need to test every two hours in a spa? Why do I need to revalidate my qualification every three years? Allen Wilson, FISPE - Studies in Work (45 minute session)		3.30- 4.15	

Ref.	Subject Presentations	Tue. 30 th Jan.	Wed. 31 st Jan.	Thur. 1 st Feb.
18.	PUMP INVERTER TECHNOLOGY (<i>Repeat of session no. 11</i>) How to fit a larger pump and still save money. Will Dando, FISPE - Plastica Ltd. (20 minute session)			10.15- 10.35
19.	WHY WE MUST REGULARLY MICROBIOLOGICALLY TEST How do we comply with the legal requirements of HASAW, COSHH and best guidance? What are TVCs, Coliforms and Pseudomonas? When should we close and how to prevent bad readings? Allen Wilson, FISPE - Studies in Work (30 minute session)			11.00- 11.30
20. NEW	CREATING A LOW HAZARD PLANT ROOM Intended for the commercial/ public pool sector, this presentation will focus on the important health & safety, operational and pool water chemistry issues to consider when choosing between the various disinfection and pH correction methods available. Andrew Gaffey - Gaffey Technical Services (30 minute session)			12.15- 12.45
21. NEW	TILING IN SWIMMING POOLS Ensuring that the correct waterproofing, adhesive and grout choices are made to ensure a quality long-lasting tiling installation. Adam Willmott - Ardex (30 minute session)			1.00- 1.30

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The 37th ISPE AGM

The 37th Annual General Meeting of the Institute took place as part of the ISPE's 116th One-Day Seminar on Thursday 12th October, 2017 at 2.15pm at the Watermill Hotel, near Hemel Hempstead, Hertfordshire.

ISPE Vice-President and Chairman of the meeting, Colin Day, FISPE, opened the meeting and read a list of apologies for absence.

The first item on the Agenda was: *To receive and consider the Accounts for the year ended 30th June, 2017, together with the report of the Directors and Auditors thereon.*

This motion was proposed by Ben Studdy, FISPE, seconded by Allen Wilson, FISPE, and agreed unanimously.

The second item on the Agenda was: *To elect two members to the Council of Management.*

Phil Barlow and John Scott resigned in accordance with

Article 47 and, being eligible, offered themselves for re-election in accordance with Article 48.

No other nominations were received.

This motion was proposed by Ian Betts, FISPE, seconded by Bob Kent, FISPE and agreed unanimously.

The third item on the Agenda was: *To appoint Lanham and Company as Auditors to the Company and to authorise the Directors to fix their remuneration.*

This motion was proposed by Edward Campbell-Salmon, MISPE, (who later in the day became a 'FISPE' - see page 26) seconded by Phil Barlow, MISPE, (later, in November, a 'FISPE') and agreed unanimously.

This concluded the official business of the Annual General Meeting and the Chairman thanked everyone for attending and closed the meeting at 2.25p.m.



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A Wealth of Water Engineering

John Dawes, FISPE - March 2017

The Scots are renowned engineers the world over (and beyond) with pioneers like Robert Stevenson (lighthouses & steam engines), Thomas Telford (canals & roads)... and Scotty, Chief Engineer (Starship *USS Enterprise*). Today, we have leading Scottish water engineers, such as Barr & Wray ('experts in everything water'), Biwater ('water treatment specialists'), James Williamson ('hydro-electric engineer'), all contributing to a wealth of water engineering skills.

service with paddle steamer *PS Comet* delivering customers to his wife's riverside hotel, leaving him to widen his growing interest in early steamboats. Both Comets' paddle steamer engines, as well as their boilers, were built in Glasgow, which soon became a centre for building steam-powered boats.



PS Comet 1812

Over 200 years ago, Henry Bell, a hotel & baths owner in Helensburgh, pioneered steam-boat travel on the River Clyde between Glasgow and Greenock. His innovative river ferry service evolved from an experimental steam engine that he had installed four years earlier to pump seawater into Helensburgh Baths. He then set about creating the first commercially successful ferry



Loch Sloy HE power station

James Williamson (1881–1953) was the engineer who planned the Sloy HE scheme (1945–1950), including design of a holding dam high above in the mountain to maintain a sustainable resource for electricity generation. Water is stored in Loch Sloy ready for more power to be called for

by the National Grid. When the reservoir valves are opened, water rushes down a 3km tunnel into four huge pipes to rotate the loch-side turbines and generate electricity. Overnight, when there is a surplus of cheap electricity in the Grid, water can be pumped up again to Loch Sloy, ready for further power regeneration later.

The HE regenerative power station on the banks of Loch Lomond was 'switched on' in 1950, putting a water power resource that had been neglected to good use: as a result it increased industrial production and made the Highlands of Scotland, 'a richer and happier place...' quite an epitaph for James Williamson.



Falkirk Wheel collecting

Originally there was a flight of 11 canal locks between the Forth & Clyde Canal and the Union Canal requiring most of the day to progress a barge. Planners wanted to create a landmark structure as part of a Millennium Link by reconnecting the canals to offer just half-an-hour progress. They decided upon a unique yet functional rotating boat lift named after the nearby town of Falkirk.

The Falkirk Wheel has an overall diameter of 35m and comprises two opposing arms carrying two water-filled caissons or gondolas, each with a capacity of 250,000 litres and always holding a combined weight of 500 tonnes. The wheel raises boats by 24 metres and it is the only rotating boat lift of its kind in the world.

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A team of architects and engineers was assembled by British Waterways, under the leadership of Tony Kettle from architects RMJM 2003 (designers of the Royal Commonwealth Pool, Edinburgh 1970 and the Scottish Parliament Building, 2004). The whole Falkirk project had a budget of £78 million. A final design concept was completed over a three-week period during the summer of 1999 with Butterley Engineering and M G Bennetts Engineers. Great care is taken when transporting boats up or down to maintain the water levels on each arm, thus balancing the weight. According to Archimedes' Principle, floating objects displace their own weight in water, so when

a boat enters, the amount of water leaving the caisson weighs exactly the same as the boat. Water levels in each caisson are controlled within a level range of 37mm.

The structure – making a dramatic sculpture – was opened in 2002: today around 400,000 people visit the wheel annually.

Falkirk Wheel has been featured on the reverse side of a new series of £50 notes issued by the Bank of Scotland. This series of notes commemorates Scottish engineering achievements with illustrations of bridges in Scotland, such as the Glenfinnan Viaduct and the Forth Bridge. So, start collecting your Scottish £50 notes today for a wealth of engineering.

Industry-Supported CPD Training

The ISPE Continuous Professional Development (CPD) scheme was launched at SPATEX 2017 and there are around sixty individuals who have enrolled. The Industry-supported training sessions are free to attend and available to all, and delegates contact the hosting company to book a place. The Autumn/Winter training dates will appear in the news section of the ISPE website. We hope that more companies will get on board and start offering some half- or full-day free training. Please contact Ross at ISPE if you have something to offer.

New dates announced for training to be held at:

**Complete Pool Controls Ltd,
Unit 2, The Park, Stoke Orchard,
Bishops Cleeve, Gloucestershire,
GL52 7RS**

Wednesday 17th January 2018

Wednesday 28th February 2018

Wednesday 21st March 2018

Programme

09.00 – 09.30 Coffee and registration

09.30 – 10.30 Basic dosing and control principles / considerations when selecting a system

10.45 – 11.30 Dosing devices available and selection criteria / installation guidance

11.30 – 12.30 Health & Safety dosing related considerations

12.30 – 1.30 Lunch

1.30 – 1.45 Factory tour

Each session is worth

4 CPD points.

Bookings must be made in advance with Linda Brueford at CPC on

01242 662700.

(Please advise of any special dietary requirements when booking.)



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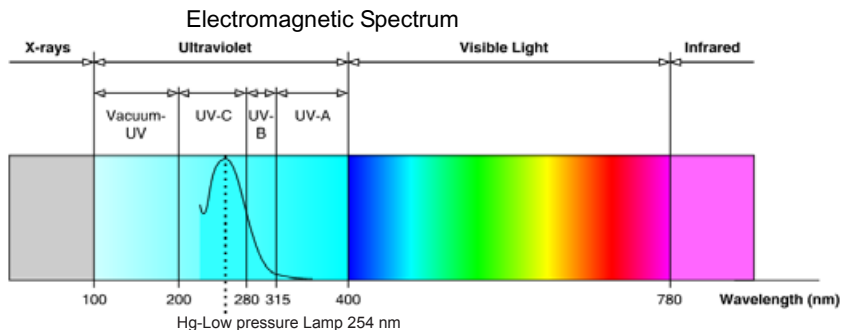
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New Members and Students

We extend a very warm welcome to those named below who have recently joined or re-joined the Institute. Please contact ross@ispe.co.uk if you have a friend or colleague who would like to join the Institute

Agnew, D.	Falcon Pools	Leonard, J.	London Swimming Pool Co.
Aldridge, C.	Merlin Pools and Spas	Lovett, M.	Unicorn Pools and Hot Tubs Ltd.
Amos, R.	Falcon Pools	Maharaj, M.	Wales
Baldwin, A.	Fowler Swimming Pools Ltd.	McGarry, K.	London Swimming Pool Co.
Bedwell, D.	Grayfox Swimming Pools Ltd.	McPherson, D.	Aqua Platinum Projects
Bevan, D.	Aqua Platinum Projects	Metheringham, K.	Grayfox Swimming Pools Ltd.
Blundell, W.	Aqua Platinum Projects	Morrissey, P.	P4 Services Ltd.
Borley, V.	Tanby Swimming Pools	Perrin, D.A.	Oxford Pools,
Brown, C.	PoolSan Direct (Leisure) Ltd.	Phillips, R.	Aqua Platinum Projects
Brown, D.	R.T. Swimming Pool Services	Pickstock, M.	Guncast Swimming Pools Ltd.
Brown, J.	Water Babies	Richardson, C.	Fowler Swimming Pools Ltd.
Cairns, R.	Fontus Environmental	Roberson, P.	Splash International Ltd.
Camburn, P.	Fowler Swimming Pools Ltd.	Roberts, M.J.	Complete Pool Controls Ltd
Clarke, M.	Aqua Platinum Projects	Rust, J.	Harlequin Swimming Pools
Colver, K.	Andy's Pools	Shaheen, I.	Metro-Pools
Crouch, C.	Plastica Ltd	Sprigge, S.	Hydrocare Home Leisure Ltd.
Errington, A.	Ambassador Pools	Taylor, A.	Aqua Platinum Projects
Harrold, J.	Pollet Pool Group	Vine, G.	Trufit
Hart, S.D.	Aqua Platinum Projects	Warne, I.A.	Plastica Ltd.
Hodges, T.	Aqua Platinum Projects	Watson, M.	Wrightfield Pools
Hopkinson, S.	Ambassador Pools	Webb, B.	Calypso South Ltd.
Johnson, D.	Fowler Swimming Pools Ltd.	Weeden, E.	Plastica Ltd.
Johnson, W.	RT Swimming Pool Services	Whitefoot, M.	Harlequin Swimming Pools
Knight, J.	Aqua Platinum Projects	Wilkinson, C.	Grayfox Swimming Pools Ltd.
Knights, R.	Romney Sands Holiday Park	Wilson, M.D.	Fowler Swimming Pools Ltd.
Lamming, P.	Calypso South Ltd.	Wylie, H.	Aqua Platinum Projects
Leaning, M.	Grayfox Swimming Pools Ltd.		

ISPE Seminar report - UV Systems in Pool Water



We are grateful to Dr. Ian Hague who kindly supplied this article based on his ISPE Seminar presentation in October 2017, "UV Systems in Pool Water".

Suez Purification and Disinfection Systems have been designing, manufacturing and supplying globally UV, Ozone and Advanced Oxidation Process (AOP) equipment for over 30 years from our factory in Scotland under the brand name triogen®.

The UV offering in the wet leisure and particularly swimming pool market has been developed and refined over the last few years and these improvements have been recognised in the new Pool Water Treatment Advisory Group (PWTAG) publication "Swimming Pool Water Treatment and quality standards for pools and spas", released in November 2017.

Ultraviolet radiation ranges from wavelengths of 100nm to 400nm and is sandwiched between visible light and X-Rays in the electromagnetic spectrum. It is divided into UV-A, UV-B, UV-C and V-UV, in order of decreasing wavelengths or increasing energy.

Of these the two main effects in pool waters are:

- UV-C between 200 and 300nm (with a maximum at 265nm) providing the germicidal effects;
- V-UV below 230nm providing the majority of the oxidation effects.

The UV-C is absorbed by adjacent thymine molecules in the (DNA) of the target organism, breaking the hydrogen bond with adenine and forming a dimer. This interferes with DNA replication and cell production. In addition RNA and proteins exposed to UV take part in inhibition reactions within cell structures. Given a sufficiently high UV dose the genetic disruption is such that the organism can no longer function and subsequently dies. This is secondary disinfection in swimming pools and ensures excellent microbiological control of pool waters. UV is effective against chlorine resistant *Cryptosporidium*.

The V-UV acts to destroy chloramines by absorption and breaking chemical bonds, providing excellent quality water and air quality, ensuring irritation of eyes, ears, mucous membranes and skin is minimised, and building fabric lifetime is maximised.

There are two types of commercially available UV sources (lamps) for pool waters, low pressure and medium pressure. The former only emits light at two discrete wavelengths, 185 and 254nm. Medium pressure lamps have a continuum of spectral outputs within the whole UV range. Therefore it can be seen that to achieve disinfection and chloramine control, a medium pressure lamp is essential.

The correct sizing of a UV system is vital to achieve the desired dose, and hence, effect. It critically depends on water clarity (UV transmission {UVT}), the intensity (power) of the UV lamp and the water flow. The new PWTAG publication states a minimum dose of 60mJ/cm² and a UVT of not greater than 94% measured at 254nm in a cell with path length 1 cm. The water flow is the full flow through the filters and therefore the only variable is the intensity of the UV lamp. This is chosen by the UV equipment manufacturer and supplier using theoretical software mapping and Computational Fluid Dynamics (CFD) calculations and now validated by independent international standards such as NSF/ANSI Std 50 to confirm a 3-log (99.9%) reduction in the viability of *Cryptosporidium parvum* oocysts. UV dose values should be guaranteed by the manufacturer throughout the lamp lifetime.

There are three main components of a UV system, the vessel or reaction chamber, the associated ancillaries and the control panel.

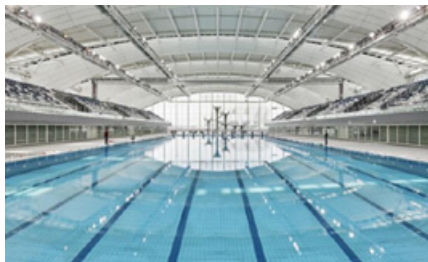
The UV vessel should be installed in the full flow after the filters but before the heater and chemical dosing with a bypass to allow pool usage during UV vessel maintenance. It should be manufactured from electropolished 316L stainless steel as a minimum, although more corrosion-resistant materials such as special grade alloys Super Duplex and SMO254 or titanium may be required and necessary. In addition to the lamp and thimble (sleeve) the vessel should include a complete wiper mechanism, UV sensor, temperature sensor, vent and drain. Ideally the wiper should be automatic, but, if not, then a manual operation should be undertaken twice a day. This can be the case for lightly used pools. The UV sensor, which measures the output of the lamp(s) should be wiped along with the thimbles, checked every 6 months and recalibrated annually.



The associated ancillaries include the chamber bypass arrangement and valves, strainer and any pipework likely to have significant incident UV exposure. The strainer must be installed downstream of the UV chamber and have an aperture of less than 1mm to allow the collection of quartz shards which could

otherwise enter the pool. The local pipework such as bends should be stainless steel or UPVC BS 3505 Class E and definitely not ABS.

The control panel should be manufactured as a minimum IP 54, polyester-coated mild steel in accordance with the procedures to the ISO 9001:2008 QMS and CE approved. The medium pressure lamps can be driven by an energy efficient electronic power supply (ballast) to allow variable power adjustment to the lamp providing precise dose control, minimising power use and extending lamp life. If the control panel has cooling fan filter pads fitted they should be replaced at least annually and any filter mats should be checked visually and cleaned every 3 months, as necessary.



One of the significant improvements in the new PWTAG publication is the enhancement of necessary maintenance schedules which should follow the manufacturer's recommendations. Apart from the above referenced items it is vitally important that the UV lamp, thimble O ring and all wearing parts of the wiper are changed at the correct frequency. The thimble cleaning is particularly important and the design should be

such that this can occur without the inconvenience of mechanical dis-assembly.

In summary, the new PWTAG publication has reinforced and confirmed the recent advances in the market to ensure that UV systems are manufactured to quality standards, the UV dose and effect is validated, and maintenance procedures are enhanced.

Dr. Ian Hague, Sales Director
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Wilson's Walkabout

Hi and a happy new year to you all.

I spent Christmas and the New Year practicing coughing until I got it to the enhanced level of an art form. The cough has now gone and I don't really miss it one little bit. One of my Christmas presents was the complete set of 'Breaking Bad', seventeen DVDs in all and I recommend it most thoroughly. So thanks Tom (my Grandson) for that. So when my sleep was interrupted by frequent coughing fits, I would watch a few episodes. The downside for those who do not know of its existence is that the hero/anti-hero of 'Breaking Bad' has been diagnosed with lung cancer and I watched it during "coffin" fits, I almost managed to convince myself that I also had lung cancer. Anyway, I am no longer coughing, partly due to Bob Kent, FISPE, who thoughtfully sent me a bottle of Metatone, Thanks Bob, you legend! Note: Metatone is not an illicit substance.

As part of my 'bucket list' I decided to take up bungee jumping once more. This is something that I spent the 80s and 90s doing on about a dozen occasions in exotic

locations such as Bali, Las Vegas, New Zealand, Australia and France and below is a photo taken in the rain forest at Cairns, Australia in 1998.



Cairns, Australia 1998 and yes I am upside down in it

Any sport that you can participate in whilst full of lager was, in those halcyon days, good enough for me. So over we went to France, we being Freddy and me. I love going anywhere with Freddy as I feel bullet proof in his company. The Bungee site with the 200 foot (sixty one metres) jump was close to St Lo in Northern France and so off we went to Le



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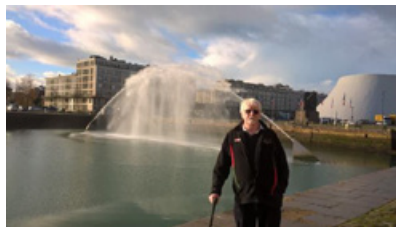
Havre as I also wanted to visit MUMA, the museum of modern art in Le Havre. Here is sited the biggest collection of Impressionism paintings outside of Paris and well worth a visit with an entry price of only seven Euros. I had been in Le Havre a month prior on a day ashore from a cruise ship, but Sandra insisted we spent the day shopping, which, in reality, we could have done in Gloucester. So yet another reason for going back, especially as I could tell Sandra the reason for the soirée was to go to an art gallery.

On the first day we visited Honfleur, a beautiful ex-fishing village on the far side of the Seine. I say beautiful ex-fishing village as it is now a beautiful tourist resort with some wonderful fish restaurants, again, well worth a visit.

As both of you, my readers, know, I now have to use a walking stick, due to a knackered right knee and an equally knackered left ankle. So I am out there the following day preparing myself mentally for that 61 metre jump when I fell down a six inch (150mm) kerb and, unbelievably, knackered my good left knee.

Fortunately I still had my crutches (never go anywhere

without them) in the car. Did I tell you we took my car? Well anyway we did, and we spent the following day having a look around the 'Appartement Temoin' a museum based upon a fifties apartment. Sadly most of the contents, furniture, etc., was all familiar to me, being a child of the forties. Then a trip out to where the American forces landed. One thing that I admired, and it had to be water based, was two fountains set in the harbour directed at one another.



Then load up with Saint Agur cheeses for me and wine for Freddy and back home to be severely reprimanded by Sandra for being so clumsy. I'm glad I only mentioned to her the first fall I had and never mentioned the second.

Hopefully, I will see you all at SPATEX 2018. Take care, Allen.

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The ISPE 2017 Awards

The ISPE Awards took place on Thursday 12th October as part of the 116th ISPE One-Day Seminar in Bourne End, Hertfordshire (with a couple of presentations being made at the November Seminar).

At the start of the awards, ISPE Vice-President, Colin Day, FISPE, who was acting as Chairman for the day in the absence of ISPE President, John Cheek, who had sent his apologies, said that only seven of the nineteen successful students who passed their ISPE exams in March were present, and they were each given their ISPE Technician certificate, together with an ISPE lapel badge.

Colin then introduced three special guests, Edward Campbell-Salmon, MISPE, from Plastica Ltd., Peter Adlington, MISPE, from Plastipack Ltd., and Patrick Thorpe, MISPE (now retired, but formerly from Certikin International) and said that the original plan had been to ask each of the guests to present one each of the three awards to the trophy winners during the afternoon. Unfortunately though, one of the winners was unable to be present so, firstly, Edward was asked to present the Gartside Cup to the 2017 Student of the Year, for the highest overall marks in the 2017 ISPE Exams, and the winner was Mark Daniels from Home Counties (Horsham).

Colin said that Patrick would have been presenting the Jim Johnson Filtration Award, but this award would now be presented at a later date, and he then asked Peter

Adlington to present the Peter Horne Memorial Cup, donated by Asher Pools, to the person who achieved the highest result in their Chemicals exam, and this was announced as Alistair Allen from Poolcare Services, in Cheshire.

Colin then moved onto ISPE Fellowships which he said were within the gift of the Council and were presented to selected ISPE Members for an outstanding contribution to the swimming pool industry, but to the Institute in particular. Colin said there were three Fellowships to present and he announced that the three recipients were, surprise, surprise, Edward Campbell-Salmon, Peter Adlington and Patrick Thorpe! All three were warmly congratulated and presented with a silver ISPE lapel badge and Fellow certificate.

At the November ISPE Seminar, in Clevedon, North Somerset, Colin Day, was again standing in for ISPE President John Cheek and, he announced a couple of surprise awards.



*Peter Adlington,
Edward Campbell-Salmon
and Patrick Thorpe -
Fellows of the ISPE*



Mark Daniels - The 'Student of the Year' with the Gartside Cup.



Colin With Dane Wilson and the replica Jim Johnson Filtration Shield



Alistair Allen with the Peter Home Memorial Cup

The Jim Johnson Filtration Shield may be awarded for the best Filtration examination paper, Technical Paper or presentation on the subject of Filtration. For 2017, it was awarded for an outstanding Filtration exam paper, and the recipient scored a very impressive 90% in his ISPE Filtration exam. The winner was Dane Wilson from UK Pool Store and he was presented with a replica of the Jim Johnson Filtration Shield and an ISPE lapel badge.

Colin then announced that he would be presenting a Fellowship to a worthy recipient who, he said, joined the Institute about seventeen years ago and was elevated to full Member in 2010. Since then he has written various articles for the ISPE Magazine, given presentations at ISPE seminars, and as part of the Institute Workshop programme at SPATEX. He has been an enormous help on the ISPE stand at SPATEX over the last few years, particularly since the move to Coventry, manning the stand, introducing workshops and helping with the set-up and breakdown, not just of the ISPE stand, but with some of the workshops too. In 2013 he started to help out on the 'tools' side of the ISPE Filtration Workshop, giving help, advice and practical demonstrations to many delegates over the last five years, and has made that role his own, having taken over from Ray Burt, which was never going to be an easy task. He joined the ISPE Council in 2014 bringing some well needed, young blood, relatively speaking, to

the table, and Colin said he was delighted to present a silver Fellow badge and Fellow certificate to Philip Barlow.



*A very surprised Fellow,
Philip Barlow.*

Introducing....

Back in October, after the AGM (and not part of the AGM business) the Institute Council co-opted three new members to Council (with their

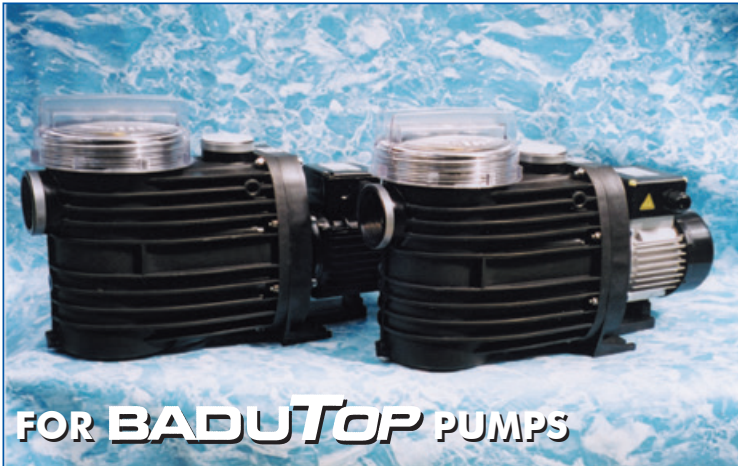
consent!) who will serve as co-opted Council members until the next AGM (date to be advised in October 2018) at which time (if they wish) they may seek formal election to serve as a Council member and Director of the ISPE.

The three “volunteers” are Bob Judd, MISPE, Graham Kneale, FISPE, and Jimmy Lamb, TnISPE(Cert.), who are all highly experienced, long-time ISPE members, and we are delighted to welcome them to assist on the Council.

We look forward to their continued contribution to the Institute, and for those who do not know these three ‘pillars’ of the pool and spa industry there will be a short introduction to each of them in the next ISPE Magazine (out in early April).

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Company Profile

Based on a Sponsored presentation at the 117th One-Day ISPE seminar on 23rd November, 2017 at the Walton Park Hotel, Clevedon, North Somerset.

Michael Cormacey, MISPE, initially gave a brisk overview of his company history and showed pictures of some of the more interesting projects undertaken by this long-standing design company, in 28 countries to date.

These projects included: Leisure pools in the Caribbean to the middle of the Sahara desert; Private pools in basements & on the third floor of an office; Health club pools right under a mainline railway station & a pool built close over the London tube line; 25 metre school pools in Surrey; 25 & 50 metre Olympic pools in Qatar; Hydrotherapy pools and a complete hydrotherapy clinic in Dorset; Pools in barns and pools in chapels; Refurbishment of old pools & upgrading outdated pool buildings to be energy efficient; Creating a new pool hall & re-creating an oaken building of the middle ages.

The company offers a complete design & consultation service for pools and pool building design, to private and commercial customers, health clubs, holiday parks, schools, developers and architects, who often ask AB onto the design team for their specialist knowledge of these specialist buildings.

Aqua-Blue has also designed for at least 25 pool companies over the last three decades and helped some fledgling pool installers to undertake projects which they may not have been able to tackle otherwise. In these situations Aqua-Blue is either introduced to the end-

user and work on their own heading, or they keep a low profile, working simply as the pool man's designer, and change the title blocks on surveys or drawings etc. to 'Bloggs Pools Ltd'.

The service encompasses initial advice and concept sketches, through to general arrangement drawings, specification, liaison through the tender phase (if appropriate) and support through to completion & hand-over of the pool, spa or building. Clients are usually glad to have had AB on board and the company continues to gain awards.

The second half of Michael's presentation concentrated on Aqua-Blue's specialist products supplied to the commercial pool trade, such as heavy-duty transfer grilles, and one-off items such as inlets and outlets for flumes, or bespoke suction grids ranging from 200 x 200 up to 2500 x 800 and tailor-made stainless steel fabrications, e.g. a one-off monsoon shower with LED lighting.

The subject of pool outlets lead seamlessly into the disturbing subject of bather entrapment and thence on to Aqua-Blue's latest innovation, designed to prevent these terrible accidents; **The Kormo-safe anti-entrapment outlet.**

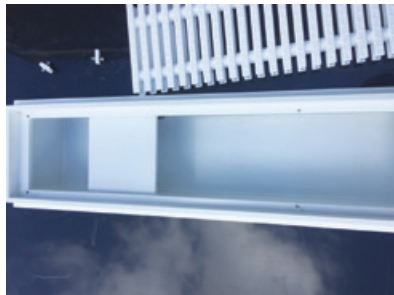
There has been much coverage in the ISPE Magazine and trade publications on this subject and Michael identified the main causes of accidents as:-

- Poor sump design

- Insufficient outlets or pump sizing
- Poor valve arrangement
- Sump covers not secured, damaged or left uninspected
- Larger than standard gaps in grids
- Clear plastic bags, pool toys, items of clothing being sucked onto and blocking one of the sumps
- Two children diving down onto the two outlets `for a laugh` and other risky pranks
- A bather diving down close to a sump and getting long hair entrapped in it (scissors will not cut hair effectively under water).
- A bather putting head underwater in a spa bath, where it's much easier to access the outlets
- A bather's clothing being sucked on to or caught on sump

- Excess bather load, poor lifeguarding or poorly trained staff
- Lack of safety information for bathers

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ISPE Filtration Workshop

The latest ISPE Filtration workshop was held back in November and whilst a more detailed report will appear in the next ISPE Magazine (early April) we would like to thank the following companies for their help and support in presenting this event:

Plastipack: Peter Adlington - for supplying the venue and help from staff, Pauline Ralf and Tim Fielder.

Plastica: Edward Campbell-Salmon and Pat Delaney – for supplying all the pipework, fittings & adhesive.

MSI: Bob Kent - for supplying 6 bags of Zeoclere & 25 packs of Jolly Gel.

CPC: Mark Ramsden - for supplying gift bags with chemical information.

SCP: Ian Pratt - for providing a 20" filter with MPV.

Certikin: Richard Way - for providing a 19" filter with MPV and sand media.

Pollet Pool Group: Jimmy Lamb - for providing a 20" filter with MPV and glass media.

Golden Coast: Jamie Adams - for funding the winner's Champagne.

Waterco: Tony Fisher & Erika Canon - for providing printed documents and supplying a 20" filter with MPV.

Huge thanks, too, to the presenters, Chris Carr & Phil Barlow, and to Kim Mumford for her assistance on the day and photos.

We are most grateful for this support and hope to present another ISPE Filtration Workshop in the Autumn of 2018. Please contact ross@ispe.co.uk for more details and to register your interest.

Next Issue of the ISPE Magazine

The next ISPE Magazine will be out in early April. Please send in your company or product profiles, articles and news by the end of February.

Letter from the Midlands

Retired ISPE Member John Taylor writes: *Dear Ross, Who remembers 'Algitox Minor/Major' - "The miracle Algae eliminator"?*

I found two containers of this banned substance in our garden shed, eight months ago, and decided to try it out as a weed killer.

The area treated was between a fence and a tarmac drive.

Eight months on, there is no sign of weeds or anything green - amazing!

Pity about the tarmac lifting!! Algitox really was very powerful, wasn't it?

Presumably it was banned due to the poisonous nature of the product.

Does any member know the facts?

The Algitox container measured 8cm x 5cm, weighed only 45 g and treated 36,000 litres (7,500 gallons).



Editor's note - Do you know the facts? Please email ross@ispe.co.uk and I'll pass comments to John and include in the next ISPE Magazine.

Insurance Quotes

I received our home insurance quote recently and on seeing a £50 increase, with a company we'd been with for six years, I telephoned them to see if they could do anything better. The £631 quoted was reduced to £327 for an identical policy.

On a roll, I then did the same with our dual car insurer and had the quote of £502.30 reduced by £68.51 to £433.79, just for asking.

Well worth a couple of (free) phone calls! Give it a try!

Ross Alcock - January 2018

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