



- *SPATEX 2017 ISPE Workshops*
- *Industry-Supported CPD Training*
- *Dangerous Goods*



Here's Emma helping to build a pool in central London.

There's a lot that goes into a pool. It might have a Duratech heat pump, Triogen UV water treatment and LED lighting. Perhaps a couple of short neck skimmers and all the pipe and fittings.

But before any of that gets built into the pool it has to get delivered to the job.

And this means that Emma, our Office Manager, and her team have to get the right documents attached to it, from order number to delivery note to invoice.

We know that you take pride in the work that you do and you'll be glad to know that Emma does too. It's safe to say that when you're building a pool, she's a good person to have on your team.

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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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Front Cover Picture



LSPC's first bespoke outdoor stainless steel pool, completed in just a few months.

You can't fail to notice the increased profile of stainless steel pools in recent months. Of course, stainless steel pools have been with us for a long time, but there is a surge in their popularity and we are seeing more stimulating marketing to the commercial and private sectors. A good bellwether of growing demand is the fact that London Swimming Pool Company entered into a long-term partnership with Europe's leading manufacturer, Berndorf Bäderbau, to bring both bespoke and modular stainless steel pools to the UK market.

Fifty years ago stainless steel was not well-known as a material for pools and many were built of aluminium. Product developments in the early 1970s led to the industrial manufacture of stainless steel pools and since then there have been tremendous technological advances with Berndorf Bäderbau leading the way with the introduction of new shapes (shifting from the typical square

pool to bespoke shapes), the introduction of free form overflow channels, the development of its embossed design process for the manufacture of anti-slip surfaces and a patented channel inflow system (floor) which provides optimum cleaning. New advances in construction technology have also meant that stainless steel can be combined with other materials, such as acrylic and glass, to create a unique look.

Over the years, there has been in-depth consultation with the municipal sector to deliver a product they rate highly and demand has mushroomed. Luxury hotels and consumers have followed in their footsteps.

LSPC managing director, Jamie Smith said, "Stainless steel pools are stylish and the material is durable, providing excellent service life without any loss of aesthetic quality over time, however, the material offers much more than good looks. It is permanently watertight so is impervious to weather damage, discolouration or bleaching from ultraviolet resistance. Moreover, it contains no additives, so there is no risk of water contamination, though of course, stainless steel must be properly protected from corrosion and rust which arises naturally as a result of the chemicals used to sanitise the water. In the pool pictured, our client was super sensitive about water purity and the inherent properties of stainless steel gave them added confidence."

Several other unique features make stainless steel attractive to pool builders and clients alike: lighter weight, shorter construction time and low maintenance. Some pool designs are restricted by the weight of a concrete pool liner, the finish, and the water itself. A stainless steel pool is considerably lighter in weight than conventional pools because it comes pre-constructed as both a pool liner and finish. This makes it possible to build a pool in parts of a property where a heavier concrete pool may not be feasible.

Working with prefabricated stainless steel pool material and the latest technology speeds up the pool building process, enabling the pool to be completed in less time than it takes using conventional construction methods. This allows the builder to finish the installation faster and the client to have the pool sooner. "These features could lead to many more pools being built in the UK," said Jamie.

Contact LSPC on 020 8605 1255
or by email at:
enquiries@londonswimmingpools.com

DATES FOR YOUR DIARY

The 113th ISPE One-Day Seminar

Tuesday 18th October 2016
at

The Watermill Hotel,
Bourne End, Herts.

The 114th ISPE One-Day Seminar

Thursday 1st December 2016
at

The Walton Park Hotel,
Clevedon, North Somerset.

Programmes have/will be sent to all members about six weeks before each event and may be downloaded from the ISPE website (www.ispe.co.uk)

The ISPE Filtration Workshop

(Date to be advised in Oct/Nov)

St. Leonards on Sea, East Sussex.
Please contact the ISPE office NOW to reserve your place.

ISPE Seminars carry 4 CPD points and the Filtration Workshop carries 6 points.

The 2017 ISPE Student Exams

will take place on
Monday 27th March 2017.
(See 'Important note' on page 32.)



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Editorial

When looking at the contents of this issue of the ISPE Magazine I thought to myself that there wasn't much technical content and wondered if I should make a few changes. On a second look through though it is very evident that throughout this issue there are numerous references to training opportunities, training providers, seminars, workshops and more opportunities to gather CPD points (see page 10 for example) than you could shake a stick at.

The ISPE Magazine was never set up to be a technical journal. Whilst we do run extracts from some of our seminar presentations from time-to-time, space does not permit the full unedited original, and to me that could be a problem. Consequently, we would encourage all members (any category) to attend ISPE Seminars, SPATEX Workshops, CPD Training Days and grasp any other opportunity to expand and increase your knowledge that you can (see the excellent article on this very subject by Jamie Adams MISPE, on page 27, which this point underlines).

On that very subject check the ISPE diary dates on page 3 and the ISPE programme of Workshops scheduled for SPATEX 2017 on page 8.

We hope to see you during the Autumn and Winter at one or more of the listed events, but in the meantime, keep busy!

Ross Alcock - September 2016

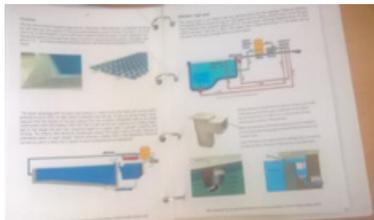
New Pool & Spa Manual from Allen Wilson

My old manual had gone to the third rewrite of the fifth edition and at last I grasped the fact that I work in a dynamic industry and the manual also had to be dynamic.

So this time I got it printed in a ring binder folder and in this way I can add updates through my free of charge e.magazine to allow purchasers and course delegates to stay up-to-date.

I have lost track of the amount of magazines sent out by email but I know that it is also published on my website at www.studiesinwork.co.uk and this has recently had more than 38,000 hits.

All ISPE-endorsed course delegates receive a copy of the manual but it is also for sale from the ISPE for £24.00 inc p&p. Contact me direct or ross@ispe.co.uk to order your copy. (*The photos don't do it justice! Ed.*)



The Fear of Fountains and Features

(Wilson's Words of Wisdom)

I have recently worked with a national Sunday newspaper and how hard was that!

They commissioned me to test out random water features and biological hazards associated with them.



A typical fountain.

These type of aquatic facilities have always been a source of concern due to the problems associated with them, some times poorly operated with even poorer choices of disinfection and/or pH control.

These are most popular when the weather is good and the kids can't wait to get under them. Often I find them disinfected with BCDMH that sadly cannot be stabilised against UV losses and so is quickly dissipated.

Many use Trichlor or Dichlors where the Cyanuric acid (CYA) stabilises the chlorine but sadly due to poor knowledge the CYA level is often allowed to rise making the chlorine less effective. This is accelerated by high evaporation levels increasing the CYA value left in the water. Ideally the CYA level should be kept below 50 mg/l (ppm) with a free chlorine level of at least 2.5 mg/l at a pH between 7.2 and 7.4. I would also strongly advise UV treatment and flocculation. I can recall delivering a paddling pool course at Runymede Pleasure Park where the delegates and I observed a young mother washing a swim nappy

out in the pool. I thought I would offer her a few words of well-meaning advice and during this conversation I learnt two new swearwords.

The World Health Organisation (WHO) in their 2006 publication on recreational water said children will swallow on average 36 mls of water and watching them recently '*whale spouting*' in my local fountain, I actually thought that this was a gross underestimate! This fountain when tested had only 0.25 of free chlorine at a pH in excess of 8.5, making any chlorine present ineffective. In reality these kids were swallowing *Pseudomonas* present at more than 100mg/l (ideally should be absent) and TVCs present in excess of 10,000 (should be less than 10).

Windborne droplets are a source of great concern because Gran and Gramp are sat on a bench 30 metres away watching over their grandchildren and becoming the recipient of these aerosols, that in worse case scenarios could also contain *Legionella* bacteria. Ten years ago in Lens, Pas de Calais a Legionnaires' disease outbreak killed more than 10 people. Some of those affected did not go within six kilometres of the source. This indicated that bacteria such as these can stay and travel in concentrations far more than we ever envisaged.

So what I am basically saying is treat these features like you would a pool, control disinfectant, pH, CYA and TDS (always a good simple test of how old your water is) and get meaningful training that I can provide.

Allen J Wilson FISPE, Tech IOSH
Studies In Work -
www.studiesinwork.co.uk

Why is SPATEX 2017 important to YOU?

Let's not beat around the bush ...if your job involves water leisure in any capacity then SPATEX 2017 is for YOU! It's designed to meet YOUR needs. Celebrating its 21st anniversary, SPATEX is the UK's biggest and best wet leisure Exhibition, so for anyone in the trade it really is a must attend date. Not convinced? Then read on...

1. Education is the key: ISPE is not a loyal partner and supporter of SPATEX for nothing! For the last twenty years, ISPE, with its programme of free workshops, has imparted a massive amount of knowledge and provided free education and training that has come to be recognised throughout the Industry as being a valuable resource. Such are the workshops' popularity, they now take place on all three days of the Show and are firmly established as an integral part of SPATEX.

For 2017, the ISPE will once again be presenting its own, much-loved brand of technical workshops – with in excess of 20 different sessions running throughout the three days of the Show, a wide variety of pool and spa-related topics will be covered such as the legal requirement for microbiological testing; LED technology and the latest on commercial spa operation. All attendees of the workshops receive a certificate of attendance and valuable CPD points, and remember, it's all free!

Keith Moody of La Paloma Contracts, Spain, voices the opinion of many when he says: "Each year I come over from Spain to attend SPATEX, not just for the exhibition and display of new products but also for the seminars and workshops. Living and working as I do in Spain, it is important to keep up-to-date with all the Industry training, education and Standards and SPATEX is an unparalleled free source."

Find details of the first two days of the ISPE Workshop programme on pages 8 & 9, and the full programme will shortly be released on the SPATEX website: www.spatex.co.uk.

2. And there's more! In addition to the ISPE workshops, SPATEX will once again be offering a parallel programme of seminars on topics such as the most successful ways of marketing your company, the latest health and safety legislation and the stand-out product innovations for 2017.

3. In with the new – Exhibition space has been selling like hotcakes so we are confident of well over 100 Exhibitors, from home and abroad. Every sector from the whole world of wet leisure will be represented, from wet and dry safety flooring, new spas, saunas, water play features, pool enclosures to energy saving chemical control and heating and ventilation units. You can be sure to find what you are looking for,

whether it is for commercial or domestic use. It's the ideal hunting ground to source new products and innovations. New ways to save energy is a topic high on the agenda and there will be lots of new launches promising just that! Take advantage of special show discounts and offers. Not sure where to start or got a technical query? Come to the **SPATEX Welcome Desk** so we can point you in the right direction.

4. Expert advice on tap:

SPATEX is the meeting place for the Industry's experts so if you have a project query or plan you'd like to talk through, then this is the place to be. With associations such as ISPE, SPATA (Swimming Pool & Allied Trades Association) and PWTAG (Pool Water Treatment Advisory Group) out in force you can be assured you're getting the best advice the Industry has to offer.

5. Make a night of it: 2017 is a very big year for SPATEX as we are celebrating 21 years of success so we are pulling out all the stops for a very special event. On Tuesday evening BISHTA and SPATA will be hosting in the Ricoh Arena a gala dinner for the British Pool & Hot Tub Awards (T: 01264 356210/1 to book tickets). When the Exhibition closes for the day on the Wednesday at 5pm, all visitors and exhibitors are welcome in the Ricoh Arena's Bar 87 (conveniently situated just seconds away from the Ericsson Exhibition Hall) for a themed networking event including free drinks, nibbles, music and a lot

of fun. With networking events, and of course the Ricoh Arena's G casino (the UK's largest), there is plenty to justify a night away. For some excellent accommodation deals go to www.spatex.co.uk for hotels in the vicinity.

Last year's Mexican themed networking event proved a massive Industry success.



Donning the sombreros were some well known ISPE faces...

Visitor registration is FREE – go to www.spatex.co.uk

SPATEX 2017 - Tuesday 31st

January to Thursday 2nd

February - the Ericsson

Exhibition Hall, Ricoh Arena,

Coventry CV6 6GE. Over 2,000

free car parking spaces and just

off the M6 motorway. To book

stand space please contact the

SPATEX team:

helen@spatex.co.uk or

michele@spatex.co.uk

Tel: +44 (0) 1264 358558.

www.spatex.co.uk

PROGRAMME OF WORKSHOPS AND DEMONSTRATIONS
Organised by the ISPE on behalf of SPATEX Ltd.

We are delighted to reveal the (almost) complete programme of Workshops for the first two days of SPATEX 2017 below. For the 21st anniversary we wanted to be able to include a number of new titles and topics and we are pleased to announce that (so far) we have TWELVE new sessions confirmed. There are at least five workshops aimed specifically at those in the commercial sector, numerous water treatment-related presentations and a number of sessions focused on aspects of Health and Safety, too. There will also be workshops looking at tiling and adhesives, lighting, dehumidification and legal implications (see www.spatex.co.uk for the full programme). We are currently finalising the timings for the third day of Workshops and liaising with the PWTAG to ensure no clashes! We can say, though, that the Thursday workshop programme will include aspects of filtration, heat pumps and PVC liners, amongst other topics.

In the meantime, anyone who has seen an ISPE workshop during SPATEX will know just how useful and informative they can be, and for those who have never been to one, the 21st Anniversary of SPATEX will provide a golden opportunity for those working in all areas of the pool and spa trade, both domestic and commercial, to come and see what they have been missing. With around 23 separate sessions over three days, there will be something of interest to everyone in what is shaping up to be the best three-day programme of ISPE workshops ever presented at SPATEX.

We are extremely grateful to all the speakers and their companies and hope that this 21st anniversary, FREE-to-enter programme of workshops will be well-received by all those attending SPATEX 2017.

There will be no better place for anyone in the pool and spa trade, than to be at SPATEX 2017. All the experts, most of the products and as much technical information and help as you could ever need will be available to visitors. See you there!

ERICSSON EXHIBITION HALL, RICOH ARENA, COVENTRY
Tuesday 31st January - Thursday 2nd February 2017

Sessions shaded yellow will be of particular interest to those working in the commercial sector.

Ref.	Subject Presentations	Tue. 31 st Jan.	Wed. 1 st Feb.
1. NEW	COMMERCIAL SPA OPERATIONS A look at the basics from the spa operator's perspective. Mike Shuff MISPE (20 minute session.)	10.30- 10.50	
2.	LED TECHNOLOGY Multicolour lighting for all pools. Andy James MISPE (20 minute session)	11.00- 11.20	

3. NEW	FRESH AIR VERSUS HEAT PUMP DEHUMIDIFIERS IN SWIMMING POOLS A comparison of the pool hall environment, energy use and maintenance costs of these competing modes of dehumidification. Graham Kneale FISPE (30 minute session)	11.30-12.00	
4. NEW	ADVANCED OXIDATION PROCESS (AOP) Review into advanced oxidation process solutions available for swimming pools. Keith Glass (30 minute session)	12.15-12.45	
5. NEW	OH NO! WHAT DO I DO WHEN THINGS GO WRONG? How do I safely add chemicals if my controller packs up? What levels should we close pools and spas at? Why do we need to floc' all of the time? Why do I need to test every two hours in our spa when we have an automatic controller? Why do I need to revalidate my pool & spa plant qualification? Allen Wilson FISPE (45 minute session)	1.00-1.45	
6. NEW	SPECIFYING TILING FOR SWIMMING POOLS & OTHER WET LEISURE AREAS Best practice and guidance on tiling in wet leisure areas, considering the impact of tiles, backgrounds, water chemistry and finished environments on the waterproofing, adhesive and grout specification. Andrew Reid (30 minute session.)	2.00-2.30	
7. NEW	SALT ELECTROLYSIS AND HYDROLYSIS – WHAT IS THE DIFFERENCE? An explanation of how private pools can operate with a free chlorine residual as low as 0.2mg/l with the appropriate filtration system. Jimmy Lamb TnISPE(Cert.) (30 minute session.)	2.45-3.15	
8.	HOW TO DISMANTLE AND REBUILD A POOL PUMP A live demonstration, with commentary, reviewing all components of a pool pump and the correct way to dismantle and service all parts. Chris Carr FISPE and Phil Barlow MISPE (45 minute session.)	3.30-4.15	

Ref.	Subject Presentations	Tue. 31 st Jan.	Wed. 1 st Feb.
9.	<i>DETAILS TO BE REVEALED SOON</i>		10.30-10.50
10. NEW	SWIMMING POOL COVERS An Engineer's Guide. Will Dando FISPE (20 minute session)		11.00-11.20
11. NEW	PHOSPHATES, SULPHATES AND CHLORIDES IN POOLS. A look at the causes and effects. Mike Shuff MISPE (30 minute session.)		11.30-12.00
12. NEW	THE LEGAL IMPLICATIONS OF WHAT HAPPENS WHEN IT GOES WRONG What happens when you pursue a Civil Case, to include the Applicable Law, proving Negligence, evidence required and examples of successful cases. Simon O'Loughlin (30 minute session.)		12.30-1.00
13. NEW	PRACTICALITIES OF MANAGING HEALTH & SAFETY IN POOL PLANT ROOMS Dealing with the principles of risk assessment and how to manage health & safety within pool plant rooms. Robert Byrne (30 minute session.)		1.15-1.45
14. NEW	TURBIDITY: What is it and why should it concern me? Colin Day FISPE (30 minute session.)		2.00-2.30
15.	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. Colin Jenkinson MISPE (20 minute session)		2.45-3.05
16. NEW	THE LEGAL REQUIREMENT FOR REGULAR MICROBIOLOGICAL TESTING What we must do to comply with guidance. What must we test for? What are TVCs, coliforms and pseudomonas? What do we do in the event of a failure? When should we close and how to avoid closure? Allen Wilson FISPE (30 minute session.)		3.30-4.00

Industry-Supported Continuing Professional Development (CPD) Training

ISPE President John Cheek, FISPE has asked companies in the pool and spa trade to participate in offering selected full-day or half-day training sessions for ISPE members who wish to keep a record of their CPD points as evidence of their continuing learning and development.

Unlike ISPE seminars these training sessions may be geared towards specific products, although the ISPE is not endorsing any product or service encountered during the course of these **free-to-attend** training sessions.

Light refreshments will be offered and delegates will be given attendance certificates on departure indicating four CPD points for a half-day session or eight CPD points for a full day's session. Those attending will benefit from the free training being offered and the participating companies will be meeting ISPE members face-to-face and potential new contacts.

It is hoped that ISPE members (all categories) will take advantage of the enormous amount of information and knowledge which is being freely given by the participating companies and because space will be limited, these training sessions can only be offered on a first-come-first-served basis.

We also hope to publicise more of these training days as time goes on so please keep in touch and check back regularly. Further details from ross@ispe.co.uk or contact the relevant companies for specific details of any particular event (also

see the ISPE website, www.ispe.co.uk for further dates).

For those companies who might be interested in participating, and can offer some free training to ISPE members, please let us know what you may be able to offer. The Institute will publicise the training events on the ISPE website, through the ISPE Magazine, during ISPE seminars and at SPATEX.

Industry CPD Training Diary

Contact the participating company to book your place.

Aimed at increasing the skill set and knowledge of the Industry, Certikin and ISPE (Institute of Swimming Pool Engineers) have organised three important seminars that will bring delegates up to speed on H&V, chemical dosing and filtration with the added bonus of four valuable CPD points for their attendance.

The sessions, hosted by Graham Kneale FISPE, will be held at Certikin's HQ in Witney, Oxfordshire (Avenue Two, Witan Park, Station Lane Ind. Est., Witney OX28 4FJ), on **Thursday 27th October, Tuesday 22nd November and Thursday 23rd February** with the following programme:

- | | |
|----------------|---|
| 10.30am | Registration, tea and coffee |
| 11.00am | New developments in Heating and Ventilation |

by Graham Kneale FISPE, Certikin H&V Field Sales Executive.

Minimising installation, operation and ownership costs for swimming pool environmental control systems, with facts and figures independently verified by the Chartered Institute of Building Services Engineers (CIBSE).

12.00pm Tour of Certikin followed by a sandwich lunch.

1.00pm Chemical Dosing - The Bigger Picture, by Simon Jay, MD of EMEC. An overview of how to build a winning approach to chemical dosing. From plant room design, through to preventative maintenance, learn what's imperative to managing chemical dosing opportunities and the relationship with the end client/operator.

2.00pm Commercial Filtration – Improving the Bottom Line, by Steve Nelson TrISPE (Cert.), Certikin Commercial Manager - Commercial filtration and the principles of good practice to meet PWTAG requirements when designing and sizing up commercial equipment for different type of pools.

Places will be awarded on a first-come, first-served basis.

Please email Jo Catterall (jcatterall@certikin.co.uk) now to book your place.

~~~~~  
**Training Provider - Complete Pool Controls Ltd., Unit 2 The Park, Stoke Orchard, Bishops Cleeve, Gloucestershire GL52 7RS**  
**Tel. 01242 662700. Contact - Linda Brueford (details below).**

CPC will be offering one dual session on **Wednesday 14<sup>th</sup> December** featuring chemical dosing and control systems, followed by

chemicals used in commercial and domestic pools and spas.

Two further sessions will finish immediately after lunch on **Wednesday 18<sup>th</sup> January** and **Wednesday 15<sup>th</sup> February** and will feature the morning subjects on chemical dosing and control systems shown below.

### **Programme**

9.00am - Coffee and registration  
09.30 - 10.30 - Basic dosing and control principles/considerations when selecting a system.  
10.30 - 10.45 - Factory/warehouse tour.  
10.45 - 11.30 - Dosing devices available.  
11.30 - 12.30 - Health & Safety dosing-related considerations.  
12.30 - 1.30 - Lunch

*Wednesday 14<sup>th</sup> December **only** continues with:*

1.30 - 2.30 - Basic principles of recreational water treatment.  
2.30 - 3.30 - Chemicals used in:  
■ Commercial Pools  
■ Domestic Pools  
■ Hot Tubs

Bookings may be made by email to [lbrueford@cpc-chemicals.co.uk](mailto:lbrueford@cpc-chemicals.co.uk) or by phone on 01242 662700 and ask for Linda Brueford.

(Please let Linda know when booking of any special dietary requirements.)

\*\*\*\*\*

***Many thanks to Certikin and CPC for getting this off to a great start. We hope to be adding to the programme very soon.***

# Transport of Dangerous Goods

By Howard Gosling BSc., FISPE.

Did you know that the law has changed and anyone involved in handling Dangerous Goods, which is any chemical with a UN Number, and you determine that in Section 14 of the Safety Data Sheet (formerly known as the Material Safety Data Sheet), needs to have training commensurate with their duties?

This does not just mean anybody driving a lorry or van, (1.8.3 refers to drivers and 1.8.2 to crew) but it also means the person who puts the Dangerous Goods onto the van, the forklift driver who loads and unloads the Dangerous Goods and the person who looks

after them in the stores. Moreover, people need to have a Certificate showing that they have been trained (1.3.3 refers to Records of Training received)!

Have you received your training?

Have you got a Certificate to prove it?

The Carriage of Dangerous Goods and Transportable Pressure Equipment 2009 is actually part of Health & Safety legislation and Statutory Instrument Number 1348 of the 2009 Regulations, covers the Carriage of Dangerous Goods (CDG). This is known as CDG 2009, and later on came CDG 2011 (the Amended Version, Statutory Instrument no. 1885 of the 2011 Regulations). They all refer to ADR ("Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route") as well as DIR (Rail) and ADN (Inland Waterway).

Nowadays, the Government does not need to introduce new legislation because in 2013 and 2015, it was automatically covered by the changes in the ADR European regulations because the CDG Regulations basically referred to ADR. The UK just have a few "Approved Derogations" for use in this country and if there are no changes to the Amendments that the UK has made, the rest of the changes can just be accepted under ADR.

You do however, need to know what chemicals you are



**Triopen Ltd.**

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East Kilbride G75 0YF**

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Fax: +44 (0) 13 55 570 058

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carrying, how they are packed, and which chemicals are Regulated; for example, did you know that “Di-Chlor” whether you call it Sodium Dichloro Isocyanurate Dihydrate or Troclosene Sodium, Dihydrate the chemical is now Regulated for Transport!

If you have not been trained, you are breaking the Law. CDG 2009 Regulation 3 refers you to ADR, and ADR 1.3 refers you to Training which is divided up into General Awareness, Function Specific and Safety.

There is also a requirement for Refresher training in ADR Volume 1 2015 Chapter 1.3, under reference 1.3.2.4 so it is not just once in a lifetime, there is refresher training required and what the Law says is “periodically!” - which is usually assumed to be every 2/3 years.

Moreover, 1.3.3 refers to Records of Training received under the heading of Documentation. The records are kept by the employer. Records of training shall be verified upon commencing a new employment.

Regulation 8(2) of CDG 2009 states “A person involved in the carriage of dangerous goods must take all reasonable steps to ensure that unauthorised access to those goods is prevented”.

Regulation 31 refers to Accident reports. You need to write them if involved in an accident when carrying Dangerous Goods.

Do not get caught out. Sign on for training!

There are separate rules and Regulations for the Carriage of Dangerous Goods by Sea and that

includes transport to the Isle of Wight, the Channel Islands, Isle of Man and the Scottish Islands. Generally they are more strict than the Road Regulations and the Air Regulations are more strict than that.

Finally, it should be remembered that there is also Law prohibiting the sending of Dangerous Goods in the Royal Mail, and people should obtain the leaflet, ‘Prohibited and Restricted Items - RM DG 1A’, available from any Post Office.

**For further details and course dates please contact  
Howard Gosling via email:  
howard@poolandspaadvice.co.uk**



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# Riding for Macmillan Cancer Support and The Brooke Foundation for Horses and Donkeys.

By Alan Joseph (MISPE Ret'd).

For me it began on Friday the 24th of June as I got on my loaded Honda Shadow and made my way up to Stowmarket to stay overnight at my son's house before joining the other nine riders for the start on Saturday.

Saturday heralded a feeling of adventure as we started off for our first day's ride to Whitby in Yorkshire. However, it was not too long before the rain started, just a shower we thought, not worth getting our wet weather gear on, but not so, it was going to rain all day and only stopped when we got near our camp site at Whitby. Sunday morning we packed our

gear onto the bikes and although we had fresh dry clothes on we had to get into wet motorcycle clothing including wet gloves and boots, but no matter, it was a sunny morning, we would dry off in the wind.

Wishful thinking, it rained again and it was heavy almost all the way to Dunfermline. This was the day we had our first drop out, one of the bikes had an engine failure that we could not fix on the roadside, it was terminal, so we left the bike and owner, Chubbs, waiting for the rescue service to get him home (by the way, when he got home, he got into his car and drove up to Loch Ness to join us as a support vehicle until the end).

It was still raining that evening and all night so another day of riding in wet gear was facing us on day three. Day three took us from Dunfermline to Lovat Bridge, Beaulieu, in Inverness and yes, it was still raining and we were now very, very wet and really wondering whether we should be doing this at all. When we woke up on the fourth day we found that one of our party had had a serious leak in his tent and had got hypothermia so we had to call an ambulance and he was taken to hospital where he was kept in. We had to carry on as we were on a tight schedule which included getting up to John O' Groats and when Keith was discharged from hospital he got on his bike and went back home as we were too far away by then for him to re join us.



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*Rather damp at John O' Groats.*

We had by then set off for Tongue, once again, rain most of the way, but at Tongue we were staying in a Youth Hostel, not in tents, what a joy, a bed for the night, a chance to dry our gear and a log fire indoors to sit around and dry off, although how on earth I was in a "Youth Hostel" at the age of almost seventy leaves me bemused but grateful! The dry clothing we had put on was not for long because it poured with rain all the next day as we headed to near Loch Ness. By now, with the rain we had very strong winds and it was a struggle to keep the bikes upright when fully loaded, especially on the very tight and narrow hairpins in the Highlands, very scary indeed, we had three "offs" but no injuries, just a few scuffs and bruises. I almost came off a few times but was lucky that I was able to use my stabilisers

(legs) to keep myself upright, it was still raining that evening when we pulled into our campsite in Drumnadrochit.

Day six dawned and we headed off for Arrochar now heading south again, what a ride, beautiful scenery that we could not appreciate as we spent a very long day fighting the wind and driving rain on our bikes and to top it off, it started to hail, what joy. This is the day we lost our third rider. Nick's bike broke down, there was water in the electrical system and an oil seal had gone so he waited for rescue and we heard from him when he got back home. At least he would not have to put dry feet into squelching wet boots again.

On our seventh day we headed down to Lockerbie, near Gretna for our last night in Scotland and the weather was starting to improve at last. The campsite in Lockerbie was well appointed and we were able to get hot showers and the use of a clothes dryer at last. That was the first week over and although we had been soaked every day we still stood around our fire pit under dripping trees and had a wine in the evenings talking about each day. Personally, I had a very sore neck and searing pains in my shoulders for at least an hour each day, both caused by fighting the wind and holding the bike on course.

Week two began with us leaving Scotland for Wales on day eight as we headed down to Beddgelert in Snowdonia, what a day it was, the sun finally shining and wonderful wide roads where you could throw your bike into long

sweeping bends powering up all the way round, I now felt twenty one again, we had a BBQ that night and yes, it did rain, but only a short shower, so not bad at all.

On day nine we set off for Abergavenny in Gwent, another nice day with good riding, just a short ride today, only about 140 miles so we were able to take in the scenery as well. From Abergavenny we headed out of Wales on day ten to Bush, near Bude, via the Cheddar Gorge, a long day in mileage with strange feelings; we all felt sad that we were now on the way home, made even stranger when we passed a sign that said "London 127 miles" and we were heading many more miles away.



*On the road in Bush, Cornwall.*

We were really looking forward to day eleven as Terry Young of Atlantic Pools and Hot Tubs had invited us to stay with him and Hilary overnight, not only a night under cover but use of the pool and hot tub as well, what an oasis of relaxation for one night. We rode down the Atlantic Highway (A39) to Land's End where we all felt a sense of achievement, although the journey was far from

over and then on to Helston, where Terry and Hilary live, for a wonderful evening. Thanks to both Terry and Hilary for that.



*At Land's End. From the left, standing, Paul and Carol (Paul's wife), Me, Phil (my son), Chubbs, Mark and Tex, seated, Paul and Steve.*

After a hearty breakfast provided by Hilary, on day twelve we rode off towards Slapton Sands, just a short hop of just over 100 miles which enabled us to pitch our tents (which were now dry) early and thus we were able to ride down to Slapton and have a pub meal overlooking the sea. Day thirteen saw us heading towards the New Forest and a campsite just outside Southampton, a nice ride via Dartmouth where we stopped for breakfast and a stroll around and then on to Burley in the New Forest for another chance to stretch our legs. The campsite here had nowhere nearby to eat so we had another BBQ and chewed the cud about the journey and how strange that it was almost over. Day fourteen found us setting off for Shatterling in Kent for our last night under canvas. It should have been a straightforward day but, even on this, our last day before

home, there was a sting in the tail, our support vehicle (Chubbs again), suffered with seized brakes so we had to hang around till Kwik Fit repaired them, then, because of a diversion, another 20 miles were added to the distance. On the up side, the campsite was on land behind a pub, owned by bikers, so our first priority was a cold pint, then set up camp. The pub was called The Frog and Orange and the owners did not charge us for camping and only charged £5.00 for an evening meal and the same amount for a huge breakfast.

Going home morning soon came and it was a sad time for all as I was going to break the group up. They were heading back to East Anglia where they live but I was going to peel off at Sittingbourne and head home as I had done the ride to East Anglia at the start.

I have to say that it has been a life changing experience, I have ridden with people who will be my friends for life, the group is based in East Anglia and call themselves the "Alien Riders", look them up, they do a lot of work for charities and Help for Heroes. Phil, my eldest son asked me to do this with them and for that, I am forever grateful.

We, as a group, have met so very many helpful, generous and kind people along the way, almost all strangers that we all feel honoured to have had a chance to do this. I am now giving my old Honda Shadow back to my son so that she can be retired, she is a 1987 bike and is a rare one and she took care of me all the way around without missing a beat for over 2,700 miles. I am going to get a 400cc Cafe racer with a single seat and clip on handle bars to poodle around on. YES, I do believe I am getting younger! Seriously, would I do it again? DEFINITELY. Would my body and mind stand up to it again in two years' time? DEFINITELY NOT!

So, THANKS FOR THE MEMORIES. Alan Joseph.

*Editor's note: Alan also added his thanks to all those who sponsored him on his grand tour. Well done Alan!*

#### WHAT'S YOUR STORY?

We would be delighted to hear from any of our members if you have a news story or anything you would like to share with your fellow ISPE members and other readers. Email us at [ross@ispe.co.uk](mailto:ross@ispe.co.uk).



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# Product Profile

## Calorex Variheat

### User-friendly upgrades for Calorex Variheat

Featuring the most advanced components on the market, Calorex's upgraded Variheat III swimming pool environmental control units are now more user-friendly than ever before.

Offering the ultimate in flexibility for tight plant room spaces, the Variheat range is a dehumidification and ventilation system in one, with heat pump heat recovery to swimming pool water and air.

Models 600, 900 and 1200 now include constant flow inverter driven fans, which intelligently adapt themselves to provide the correct design airflow. Pre-set at the factory, the fan motors automatically adjust to accommodate any ductwork resistance or filter cleanliness within their operating range.

Not only does this make commissioning much faster, with no need to measure and adjust airflows, the power consumption and noise levels are always optimised to perfectly suit site conditions.

"The Variheat III has undergone a number of revisions to provide an outwardly flexible and inwardly advanced end product," explains Richard Carrington, managing director at Calorex.

"While retaining the inherent flexibility of the Variheat III's range of configurations that suit any plant-room, the units are now much simpler to both install and operate."

He adds: "We believe that this feature is another industry first and demonstrates Calorex's continued commitment to remain the flag bearing manufacturer of purpose designed swimming pool environmental control systems."

The Variheat range is specifically designed for light commercial or domestic use and offers in excess of 3,500 configurations. It can be supplied



*Calorex's Variheat III range is now easier to install and operate than ever before, thanks to its technically advanced components.*

with heat recovery to air and water, or air only, and is suitable for use with renewable heating technologies such as heat pumps and can give summertime cooling through their unique refrigeration system.

Typically, for every unit of power that a Calorex unit consumes, it will convert three times this amount to useable heat. The potential energy savings are huge. In fact, compared to traditional heat and ventilation energy, cost savings of over 60% are achievable while corresponding CO<sub>2</sub> emissions can be dramatically reduced by up to 70%.

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**Product Profiles**

We are pleased to include a select number of our members' Product Profiles, space permitting, within the pages of the ISPE Magazine. Email 50-500 words plus a picture to [ross@ispe.co.uk](mailto:ross@ispe.co.uk) for a bit of extra free publicity.

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# Inspirational Pools ... in the Hillside

John Dawes, FISPE - August 2016

**Migrating from Ford to Rutherford** in the last century meant learning a brand new trade. And that also meant forgetting all about automobile engineering 'on the move', in favour of trying to discover 'everything you need to know' about swimming pool engineering in the static site – an immobile situation, usually.

Back then there was neither ISPE nor SPATA to turn to for guidance, but ASPC (Association of Swimming Pool Contractors) did list their *Swimming Pool Standards* (concrete pools only) for potential UK members. That at least gave a clue as to what to expect was needed in the business.

Fortunately, an American book series ***Sunset Swimming Pools design, landscaping, maintenance*** (Lane Magazine & Book Company, Menlo Park, Ca.) explained and illustrated the great variety of designs and growing range of systems in operation throughout the US in 1970. Also, a classy French magazine ***Piscines*** (Editions Christian Ledoux, Villejuif.) was published 1973 with photographs of stunning pool scenes. There was also an English quarterly journal ***Swimming Pool Review***, offering news and comment for those in the pool trade.

Every keen employee really did need to get to grips with the latest pool methods in this fast growing industry, but it wasn't until 1978 that the Institute got going with brand new training courses and study manuals for pool engineers, following soon after.

Fortunately, in those early days, working with a long established group of companies like Rutherford, laid a well-trodden path for novices to make a serious learning effort. Senior pool engineers, like Jim Johnson (author of the early ISPE Filtration study course) and Graham Rutherford MD (both long serving ISPE Presidents in their time) provided 'Sitting by Nellie' style invaluable guidance. Whenever a newcomer, or even an old hand, had an unusual problem, Jim or Graham had an answer based upon good practice and long experience.

Fielding the phone one day, this newcomer to the Rutherford Battle enterprise, took a panicking call for urgent help. It was the rainy season in Sussex and the caller claimed his new pool was sliding downhill in the pouring rain. Although he did not have a Rutherford built scheme, it was agreed it would be good for my experience to visit immediately to assess the situation and report back. My own desire to build a decent pool in my new hillside garden encouraged me to find out what was going on and – perhaps – learn how to prevent the whole project from moving itself somewhere else...

Meanwhile, the new mobile pool, I discovered, had already travelled 2 or 3 feet downhill, clearly shown by the separated pipeline in a deep poolside uphill crevice, hastened by a continual surface flowing rainwater. And the whole was still moving as we stood there! In my basic estimation, it seemed that emptying the pool would reduce weight (but maybe add other

problems) and digging a drainage trench around the perimeter would divert downhill water flow. The frightening sight opened my eyes to the importance of setting my own scheme for a hillside pool onto proper foundations along with suitable relief.

On getting my report, Graham and Jim immediately took up tools and gathered ground workers to go out and dig immediate diversions, provide water relief and start reinforcement downside. That brief experience demonstrated that in the wrong conditions, a poorly planned inground pool could float or slither away, so there is always serious need to learn site assessment, ground work planning, structural reinforcement and hydrostatic relief. Comprehensive technical education and regular training experience is

essential to know how to deal with all kinds of onsite situations, like running sand, high water tables, solid rock, or heavy sticky clay – the same kind of stuff in my garden, neatly disguised by geologists as Weald of Kent Tunbridge Wells Sand! Working in unknown ground is always a truly risky proposition.

**Piscines magazine in 1973**, by good fortune, published a photograph of an sturdily engineered pool structure at *Beaulieu-Sur-Mer* showing the nouveau French way of dealing with a cliff-hanging situation.

As a budding pool enthusiast, surely such a solid structure could be adapted to inspire the English garden solution, see *Hillside pool sketch Hawkhurst* drawn to help set up the scene. With plenty of support from Rutherford Group and a lot more reading and research, a self-build

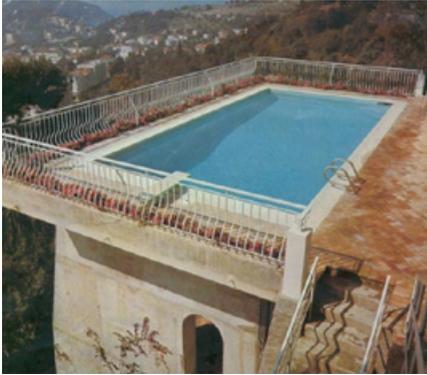
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*Hillside pool at Hawkhurst* was securely established and safely operated for very many years.



*Cliffside pool Beaulieu-Sur-Mer*



*Hillside pool sketch Hawkhurst*

Such experience led to more research reading and eventual daily pool usage, enough to start writing articles encouraging readers to explore the many pool world opportunities. The realisation that our L-shaped pool was, in fact, two pools-in-one was the first appreciation ... it offered in one space, a shallow-end sideways with steps and sunny alcove, and a deep-end longways, for up and down swimming. But the real advantage for family use was using it as a football

pool pitch, where no handballing meant exciting footer only matches between children defending the shallow end versus adults struggling to kick the ball away from the deep end.



*Hillside pool at Hawkhurst*

As the only British pool books at that time were originating via The Cement & Concrete Association (for example, Philip Perkins *Swimming Pools*, 1971), there was in my pool-insidership view, scope for new pool titles to be published commercially, based upon widespread research and operational experience. Home and garden pools were therefore featured in *The Swimming Pool & the Garden* (Bartholomew & Son 1975) and every kind of pool was examined and technically detailed in *Design & Planning of Swimming Pools* (Architectural Press/The ISPE Handbook 1979/1986).

Plenty of other titles then followed on specialised topics, such as solar

energy systems for UK Solar Energy Society, energy efficiency for ETSU, energy studies for The Electricity Council, *Energy Data Sheets* for The Sports Council and in particular, editing the original swimming pool technical papers for ISPE.



ISPE Handbook

In my post-writing years, I'm concerned that detailed pool know-how remains a key component of the pool & spa trader's basic equipment to give clients and prospective pool owners confidence in the ability of your organisation to manage any watery emergency, inground or out, above ground or deep underground. After all, we are in the business of providing pleasure and leisure for everyone with an ongoing responsibility – just like the green Rio Olympics!

© John Dawes - September 2016.

*Editor's Note: The ISPE Technical Papers, originally edited by John Dawes are still available, many with updates since their original publication. For a full list of titles see the ISPE website [www.ispe.co.uk](http://www.ispe.co.uk) under Publications.*

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The advertisement features a white Vac-Alert safety system device with a pressure gauge on top. To the right, a young girl with swimming goggles on her head is smiling. The background is a blue pool setting.



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# Invaluable Knowledge

By Jamie Adams, MISPE

*Knowledge can be used to attract new customers, it can be used to retain staff and motivate them and it's absolutely vital if you want to grow your bottom line. Clever stuff, don't you think?*

When you think about what 'knowledge' means in the wet leisure industry, probably what first comes to mind is something that you use to solve practical problems.

It's how you can test a body of water and then get the chemical balance just right, and keep it that way. Solve the problems that you find in someone's plant room and get all that antiquated equipment to keep running for one more season. Design a state-of-the-art installation and specify the latest digital control panels, an air-source heat pump and programmable LEDs.

All of those things you can do because of the knowledge that you have gained over years of experience. And yes, as time goes by it seems like we all have to be constantly adding to our knowledge just to keep up with the latest technical advances.

**But the clever thing about 'knowledge' is that it can do so much more than that.**

We all work in what is essentially a very practical industry but we also manage our businesses and develop our careers. It's sometimes easy to overlook the value of knowledge in these areas.

As MD of Golden Coast, one of my biggest responsibilities is

looking after our staff. After all, it's the people that make the business.

So we invest in our people and offering training and courses to grow their skills and adding to their knowledge in that way is easily one of the best investments that we make.

You can retain and motivate people with their pay packet or their salary but if you constantly ensure that staff are appropriately trained and given the skills to do their jobs to the highest standard, that's when they know that you value them.

I think some people might be afraid that if they give their staff new skills and invest in training them, they might take those skills elsewhere. Leave to work for that bloke who has a pool business just down the road.

But think about something that Henry Ford said. "The only thing worse than training your employees and having them leave is not training them and having them stay."

Clever man, that Henry.

**Knowledge has a value that you can take to the bank.**

So your business is staffed with a bunch of people who have all the necessary skills that you need to prosper in the wet leisure industry these days. They are motivated and keen to do you proud.

What else do you need?

Well, you need to use some marketing know-how to attract enquiries and get customers

coming through the doors. I'm a big believer in marketing. Having a great product or business is only going to lead to success if people know about it.

The Internet is full of marketing advice and, in a month or two, there is going to be even more of it. And this advice is going to be specific to our industry.

Golden Coast will soon be updating its website and, in the new Resources section next to the data sheets, brochures, catalogues and manuals will be almost 100 articles on different aspects of marketing.

If you are running a business in this industry, surely it's as important to know the best way to sell to individual clients as it is to know how to specify the correct pump for a job and how to maintain and service the products you install.

And finally let's look at the bottom line.

Service and maintenance is the fastest growing area of the wet leisure business and it's an area where it is very easy just to be selling your time.

But you don't want to be selling your time; you want to be selling your experience and expertise. The problem with time is that there is only so much of it.

The more knowledge and skills you have, the more valuable your time is. It becomes more valuable to your customers, and therefore more profitable to you.

**'A little knowledge is a dangerous thing.'**

That's something that I remember people saying when I was younger; and I think it's still

true. Just not in the way that it used to be meant.

Whether it is in your business, or in your own career, the more knowledge you have, the better.

Obviously as time passes you gain knowledge through new experiences, by working with new people and with new products. All that is good. But I think you should go looking for new knowledge as well.

You just never know how, where or when it might come in handy.

With thanks to  
Jamie Adams, MISPE  
of Golden Coast.  
www.goldenc.co  
Tel. 01271 378100

\*\*\*\*\*

## A Bit of Fun!

One of our learned Fellows who shall, for now, remain nameless has suggested we see who amongst our membership has been in and around the pool trade the longest.

Just send an email to [ross@ispe.co.uk](mailto:ross@ispe.co.uk) with the title "I'm the longest" and give a few details. We'll get a list together in the January issue and see if we can find a prize for the winner.

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## New Members and Students

We extend a very warm welcome to those that have recently joined (or re-joined) the Institute of Swimming Pool Engineers. If you have a colleague who would like more information about the Institute and our activities please email [ross@ispe.co.uk](mailto:ross@ispe.co.uk), or telephone 01603 499959 for a full information pack or see [www.ispe.co.uk](http://www.ispe.co.uk) for more details.

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# Got Any Jobs, Mate?

*(Actual email correspondence -  
useful guidance for all those in a similar situation, perhaps?)*

Dear ISPE,

*I am looking to get into the pool trade. Can you offer any advice or suggestions?  
Many thanks,  
Brian.*

Dear Brian,

Thank you for your enquiry.

You only have to look at the ISPE website ([www.ispe.co.uk](http://www.ispe.co.uk)) under 'Situations Vacant' to see how many companies are calling for pool engineers. Whilst most of those are for experienced engineers, there are one or two for labourers and maybe to get your foot inside the door of a company, that might be one place to start.

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We offer a Home Study Course covering the basics of Filtration, Chemicals, Heating and Construction and this is aimed at those new to the trade. Many companies put their new staff through the course to give them that basic grounding.

Whilst not part of the course outlined above, we can provide plenty of technical publications too, such as 'Wilson's Words of Wisdom' - a must-read for all those on the commercial side, the PWTAG book - 'Swimming Pool Water' and about twelve ISPE Technical Papers on a variety of subjects from Heat Pumps, to Comprehensive Water Testing and many more.

Whilst the ISPE are mainly concerned with domestic pools, we do offer ISPE-endorsed Pool Plant Operator training for those on the commercial side of the trade (leisure centres, hotels, clubs, schools, and in fact any pool that isn't a domestic one in a private garden).

We are also just starting to introduce a number of industry-wide product training sessions in the Autumn and Winter and more details will be on our website soon under 'CPD Training'.

I am attaching the ISPE information booklet which gives more details of the ISPE Home Study Course, plus a fees list and a student registration form. See the information on our seminars and

the ISPE Filtration Workshop in the booklet. Seminars are held between October and March and more details of the next ones will be on our website under diary dates about six weeks before each event.

If you would like hard copies of these attachments, together with a couple of recent ISPE Magazines, so you can see more about some of our activities, then just email us your postal address.

Finally for now, I would suggest you look at [www.spatex.co.uk](http://www.spatex.co.uk). SPATEX 2017 (to be held from Tuesday 31st January to Thursday 2nd February, at the Ericsson Exhibition Hall, The Ricoh Arena, Coventry) is a must for all those in the pool and spa trade or those looking to get in. Most of the companies, suppliers, wholesalers and people of the trade will be there. The ISPE have a stand there when you can meet us and see our books and other things such as the latest seminar programme, but more importantly we run a series of free-to-enter generic, non-product specific (not sales pitches) workshops on a whole range of pool and spa-related topics all lasting 20-30 minutes.

This would be an excellent place to see some of the equipment and meet those in the trade. The programme will be on the SPATEX website by the Autumn, but you can see lots more about the exhibition there already.

I hope this helps, but do give us a call if you have any queries. Best regards,  
Ross Alcock - General Secretary  
ISPE - Tel. 01603 499959.

## Thank You for Your Payment... and a Request

We are most grateful to all those who have paid, or have requested that their companies pay, their ISPE annual subscriptions so promptly this year.

More and more payments are being made on-line straight into our bank account and that's great but many payments are being received into the ISPE bank account showing no invoice number or name, or worse still, an incorrect or previous year's invoice number. This is making it very difficult to work out who the payment relates to.

Therefore, if you have any opportunity to influence the inner workings of your company's accounts office, please ask the person who kindly pays your ISPE invoice to include the current invoice number as a reference and/or (and particularly in the case of multiple payments) email a remittance advice to us ([ross@ispe.co.uk](mailto:ross@ispe.co.uk)).

Many thanks for your help with this.

### Apology

ISPE Fellow Graham Kneale emailed us after seeing the June ISPE Magazine noticing we had listed him as 'MISPE' and not, as it should have been, 'FISPE'. Well spotted, and apologies for this slip of the fingers. We have assured Graham that he should continue to wear his Fellow's silver ISPE lapel badge with pride!

## Situations Vacant - Summary

For full details of the positions summarised below and for the latest vacancies in the pool and spa industry, please see the Situations Vacant section of the ISPE website ([www.ispe.co.uk](http://www.ispe.co.uk)), telephone the office (01603 499959) or email [ross@ispe.co.uk](mailto:ross@ispe.co.uk) and we will forward the full advert to you. *Please note, this is a free service to ISPE Members and their companies. Please let us know if a vacancy has been filled.*

### Installation and Maintenance Engineers

Waterscapes Ltd. Surrey/London area.  
\*\*\*\*\*

### Experienced Service Technician

London Swimming Pool Company - London/South East.  
\*\*\*\*\*

### Experienced Service Engineer

Speedfix Pools Limited - Based in Preston.  
\*\*\*\*\*

### Experienced Swimming Pool Engineer and Experienced/Trainee Swimming Pool Valet

ClearWater Marine Group - London/Surrounding Counties  
\*\*\*\*\*

### Swimming Pool Engineers and Swimming Pool Electrical Engineer

Guncast Swimming Pools - South East.  
\*\*\*\*\*

### CAD Designer and Swimming Pool Engineer

Aqua Platinum Projects - Hampshire-based.  
\*\*\*\*\*

### IMPORTANT NOTICE TO ALL ISPE STUDENTS

The 2017 ISPE Student Exams will be held on Monday 27<sup>th</sup> March, 2017, at the Watermill Hotel, Bourne End, Near Hemel Hempstead, Hertfordshire, from 1.30pm until about 5.00pm.

**ALL paid-up students** will receive a letter with booking form in mid-February. Anyone wishing to sit the exams in 2017 **must respond to that letter** and return the booking form (either with payment or requesting an invoice to be emailed by ticking the appropriate box). If we do not receive the booking form, exam places will not be reserved. If you have not received your exam letter by Monday 20<sup>th</sup> February contact us immediately. Mock exams will be emailed, on request, during December by contacting [ross@ispe.co.uk](mailto:ross@ispe.co.uk) or telephoning 01603 499959. Those re-sitting subjects will also need to respond to the letter in February. Those students not wishing to sit the exams in 2017 may ignore the letter.

**NEXT ISSUE** - The next issue of the ISPE Magazine will be sent out in late-January. All copy for articles and new adverts is required before Christmas, please. As this is the 'Show' issue it is a great opportunity for extra free publicity as we have more copies printed to hand out to visitors to the ISPE Stand. Don't miss out!



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