



- *ISPE Exam Success*
- *ISPE Seminar*
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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!

Company Profile - Bluepools Limited

Bluepools Limited provides a completely unique design service that encompasses every single technical aspect of swimming pool design.

It is based in Salisbury, Wiltshire and operates throughout the United Kingdom. The company was established in the UK in 2013 by Will Witt B.Eng C.Eng M.I.C.E, a civil and structural engineer with over 50 years' experience of projects ranging from the very small to the largest in the world, including flood protection projects for the London Underground, The Darwin to Alice Springs railway in Australia, the giant Tengiz onshore oil field in Kazakhstan and many more.

In 2016 his daughter, Rebecca Witt, joined the company as co-director. With a background in 3D design in the film industry and a French Baccalaureate degree in advanced mathematics, chemistry and physics, she quickly became an integral part of the company and became a P.A.L.M Academy (Physical Activity and Leisure Management Academy Ltd.) trainer in April 2018.

Bluepools can take on the full structural engineering of a project, from foundations right up to the roof, no matter how complicated the building. Because of this, Bluepools is completely versatile and has worked on projects ranging from small scale private indoor pools, to multiple basement pools for property developers and commercial projects in hotels and swim schools.

Every project is designed in 3D in Google Sketchup. Will and Rebecca have found that when CAD

is used in the design of pools it is easy for the designer to overlook the real problems that the builder will have during construction. There is never really enough space in and around pools for all the equipment including particularly the air handling unit and all the associated ductwork. When 3D software is used, all the problems need to be solved at the design stage because if it cannot be drawn in 3D it cannot be built!

Bluepools also designs the ductwork for the air handling system as well as the pool pipework schematics. This minimises duct runs and therefore keeps running costs down. Many pool designers do not really understand just how important it is to ensure that there are no "dead" spots in the pool where the water is not constantly circulated. And the provision of pipework layouts makes for a much tidier pool plant room and makes it much easier for a plumber to follow pipework schematics.

It is also vitally important to ensure that the pool plant room is big enough to fit all the equipment associated with a pool in a way that is completely safe for the pool operation and maintenance. Bluepools are often called out to old pools that need renovating and the pool plant room is a "broom cupboard" which makes the whole installation unsafe, for the bathers as well as the pool operator.

During the construction phase of a project, Bluepools works with the client and their builders to make sure the pool is built to the designs and the whole facility is fit for purpose. They make sure that all the

equipment works as it should and that the equipment is all fully integrated.

Bluepools use the expertise of specialist suppliers such as Golden Coast for the Pool Control Panels, Heatstar for the air handling units and Certikin for filtration and disinfection equipment.

And if a client wants something really special Bluepools will do everything it can to deliver it!



Rebecca Witt and Will Witt

Front Cover Picture

This is a private indoor pool that was built in the parkland of the client's house. The whole building was designed by Bluepools Limited and incorporated a 13m by 6m pool with a built in spa pool, a gym that looks out onto the pool hall, a cinema room with a bar and a games room.

The pool itself was deck level, tiled with a submerged automatic floating cover and submerged colour change lights. The air handling is controlled by a Heatstar unit in the underground plant room and disinfection is controlled by a Certikin automatic dosing unit.

Bluepools Ltd.
www.bluepools.co.uk

(Thanks to Rebecca Witt for supplying these items)

Editorial

The ISPE Magazine can offer ISPE members and their companies some very useful publicity opportunities. This may be by way of a project profile, news about a new product or a celebration, or anything you think your fellow ISPE members may be interested to see. I am always surprised that my 'in box' isn't overflowing with submissions, but am delighted to be able to feature some of the excellent articles in this issue from Bluepools (opposite), London Swimming Pool Company and one of our retired Fellows, Bill Hales.

Please get in touch and share your news stories with the rest of the Institute. In the meantime, I hope the sun shines for all of you during the Summer. Keep busy!

Ross Alcock - June 2018.

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SPATEX 2019 - cue the NEW!

After such a successful Exhibition at the beginning of the year, which saw an 8.5 per cent increase in visitor numbers, the SPATEX team is re-grouping with the promise of returning in 2019 with an even bigger, better and stronger Show.



There is no shortage of new ideas to keep the Show fresh and relevant and the campaign is kicking off this month with a brand new website featuring new graphics and up-to-the minute information on the latest Show news and our exhibitors.

On the back of 22 years of successfully representing the wet leisure Industry, SPATEX Organiser Michele Bridle has been inundated with an unprecedented number of requests for larger stands. Only too happy to oblige, Michele has used her long-standing experience of running the Show to ingeniously restructure the floorplan to free up more space and allow a greater number of larger stands for companies such as Fairlocks, Superior Spas, Aqua Warehouse and Certikin. With over 60 companies already signed up and with some eight months still to go,

it's looking like 2019 will be a very impressive event indeed.

Michele says: "In 2018 we were rewarded with a fantastic cross-section of support from the wet leisure industry who backed us with heart and hard work to achieve an exceptional result. It brought people together and breathed new life into the industry and we aim to replicate that success in 2019 and stage an even bigger and better Show. Exhibition space is selling like hot cakes so if you're wanting a particular sized stand or position then now is the time to get in touch. Personally, I believe it is the opinion of our exhibitors that says the most so here's a reminder of what two of our exhibitors said about this year's event:

Gil Gingell - Darlly Europe Ltd: "SPATEX 2018 was in one word: EXCELLENT! Aside from the excellent organisation and communication to exhibitors and visitors, we were particularly impressed by the overall quality of the Show this year. It was like a small version of Piscine Lyon."



Richard Hart – Aqua Warehouse: "This was the best SPATEX ever! Not only were we

busy on the stand but the quality of the attendance was outstanding. I have never worked so hard on a stand in all my life. In fact, we were so busy I made a note, we need more staff for next year! We are now struggling to deal with all the enquiries. Not a bad problem to have!”

**Book your place
at SPATEX 2019:**

Tuesday January 29th to
Thursday January 31st 2019,
Ericsson Exhibition Hall,
The Ricoh Arena, Coventry.
For further information please call
Michele or Helen on
+44 (0) 1264 358558 or
email michele@spatex.co.uk;
helen@spatex.co.uk

Ramsgate Lido

“**Ramsgate Lido** survived 50 years post-war. Sadly, it succumbed to the same threats as most lidos of the day, down to climate change and weather conditions. But package holidays abroad, where the sunshine was guaranteed, also took a toll on patronage.” Quote from *Ramsgate Marina Pool* link.



Another theory goes back to its construction as described in *Thanetonline*. “It is said that the problem was the old design of the building and that the pool itself was actually set on ‘stilts’ – you could walk underneath it at low tide. As the

tide came in, the void was filled with seawater.”

“The dated building spec’ made this into a fatal design fault. Gradually the chalk below the lido began to erode, and as a result the foundations moved, causing the pool to crack. This was patched for years until repairs became impossible. It was also too expensive to replace.”



Whatever the reason, Ramsgate Lido, which opened in 1935, looked in a very sad state by 1999.

With thanks to John Dawes, FISPE.

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The ISPE Student Exams - Model Answers

The ISPE Exams took place in March and there was a varying level of results this year. For those of you not familiar with the exams, there are four subjects (Chemicals, Heating, Construction and Filtration) and each exam subject has two sections. Section A has five short questions each worth six marks. All questions should be attempted and concise accurate answers are expected. Section B has longer questions and here a more detailed answer should be given. The candidate should attempt two out of the three questions offered.

To help students sitting exams in the future we thought it could be helpful to give examples of the type of answers required for Section A, based on this year's exam. In some cases some alternative answers are shown. We are featuring Chemicals and Heating in this issue and will look at Construction and Filtration in the next issue.

Chemicals

Explain, briefly, what the difference is between 'physical' and 'chemical' treatment of swimming pool water.

Physical treatment is where something is done to the water such as filtration, heating, pumping, etc. Chemical treatment is when something is added to the water such as disinfection, pH adjustment, water balance or flocculation.

In a properly operated swimming pool, what range of the following would you expect to find? a) Total Alkalinity b) Calcium Hardness.

a) 100-150mg/l (ppm) as CaCO_3 b) 100-500mg/l (ppm) as CaCO_3

Note: These values are based on figures quoted in the ISPE Training Manual. Other publications quote different figures. These are also acceptable providing they are within a sensible/correct range.

Give an example of a) an oxidising and b) a non-oxidising pool water disinfectant. (Do not use trade names.)

a) Anything chlorine or bromine based acceptable i.e. sodium hypochlorite b) Organic biocides or silver/copper ions.

Stabilisation, sometimes called conditioning, is an optional procedure applied specifically to chlorine treated outdoor pools. How is stabilisation achieved?

By the addition of cyanuric acid at the correct rate, usually when the pool is first filled. Disinfectants with their own cyanuric acid source should then be used to ensure levels are maintained.

pH control is vitally important in pool water management for a number of reasons. List three of these reasons (single sentence answers).

1) To ensure that the disinfectant works correctly 2) To prevent corrosion or scale formation 3) To ensure bather comfort.

The most common mistake is just getting the information wrong, not understanding the question or mixing up answers. Examples as follows:

Mixing up physical and chemical and saying the addition of chlorine is physical treatment.

Quoting incorrect figures and not understanding the parameters, for instance, giving values of 7.2 – 7.4 for ideal alkalinity values (these are obviously pH values).

Mixing up what is oxidising and non-oxidising.

Not understanding what stabilisation is and being aware of cyanuric acid.

Not knowing how important pH is and what role it plays in chlorine efficiency or how it can affect other parts of a pool.

Heating

What is the highest form of heat loss from an uncovered pool and how is this affected by surface wind?

The highest form of heat loss is caused by evaporation from the pool water surface.

The stronger the surface wind the greater the evaporation from the pool water surface and the higher the associated heat loss.

A rectangular pool measures 11 by 5.5m with a sloping floor from 1m to 2m.

a) Calculate the volume of the pool in cubic metres.

b) Calculate the volume of water the pool holds in litres.

a) $\frac{11 \times 5.5 \times (1+2)}{2} = \frac{11 \times 5.5 \times 3}{2} = \frac{181.5}{2} = 90.75\text{m}^3$

b) $90.75 \times 1000 = 90750$ litres

Alternative but incorrect answers;

a) $11 \times 5.5 \times 1 + 2 = 62.5\text{m}^3$

b) 9075 litres (no working shown)

The metric equivalent of 100,000 Btu/hr is approximately:

a) 29kW

b) 340 kW

c) 3kW

d) 29 kW/hr

The answer is a) 29kW. It is important to show your working. In this case it would be: $100000/3412=29.3\text{kW}$

Why is a floating cover recommended for any heated swimming pool?

Which type of cover would you recommend for:-

a) A domestic outdoor pool?

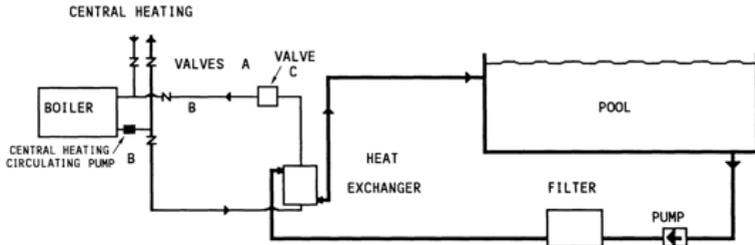
b) A commercial pool?

The greatest loss of heat from a heated pool (up to 65%) is through evaporation from the pool water surface.

The use of heat retention cover minimises evaporation and so will significantly reduce heat loss from the pool.

- a) Solar bubble cover
- b) A good quality 5mm foam insulating cover.

Briefly, sketch a plumbing layout showing the position of the filter, water pump, a heat exchanger and thermostat linked to a boiler.



See the next issue for more examples of model answers and for further details of the ISPE Home Study Course please email ross@ispe.co.uk or telephone the ISPE office on 01603 499959 for a full information pack.

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HOT TUB

The Swimming Pool at Windsor Castle – 1961–1962

Taken from “The Life and Tales of William Hales”

Gilliam's started to negotiate for the Windsor Castle contract back in 1961 and I knew that we were up against Rutherford Swimming Pools, I wasn't aware of any other companies, and the moment John Jenkins, our chief designer was told by Harold Gilliam, practically every other job in the drawing office was put on hold.

We eventually heard that we had got the job, it was clearly very hardly fought for by Harold Gilliam, and back then by Graham Rutherford's father, who I recall as a very nice old chap, and years later Graham and I would play a lot of golf together and, of course, serve on the ISPE council together.

Anyway, design after design was drawn up, along with some brilliant sketches by Jenks, and then “The President of the Landscape Architects, Mr Milner White” came into the picture and we were told that he would be taking over the design brief.

At this time the project was for an outdoor pool, and quite frankly I didn't think that his designs or sketches held a candle to John's, and I for one was rather disappointed at this turn of events, but it wasn't to stay like this for long.

With probably over a dozen designs having been drawn up to a very high standard, we suddenly got the news that it was now to be an indoor pool, something that Mr White wasn't going to get involved with, and also something that was not back then readily taken on by too many Architects in general. They

might well deal with the building but the pool was something else.

So it was back to us completely, as the pool was to go into the Orangery, in the Castle, and the shape of the area worked well with the simple rectangular pool that was required, but quite large, from memory it could have been about 50 feet long, and the width was the maximum that could have been constructed allowing for access along both sides by the castle walls.

I was on site when the shell was being constructed by ‘Cement Gun’ Co., run by Tony Wynn's father; it was he who first got me interested in structural engineering back in 1960. They constructed all our Gunite shells in those days, using the dry method, and with an ‘Aliva’ Gun. The hose burst twice on the day that I was there, sending out stone shrapnel all over the place. Fortunately no one was hurt badly, although a couple of chaps were hit. This was not unusual back then, especially when using the dry system, and it was a rather dusty process as well.

By this time, I was far more involved with design drawing for Diafilter Engineering, and was very much more involved with the mechanical services plant for the pool, than the pool itself.

I went to site a few times with Bob Penton, Diafilter's chief engineer, to make sure that all the pool fittings and pipework went into the right place and set correctly.

We found at times that it was a rather lengthy job just getting

admission into the castle, even though we had all the proper clearances and had been through the rigmarole of security checks a number of times. So, one day when Bob and I were going to site, he suddenly slowed down and turned right, into the castle grounds and drove through what I believe was Home Park, with some farm-like areas on the way.

“What on earth are you doing!!!” I said “It’s alright I was shown a quicker way into the castle the last time I came, which gets us up by the pool site”, said Bob, quite casually, so on we went with me expecting a troop of SAS men to jump out at any moment. But no, and we ended up right by the castle walls, with a set of stone steps nearby running up into the building, which we then started to climb, by now I was beginning to feel quite concerned, but Bob clearly knew just where he was going. Up the steps and into the castle we went, and along a corridor to the other side of the castle, and then along a passage and back across eventually arriving at a set of grand steps running down into the Orangery, saving considerable time getting in and out.

I used the same route myself another three times when I went after that, but always with a little

trepidation. That particular access, off the road onto the grounds, no longer shows on any map. Bob later told me that he had been shown that way in by one of the members of staff, who would be long gone by now.

One of the problems we had which had to be overcome was the shortage of power available in our plant room, just enough electric capacity to run the pumps, a small Bastian and Alan electrode boiler with a heat exchanger, and a heat pump.

The first ‘Laars’ Gas fired pool boiler was also used, brought into the country by ‘Lt Col William McBlain Stephen’ (Bill Stephen) who went on to set up ‘Swimquip’ back in the early 1960s. Harold Gilliam managed to persuade Bill to let him have the first Laars by telling him just who it was going to as a client.

The instructions for the Laars were not too clear and it looked as though we needed to change the gas jets to work with bottled gas as there was no gas supply available near our plant room. So I set about changing the jets, all supplied with the boiler.

And then having set it up outside by our demonstration pool, I proceeded to light it up, and it wouldn’t start!!!, so I opened up the front, which was large enough to



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crawl into, and started to use the internal start up controls. The instruction said “put a match to it” so I did and the whole thing ignited with my head still inside it. I then fell backwards out of the boiler, which was quite happily firing off. And apart from burnt hair and eyebrows and a few bruises I was okay, and all that I suffered from was a little shock, and my hair never came back.

We then found out after a phone call to the manufactures that the jets already in it were already set up for bottle gas, they just called it by a different name and I hadn't needed to change them at all, so the rule is to check first and allow for the fact that the USA and the UK are two countries divided by the same language.

The last heating unit which together with the other two might have just given us enough BTU's to

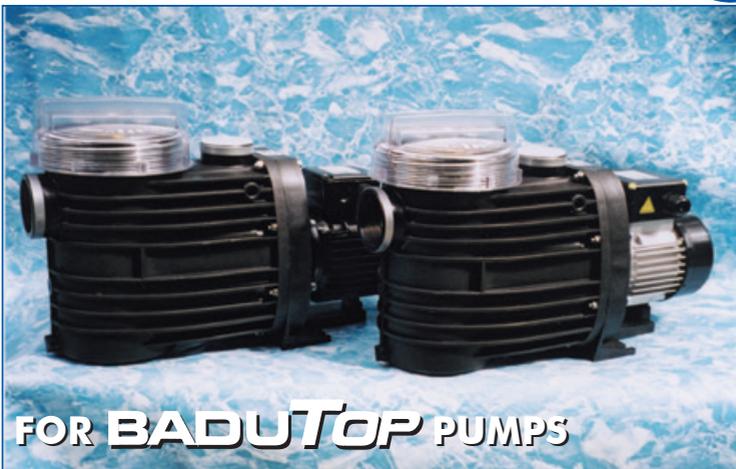
heat the pool, I was told at the time, was also a first for a swimming pool in the UK, and that was a water-to-water heat pump, we never had any complaints so I guess that altogether they must have done the job.

On my last visit to the castle I was testing the various pieces of plant when I heard a little commotion going on in the pool area, and my name being called, so I came away from the plant room area, and was a little shocked. Fortunately, I had been briefed should anyone important come onto site, although we had so many important clients I wasn't actually totally out of the loop back then.

But on this occasion I was a little bit on the back foot, the person that I was told would not be coming onto the site, suddenly, had!! “Her Majesty the Queen” had come down the same set of steps leading from

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the royal apartments that we now used to gain access to the pool site. She was accompanied by HRH Princess Margaret; two small children who were running around and playing just like small children do, one of them being a very young Prince Andrew, and one of Her Majesty's ladies in waiting.

The Queen had started asking the men what was happening. We had about twelve chaps on site that day, which was one of the hottest days that summer and the room was probably over 100 degrees and very humid. Anyway, the men had been calling me and pointing me out as the senior person on site and the only one from the office about at the time, I was only just 20 years old at the time.

So I stepped forward, did my bow, said the right words and waited to be spoken too. Her Majesty put me at my ease very quickly, and like so many, my immediate thought, apart from doing my best to hold my nerves together, was just how slight she is. You do expect that someone with a personality like hers would be much larger.

Anyway, she wanted to know just what was happening with the pool, and was particularly interested in the equipment that was going in, some of which was in full view as the

plant room was so small we could not get it all in. The Laars gas unit was outside on the landing in full sight, although it could not be seen from the pool area.

After a short while HRH Princess Margaret started to get a little agitated, as she wanted to go for a pre-lunch gin and tonic, but her Majesty made it quite clear that a G&T could wait, as she wanted to know exactly what was going on, and then listened to my description of all that was happening, and what would be, as the project was nearing completion with really only the commissioning to be arranged.

I thought then, that, that was it, especially as HRH was now getting even more agitated, when Her Majesty suddenly said "Your chaps must be parched in this heat and surely they could do with some refreshments." I replied "Yes Ma'am I am sure that they could." (There is some confusion these days as to the correct pronunciation, but there wasn't back in 1962.)

The lady in waiting went off and organised orange juice and lemonade for me and my chaps, which was truly appreciated on that very hot day which had proved to be a day that I am unlikely to forget.

Her Majesty having waited quite patiently for the drinks to arrive,



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The advertisement features a photograph of a swimmer in motion underwater, with bubbles around them. The text is overlaid on the left side of the image. At the bottom, there is a dark grey bar containing contact information and the company name.

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then thanked me for my explanation and went back up the stairs, and no doubt HRH The Princess Margaret had her slightly late G&T. I could have done with one too during that little episode in my life!

In 2012, I wrote to the Queen wishing her well with her Diamond Jubilee and asking if it was alright to put this little story into my life story book, and on the 8th November 2012 I received a nice letter back from the Palace, thanking me for my good wishes and thanking me for the kind reminder of the work in the Orangery.

The project was completed quite successfully and we had no problems later, and then a short while after, Gilliam's received The Royal Warrant which opened up doors all over the world, and that experience stood me in good stead from then on. I never had any problems dealing with anybody after that meeting with the 'Queen', and what was important to me was 'not falling flat on my face'.

William Beresford-Hales. Hon FISPE
– May 2018

Dates for your Diary

The 119th One-Day Seminar
Thursday 18th October
Near Hemel Hempstead, Herts.

The 120th One-Day Seminar
Thursday 22nd November
Clevedon, North Somerset

Programmes will be sent to all members about six weeks prior to each event and will be available to download from the ISPE website.

ISPE Exam Success

Congratulations to those students listed below who passed their ISPE exams in March 2018 and who now become Certified Technicians of the ISPE:

Victor Borley
Lee Craig
Darren Edwards
Shane Gray
Jordan Henry
Charlie King
Talia McArthur
Blair McGrath
Simon Potts
Ged Storpirstis

We hope to see as many of these successful ISPE Technicians as possible, on October 18th for the 2018 ISPE Awards, as part of the 119th One-Day Seminar. More details soon.

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Jolly Gel cleans up in Thailand

Pool King Inter Co Ltd is a Thailand based importer of pool and spa equipment which has been importing Jolly Gel pool flocculent from MSI for several years. It all started a few years ago when MSI sent the Managing Director, Mrs Rasinee, a sample box of Jolly Gel and explained how well it treats discoloured water. At first she was sceptical that such a small product would be able to turn a deep discolouration into sparkling water but she saw the potential for the company to sell the best product and become an exclusive supplier with the aim of promoting Jolly Gel across Thailand. Mrs Rasinee said, “My first experience of using Jolly Gel was with a prestigious Bangkok pool builder which had just completed a very large project in Bangkok. They filled the

55,000 gallon pool directly from the main city water supply. The property owner had a VIP customer coming to inspect the house the following evening and naturally was expecting the pool to look its best. On visiting the pool site, I saw that the water was heavily discoloured. With my company’s reputation on the line, I placed some Jolly Gel cubes into the strainer pump at 4pm and left the filter system on overnight. The next morning I couldn’t believe it – the water was sparkling blue and had only thin dregs at the bottom of the pool. Jolly Gel had worked and saved us from an embarrassing situation. Since then we have been selling Jolly Gel throughout South East Asia.”



Certikin is now including its UV promotional leaflet in each Jolly Gel carton to assist your sales of this brilliant, well-proven product.

WHAT A KNOCK-OUT!

When Gary Betton and his family 'inherited' a lovely kidney shaped outdoor pool with their property, they knew the pool water would need care to keep it sparkling and inviting for their weekly swim and the occasional BBQ pool party for their friends.

What they had not bargained on was a two year battle to find a product that would eliminate high levels of phosphate in the pool but that is exactly what happened until they discovered the miracle Jolly Gel.

Gary explained, "The high phosphate problem became so bad that we hardly used the pool as the water was always green and uninviting."

The family was literally pouring money down the drain as they tried different treatments including £200 per month on phosphate removers which did not assist. They even found themselves in a complex cycle of trialling chemicals, and taking water samples and delivering them for inspection to a pool specialist. And if that wasn't enough, twice a week they had to vacuum the pool and brush the sides of the pool. They were spending half a day a week on pool maintenance and there seemed no end to the problem.

In desperation, Gary was offered Jolly Gel pool flocculent. "Having had poor results in the past, I had little hope of finding a solution but I had nothing to lose, so I gave it a go. I used one Jolly Gel cube and after just 12 hours there was a noticeable difference in water clarity and things kept on improving, so much so, that within 48 hours the pool was sparkling clean and has remained so. After struggling for two years with phosphate in the water, Jolly Gel cleared it up in just one dose. The pool is as clear as it could be and as clear as I have ever seen it!"



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Wilson's Wanderings

Recently I was fortunate enough to work in Corunna (or A Coruña [Castilian: La Coruña] dependent on your choice of translation) in Spain. I say fortunate as it was just an accident inspection and nothing too tedious, the whole thing being concluded within a morning. This left me with in excess of a day before my flight home and allowed me to explore a picturesque Spanish city (or town, I'm not sure which it is). I just wish these tight fisted companies would hire decent sized cars for me to use instead of these budget things that I have to be shoe-horned into. It did have an impressive church (or cathedral, that I guess would make it a city) that I spent a cheerful couple of hours meandering around and sheltering from an intolerant sun.



I personally did not approve of LED 'candles' taking the place of authentic wax candles, but whatever! That's progress and, of course, fireproof. However, the smallest change I had was two Euros and this lit up the display like a Christmas tree!



Following this, and exhausted from promenading around the church/cathedral or abbey, and continuing to seek refuge from the Spanish sun, I ventured, completely out of character, into a local bar and partook of a well-earned San Miguel. Whilst here, my thoughts went back to my school days and poetry and how we could, well I could, all remember one poem that we were brain washed and force fed with, be it: Daffodils by Wordsworth, Tewkesbury Road by Masefield or the evocative Charge of the Light Brigade by Tennyson. I imagine nowadays it would be

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something like, 'Yes, I'll marry you' by Pam Ayres!

A poster on the wall of the bar had triggered my thoughts. It commemorated the battle of Corunna (or La Coruña) back in 1809 and this rekindled a memorable poem in my head. The poem that invaded my thoughts was 'The Burial of Sir John Moore after Corunna' by Charles Wolfe and the reason for this thought incursion was that I was here in Corunna (or La Coruña). This was a poem that sixty years later I could still recite the first three verses of, stop me next time we meet and try me if you don't believe me!

Although this battle was rejoiced as a victory, it was, in reality, like Dunkirk, a glorious defeat. The French pursued the British army across Northern Spain in the depths of Winter. The Brits repelling the vastly numerically superior French forces with hard-fought rear-guard actions. Arriving at Corunna (or La Coruña) in January 1809, they found that their rescue ships had yet to reach them. Finally the fleet arrived a couple of days later, and whilst the British were in the midst of embarking, the French forces once more caught up with them. They forced the British to fight another battle before being able to depart for England and it was during this battle that Sir John Moore was fatally injured by shrapnel from a cannon ball.

My interest in Sir John Moore had been rekindled many years before, whilst working in a Glasgow pool, where there is a splendid statue of him, in Glasgow, obviously, not in the pool!

I visited the site of his grave and the memorial was well maintained and worth a visit.



'The Burial of Sir John Moore after Corunna' by Charles Wolfe

Not a drum was heard, not a funeral note,
As his corse¹ to the rampart we hurried;
Not a soldier discharged his farewell shot
O'er the grave where our hero we buried.

We buried him darkly at dead of night,
The sods with our bayonets turning;
By the struggling moonbeam's misty light
And the lantern dimly burning.

No useless coffin enclosed his breast,
Nor in sheet nor in shroud we wound him,
But he lay like a warrior taking his rest
With his martial cloak around him.

(and so it goes on for another five verses)

¹ Corse an archaic word for corpse

(This is what we want, a bit of culture in this magazine!)

To even things up and for all you Philistines out there, I am also including a snippet from Pam Ayres. This was from a birthday present I received recently (the full poem is available on-line).

Yes, I'll Marry You

By Pam Ayres

Yes, I'll marry you, my dear, and here's
the reason why; So I can push you out of
bed when the baby starts to cry.....

Allen Wilson, FISPE

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Company News

London Swimming Pool Company Launches Design Hub for Professionals Working on Pool Projects

London Swimming Pool Company (LSPC) has launched a **Pool & Spa Design Hub** which makes it easier for professionals involved with luxury pool projects to access a wealth of information from a single source.

Creating a luxury pool requires collaboration between the pool designer, architects, interior designers, innovative manufacturers, main contractors and the craftsmanship of the pool builder and trades. Obtaining high-quality information on design, installation and market-leading products is the starting point of a successful pool project and the Design Hub is the gateway to finding key information and potential partners quickly.

The Design Hub enables architects, interior designers and main contractors to obtain information on options and considerations for pools, trends and leading-edge products that transform the ambience and the performance of a pool.

Currently there are 14 product sections covering air handling systems, counter-current units, pool covers, heating, finishes, pool lighting, moving floors, poolside equipment, pumps, stainless steel pools, underwater windows, water features, water treatment and spas. Product overviews are complemented with downloadable technical sheets, brochures and, in some instances, videos. The Design Hub also provides helpful articles, and promotes the Pool Workshop for architects.

LSPC worked with Heatstar, Certikin, Ocea, Bowman, Astral Pool, Cranbourne Stone, Senlac Stone, Eva Optic, Twinscape, Berndorf Bäderbau, Pollet Pool Group, Suez, Staxil, Holland Aqua Sight, AQA, GMT Spas and Fairlocks Pool Products to produce the Design Hub.

LSPC's Managing Director, Jamie Smith said, "We're delighted with the support we received from these market leaders and would like to thank them for enabling us to create a comprehensive and informative resource. Designing and building a pool involves the imagination of the client, the expertise of the pool designers and many companies to provide high-quality equipment and technical support. It's a true collaboration which results in a pool that delights the client."

Certikin's Marketing Manager, Cath Saunders said, "The Design Hub is extremely informative and professionally put together; it will be a real asset to anyone working on a pool project. We are proud to be part of it."

Jamie Smith concluded, "The first phase of the Design Hub focuses on swimming pools and we hope that it will be a useful tool for professionals who want to get an insight into the latest options for pools. We will continue to add more pool products from leading manufacturers."

*Visit the LSPC website
www.londonswimmingpools.com
and click "Architects".*

We are grateful to Jimmy Lamb, TnISPE(Cert.) who provided the following summary from his presentations at the 116th One-Day Seminar in October 2017.

Salt Electrolysis

The main objective of running a pool with salt is to produce chlorine. This is achieved when the dissolved salt (sodium chloride) passed through an electrolysis unit is converted into sodium hypochlorite (liquid chlorine). One of the drawbacks of such a system is that the amount of salt required can be anything between 3 – 5 grams per litre of water. This brings a lot of chloride into the water. Once chloride levels exceed 600mg/l there is a high risk of corrosion even to fixtures and fittings manufactured in stainless steel 316L. A quick rule of thumb method of testing the chloride level is to divide the TDS (Total Dissolved Solids) by 2 so, for example, TDS = 1,200mg/l ÷ 2 = 600mg/l of chloride. Of course, an accurate chloride test kit would be better.

There are two types of electrolysis cell; Monopolar and Bi-Polar. Monopolar cells have the advantage of an electrical current running through each of the electrode within the cell. This method uses a higher amperage, but low voltage. The Bi-Polar cells have a single current that has to pass across each electrode. This requires a higher voltage and lower amps. In harder water areas it is

likely that calcium scale will form on the electrodes, this means the electrical current has to pass through this coating, resulting in a reduced efficacy. With the Bi-Polar version, the current has to pass through several layers of calcium scale and the power will drop with every pass, whereas with the Monopolar version, the current only has to pass through the scale once.

To help reduce the amount of calcium scale formation, the polarity of the current is reversed on a regular basis. The reversal of the current repels scale that has recently formed. In harder water areas the period between the reversal of the polarity will need to be reduced. As a result, each time the polarity is reversed, part of the protective coating on the electrodes will be removed. It follows, therefore, that a electrolysis cell will need to be replaced more often in a hard water than in a soft water area.

Active Oxygen

Active Oxygen offers a domestic pool owner an effective alternative to chlorine or bromine. This method of pool water disinfection should never be considered for use in any commercial pool.

It is usually available in two forms; a hydrogen peroxide based liquid dosed automatically or the dry version, Potassium Monopersulphate in the form of a granule or tablet dosed by hand.



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European-based swimming pool water treatment specialists, Bayrol, were the pioneers of such a treatment system and readers may be more familiar with the brand names, 'Bayrosoft' (based on Hydrogen Peroxide) and/or 'Soft & Easy' (based on Potassium Monopersulphate). Although both types have a higher electrochemical oxidation potential compared to chlorine, they are less stable in the water. This means the physical water treatment system of the pool must have good hydraulics, circulation, filtration and effective backwashing.

Flocculation is also very important when treating a pool with active oxygen. The liquid version is typically dosed on a weekly basis, usually on a Friday, to establish a minimum residual in the water measured with a simple test strip, that will get consumed over the period of 7 days. A good automatic dosing controller will also take into account the temperature of the water and, if needs be, make additional doses to counter fluctuations in temperature. The dry version is simply broadcast directly into the pool by hand from the sachet in which it is supplied. It is important to test the level of oxygen in the water using a DPD No. 4 Pool Tester after an hour, but no more than two hours after the dose, to ensure a minimum level has been achieved.

Please note, a consumer licence is now required by a domestic end user to purchase Hydrogen Peroxide liquid supplied at a strength of over 12%. The licence is also required for a

domestic customer to hold stock of the liquid at their residential property. This licence is available from the Home Office and will dictate what volume of Hydrogen Peroxide the holder can purchase in any one transaction. It does not apply for transactions made business to business. The same law will apply to Sulphuric Acid with a strength above 15% often used for pH correction as from the 1st July 2018.

Chlorine Dioxide

In pools we are not working in sterile conditions, bacteria will always be present and so we add an oxidiser (usually chlorine) to keep the number under control. A bacteria will endeavour to reach a surface in the pool to stick to and excrete an alginate around itself for protection against the oxidiser. Once protected, other bacteria will move in and bacteria will reproduce very quickly. This is the process of the formation of 'biofilm'. A biofilm will harbour all manner of bacteria and viruses such as *Pseudomonas Aeruginosa*, *Legionella* and *Amoebae*. *Legionella* lives inside the *Amoebae* that in turn is protected within the biofilm. No Biofilm, no *Amoebae*, no *Legionella*!

A surface for biofilm to grow could be the pool walls, floor, pipework, cover, equipment such as floats and inflatables or anything else that the water is in contact with. The media contained in a pool filter will represent well over 90% of the total surface area that the water is in contact with. Contaminated filters are more often than not the

root cause of water quality problems. Where surfaces are exposed, we can limit the formation of biofilm by brushing the pool walls and floor but, other areas such as the pipework and filter media need other means of treatment. By shock dosing the pool with chlorine an amount of biofilm will be oxidised but, by far the best method of biofilm removal is with the application of chlorine dioxide.

As a liquid, chlorine will oxidise the outer layers of an established biofilm. Even with chlorine levels as high as 50mg/l we cannot be sure that all the biofilm will be removed plus, harmful chlorine by-products will be produced such as Trichloramine. As chlorine dioxide is a soluble gas it will penetrate a biofilm so, we stand a much better chance of

complete removal. Chlorine dioxide is 100 times more effective at removing biofilm than chlorine. A solution can be made up and left to soak in a contaminated sand filter. The solution can be used to clean floats, inflatables, pool surrounds and changing rooms etc.

Chlorine Dioxide however, is not a replacement oxidiser and should only be used as a regular cleaning maintenance product in the fight against biofilm formation.

ISPE Logo Use

We would like to remind all members that **the ISPE logo may not be used** by any members, and this includes on letterheads, business cards, in adverts, websites or on vehicles. Thank you for your co-operation.

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Mile of Words'

We are grateful to ISPE Fellow, John Dawes, for sharing this item with the ISPE Magazine readers. John keeps an eye out for pool-related oddities and items of interest, a little out of the ordinary.



The picture above shows Tanya Shadrick 'writer-in-residence' at work on her *Wild Patience* Scrolls beside Pells Pool, Lewes, producing a 'Mile of Words' longhand for exhibition in the 2017 lido season. Pells Pool (7 lanes x 50 yards length) is the oldest lido freshwater swimming pool in Britain (1860). Further information may be obtained at: 'www.pellspool.org.uk'

If you want to know more and wonder why Tanya the creative writer is scrolling *Wild Patience*, John emailed to ask her its meaning, she replied:

The title of the work comes from an Adrienne Rich poem about a woman in mid-life (as are many of Pells Pool regular weekday pool-goers, including Shadrick herself). Titled '*Integrity*', the poem begins:

'A wild patience has taken me this far/as if I had to bring to shore/a boat with a spasmodic outboard motor.'

"That idea has absorbed me ever since I learned to swim three years ago, in response to a near-death experience and its painful aftermath", Shadrick says, "I am moved by the idea of our working often in life with imperfect equipment while still steering ourselves towards health and meaning."



"The many swimmers I have connected with at Pells Pool and through social media seem to share this joy and endeavour: stories of great soulfulness are being trusted to me daily, and they all go into the Scrolls, which combine here and now descriptions of pool-life with my own reading and others' experiences."

With thanks to John Dawes. Have any ISPE members seen Tanya at work or added to her inspiration? Email ross@ispe.co.uk to tell us.

A Personal Reflection of Trevor Baylis

Trevor Graham Baylis OBE, CBE – 13th May 1937 – 5th March 2018

I first met Trevor in 1962, whilst I was still working at “Gilliam Swimming Pools Ltd”. He had just started working at Purley Pools as a Salesman, and John Glazier was the M.D. there.

He was clearly quite a character, and right from the start came over as someone just a little bit different, rather quirky and full of himself, but not in an unpleasant way.

He could be very funny, and he had a few sayings that have stuck over the last 58 years. Such as saying “Sorry you lost your temper” when leaving a conversation, “Cod’s Head” when something had gone rather wrong, “Don’t get lost” when someone was leaving, and many others, many being taken aback by this.

Trevor suffered from a Butterfly mind, flitting from one thing or idea to another and I was asked to spend some time working with him in about 1964, by which time I was the chief design draftsman at Purley Pools.

It was obvious that some of his scatterbrain ideas were actually very good, but he wasn’t ever going to record them, so it fell to me to watch him and record them for him. This sounds easy but as he could on occasions come up with as many as 10 ideas in a day, picking out the ones that could become commercial was certainly not easy.

To start with one of the problems Trevor encountered was that the owner of the company, Ronny Durrell, also owned ‘Globe Warf Timber’ company in the East End of London, and his main business involved very large amounts of timber. Trevor, being an engineer, was constantly coming up with ideas that involved quite a lot of steel as this was more often than not the most effective material structurally. We had to make

up a number of different pool structures before Ronny eventually agreed that Trevor was right and the latest Purley Pool wall structure was born.

But, not before an interesting little event took place, in about spring 1965, and we had just constructed one of the new free standing 4-foot deep, timber with steel, wall structure pools, as a demonstration for the gunvor on the office site at Purley. He was coming down to view it and if he was happy, one of his trucks was going to come down the same day and take it away, as he had given it to a friend.

The pool was about 30’ long and 15’ wide and full of water, so quite a lot of water, and it had to be empty so that the chaps from Globe Wharf could dismantle it and take it away.

No problem, until it was becoming obvious that Ronny, as usual, was going to be late, and he eventually arrived just before we would normally all have adjourned to The Purley Arms for our lunch time libation.

I was getting worried that we may miss our lunch. But Trev said “No problem, I’ve got the answer, I know what to do.” and before you could say “Jack Robinson” he had rushed over to one of the corners of the pool nearest to the road (about 30 feet below us) and started to knock out the corner pins.

Within a few seconds about 11,000 gallons of pool water was rushing down the slope and onto the Eastbourne Road, about 100 yards from the railway bridge in the centre of Purley. Back then all the shops closed at lunch time and there was very little traffic about, none at that point in either direction and no pedestrians in sight. Trevor told me he had checked this whilst I was having a fit of apoplexy on the other side of the pool.

The 'Tsunami' went straight across the road and a wall of water roared towards Purley crossroads about 3 foot high, but disappeared within a few seconds, in fact by the time it reached the bridge it was hardly more than a heavy downpour of rain in effect.

We arrived for lunch just a little bit late, leaving behind us a couple of dumbstruck men from Globe Wharf. Nobody within 'wetshot' (made up word) ever mentioned it or even noticed it, and I did ask the local shopkeepers who we knew well at the time. And now the reason that Trevor came up with this solution...

Some time before he had been at an exhibition in London and on the last day he found himself on his own. He had a hot date that evening and wanted to get away, but the demonstration pool was still full of water, and he could not take the pool apart so that the transport team could take it back to Purley.

So he thinks quite quickly, notes that no-one is about, and as he is a few floors up and a convenient, hardly ever used, lift shaft is open, he gets out his jack knife and cuts a hole in the plastic liner and lets all the water, about 8,000 gallons, down the lift shaft into the basement, which he says he knew had its own drainage system, in case of flooding, saving him hours of waiting.

This of course did not go totally unnoticed and caused quite a furore and a complaint back to John Glazier, Trevor's boss, and Trevor had to make one of the very few abject apologies in his life to the foreman and his team (but no one was hurt doing this).

A few years later, Trevor was coming up with all sorts of ideas that could maybe make him a fortune, amongst them, the idea of a diving tank that stunts could be performed in. He got to the point that he had designed it in his mind, but could not produce it himself as a proper drawing.

He asked me if I would draw it up for

him so that he could get it made. I was quite happy doing that for him, but when John Glazier found out that I was doing some of the drawings in company time, he made it clear that he was quite happy with the drawings being done in the office, but it would have to be in our own time. By this time, they were all working drawings, as he had got past the design idea stage.

The funny thing was that most of the 'drinking team' including John Glazier tended to stay for a while to watch as the design progressed.

As I often mentioned to Trevor later, "I didn't even get a sweet sherry for it" or a bottle of sweet stout, both drinks that Trevor drank back then. Not that he was ever much of a drinker.

The tank was eventually constructed and was used on a number of occasions on TV, "The David Nixon Show" in particular, when Peter Cook and Dudley Moore did an escape from a submerged car scene.

All through the 1970s and 1980s he was a great help to me when I was working for myself and needing help regarding structural calculations on a number of projects.

He had trained as a structural and mining engineer some years before, and I visited him dozens of times at 'The Haven' on 'Eel Pie Island' and although he never got involved with the ISPE construction study course book, what I learned from him was invaluable, when I started to work on it a few years later. So he did eventually pay me back in kind.

I went to see him a few times when he was recovering from 'Crohn's Disease' but he would always insist on getting his books out and sorting out whatever my questions happened to be.

One of the projects that he came up with, which was about twenty years ahead of its time, and one that we worked on together was an automatic

testing and dosing pH and Chlorine control system, and one that he wished had been included in the stories on “This is Your Life, Trevor Baylis” on TV.

Trevor had been working on the idea for some time and I helped him set up the test rig in his R&D shed just below one of the railway arches. A considerable amount of wiring and piping and a number of items borrowed from other bits of equipment, including peristaltic pumps and numerous light sensors.

It looked a little ‘Heath Robinson’ well, I guess it was, but it was all ready for the first test, and TGB was about to throw the switch for the first time.

Health and Safety was an anathema to Trevor, and he could be quite dangerous to work with. I arrived just in time to see it all fired up. That comment turned out to be very apt. The wires, over ten of them, kept on slipping out of the junction box, so Trevor asked me to hold the box steady and try to keep the cables from slipping out, whilst he started it up. TGB’s idea of a fuse was a six-inch nail, as it was unlikely to blow.

The cable that started the fire was fortunately one of the few that he had fixed properly and not one of the ones that I was holding in position. When the cable started to glow the fuse held, and I stood firm until the cable burst into flames like a fire cracker, running around the shed wall towards me, but when the other cables started to burst into flames I

looked at TGB. He just said “Cod’s Head, don’t just stand there, drop the *****y thing”, or something similar!

We did eventually get it working without it exploding, and it checked the water balance and automatically dosed it to an accurate level, which we could test with a normal comparator test kit.

This was not considered to be important enough for our timber merchant, so it was shelved, and I believe was not repeated for many years when ‘The Magic Box Company’ put a unit on the market about twenty years later.

Trevor was a born showman, always out to impress and one of his memorable stunts was to dive off the office roof, about 10-foot high, into our demonstration pool which was about 3-foot deep. It was more of a belly flop than a dive, but then he was a stunt man.

We stayed as friends and I went to many of his birthday bashes on the Island when he used to often have the Temperance Seven playing down on the veranda, and we used to chat on the phone regularly, a few times each year. He came to most of our special occasions, including our children’s weddings over the years, and the last time I spoke with him was only a few weeks before he died, and he was clearly not well then, but his usual overwhelming, if somewhat zany sense of humour, still showed through.

Good-bye Trevor. (As he knew me) William Beresford-Hales (Bill for short).



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Cycling for a Good Cause

ISPE Member Peter Evans sent the following:

One more year and another cycling challenge! Raising money for an amazing charity, The British Heart Foundation. Of course, each year has to be more difficult than the last, or it wouldn't be a challenge! So, this year I am cycling from London to Paris!!!

It's only 260 miles, or 400 Km, four consecutive days on a bike. So from the 25th to 28th July I may be slower to reply to emails...

Please try to support me in this challenge. This year is different as I have to reach 80% of my target donations in the next few weeks, due to the organisation required to support this challenge, so I am hoping you can support me early.

As always, thank you for your past donations and I hope you can help one more time before I retire...

Donating on-line is simple, just follow the link below:

www.justgiving.com/fundraising/peter-evans29

Peter Evans, Regional Manager UK and Ireland - Pollet Water Group
peter.evans@pwg.be; www.pwg.be

The General Data Protection Regulation - May 2018 (GDPR)

Many of you will have received dozens of emails in recent weeks in the run-up to the new regulation coming into force.

One or two members, seeking even more emails, have asked why the ISPE have not emailed members about this. The simple

answer is that the ISPE is exempt from this regulation because the ISPE is a not-for-profit, membership organisation.

Those companies who are affected have all been busy sending emails to those on their contact list and it's interesting to see how some have got it wrong. With the new regulation, the recipient has to take positive action **to remain on** a contact list and it is not, apparently, sufficient for the company seeking permission, to simply say, "if you wish to continue to receive communications from us, do nothing...".

Whilst the ISPE does not have to issue all members and others with such an email, the Institute is not exempt from keeping members' details safe and secure and we will continue to monitor our safety procedures accordingly, whilst adding that no private details are ever passed to any third party. At the same time, if we do not have your email address, please email ross@ispe.co.uk so we can contact you, if necessary.

ISPE Weekend Conference?

The ISPE Council are considering holding an ISPE weekend conference, possibly in October 2019.

This could include a number of presentations over the two days, a social gathering on the middle evening and various product or company promotion opportunities for participating companies who may take a table to demonstrate or

show specific products or services.

We would be pleased to hear members' views on the following:
Would you attend such an event?
Where would you like it to be held?
What sort of subjects would you like to see presented?
Any other comments?

If there is sufficient interest and response from members the Council will look into this further. Failing that, it may be preferable to simply present a one-day, midweek, conference, similar to the normal ISPE Seminars, but let us have your views, please.

SPATEX 2019 and ISPE Seminars

The Institute is once again delighted to have been asked to plan a programme of technical workshops for the three days of SPATEX 2019 (Tuesday 29th-Thursday 31st January, at the Ricoh Arena, Coventry, West Midlands).

We would be very pleased to hear what you would like to see presented at SPATEX and, in addition, at the ISPE Seminars. Please email ross@ispe.co.uk with your suggestions (offers to speak are very welcome too!).

Pool Safety Records USA

According to the Association of Pool & Spa Professionals (APSP), there are 10.4 million residential and 309,000 public swimming pools in the United States. The Consumer Product Safety Commission (CPSC), an agency independent of the US government, states that despite the numbers being down 11% nationwide since 2010, "Between 2013 and 2015, an estimated 5,600 children under 15

years old were treated each year in hospital emergency rooms for non-fatal drownings in pools or spas." *(With thanks to John Dawes, FISPE.)*

The ISPE Filtration Workshop

The next ISPE Filtration Workshop will be held in East Sussex (to be confirmed) on Thursday 8th November.

This is an excellent day for those new to the trade or even more experienced fitters.

There are a number of theory presentations during the day as well as the opportunity to get hands-on with filters and pipework.

Over the years we have received some extremely positive feedback from many of those who have attended and now is the time to register your interest in attending the once-per-year event.

Email ross@ispe.co.uk and we will include your name on a priority waiting list. As soon as we have enough names (the workshop is for 6-16 delegates) we will contact you to confirm your place and invoices are sent nearer the time. Priced at just £60 for ISPE members (all categories) and £80 for non-members, this is a very worthwhile day. If you would like more detail do please get in touch.

Industry Situations Vacant

Lots of new adverts have been sent in recently and these all appear on the **ISPE website** under 'Situations Vacant' (a free service to ISPE members). Space precludes us from including a summary here but see www.ispe.co.uk as these are updated regularly.

New Members and Students

We extend a very warm welcome to all those who have recently joined or re-joined the Institute. If you have a colleague who would like more information on the ISPE and its activities, please email ross@ispe.co.uk or telephone 01603 499959 for more details.

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Jarlett-Hill, S.	Falcon Pools Ltd.
Roberts, T.	Buckingham Swimming Pools
Slaughter, J.	Freedom Leisure
Sleight, D.	Lincolnshire Pools & Spas Ltd.
Sleight, L.	Lincolnshire Pools & Spas Ltd.
Smith, P.A.	Asher Swimpool Centre
Taylor, M.	JC Leisure Solutions Ltd.

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Allen Wilson, FISPE, from Studies in Work reports: After three days' intensive training, Mark Laybourne, a parent at Redmarley Junior school, near Newent, Gloucestershire successfully demonstrated his manual skills in pool water testing, backwashing, pool sweeping and the safe handling, storage and addition of chemicals.



Other skills he demonstrated was a comprehensive knowledge of relevant health and safety legislation and other relevant information regarding keeping swimming pool water attractive and hygienic.

Many other parents at the school have attended ISPE-endorsed training in recent years and Allen had delivered training there for over ten years. Mark will look at ensuring that pool helpers maintain their skill levels with regular monitoring and 'hands on' classes. Allen said, "*It was a pleasure to work with Mark who, having his own pool, already had a good knowledge of pool procedures.*" See 'www.studiesinwork.co.uk' for more details.

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