



- ***SPATEX - 2022***
- ***Getting Back to Normal***
- ***More Model Answers (Heating)***



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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 Story

We are pleased to present our recently completed project at Ancaster House. This is one of the most technically complex pools that we have constructed in recent years and was awarded 'Outstanding Pool of the Year' at the 2021 SPATA design awards.



The pool was constructed as part of a major renovation 2 floors underground in the centre of London's busy Mayfair district. This posed a huge logistical problem, starting with the delivery of materials including over 70 tonnes of concrete to site. The biggest issue concerned the huge piece of laminated glass that is used to divide the pool and spa areas. At 3.8m long and weighing over 300kg, this was the largest single piece of material to be used in the refurbishment of this 45,000 square foot property. The piece was too large to manoeuvre through the house or to fit in the goods lift and therefore had to be hoisted down 2 floors through a car lift from where it was 'swung' into the building at sub-basement level.

The basin itself is an extremely complex shape with shallow areas, stepping stones,

kited steps, a spa, day beds and a concealed cover cave. Our client would not tolerate cut mosaics and each one of the 97 individual surfaces therefore had to be designed, constructed and finished to suit perfect 25mm modules. Under-lit steps were also an architectural requirement and this detail was achieved using an arrangement of bespoke stainless steel riser plates and underwater LED strips.

In the plantroom, we used an additional filter to bring the filtration rate down to commercial standards, whilst maintaining a 5 hour turnover. Combining this improved filtration with AOP and a small chlorine residual has been very successful.

Elsewhere on the project we installed a circular cold plunge pool with waterfall, an ice station, sauna, steamroom and two experience showers.

Air quality is handled by a conventional air handling unit with delivery and return air diffusers positioned discretely in the ceiling coffers. A scentstream system injects aromatic essence into the return ducts which helps to create a pleasing ambience in the pool hall.

The project has attracted a large amount of publicity, including articles in most of the national papers and also featured in the Channel 4 documentary 'Britain's Most Expensive Home : Building For A Billionaire (2020)'.

With thanks to Mick Guthrie, MISPE  
[www.whitewaters.co.uk](http://www.whitewaters.co.uk)

## Editorial

As I write this it's already 25°C at 9.00 am on a June morning. It's getting hotter! This is after probably the driest April and the wettest May for years, and all this whilst the early/mid stages of the 'lockdown release' are happening. By the time you read this, we will know if the full lockdown, scheduled for 21<sup>st</sup> June, actually happened (an announcement is being made in four days' time on 14<sup>th</sup> June).

Now, if all has gone to plan and everyone is partying, going abroad and hugging people in the street, with not a mask in sight, then many of you will be asking what the Institute is doing about the 2021 student exams, postponed in March to some time in the Autumn. A good question. We need about six weeks to set the exams up so we will be looking at a date in late September, probably Monday 27<sup>th</sup>. We will confirm this date as soon as we can and once we know that there is unlikely to be any further lockdowns. We hope to make a firm announcement by the second week of August and all students will receive a letter inviting them to sit the exams. Just before the exams we hope to present an ISPE Back-to-Basics/Revision seminar, aimed at (and free of charge to) those actively studying the ISPE Home Study Course, but open to all others for a small charge. See page 31 for more details or contact the ISPE office to register your interest. We hope to present an ISPE Seminar and the ISPE Filtration Workshop too, all before December - more details will follow a.s.a.p.

This is all assuming the lockdown release actually happens! Of course, if it doesn't then all the above can be disregarded and we will continue to wait for further announcements and normal service will resume as and when we are able to.

In the meantime, I hope the Summer is long and profitable for all of you. Keep busy! **Ross Alcock - June 2021.**

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## 'Model' Answers for ISPE Heating Exam

We have often published 'model' answers for the section A questions in the ISPE Magazine but here we present a few sample answers for some section B questions which those studying the course may find useful. With thanks to John Scott, FISPE. The next exams will be in September, hopefully, and we will let everyone know about six weeks beforehand.

**B1 The following three pools have exactly the same capacity. Explain why the heat losses from each pool are not the same. a) A steel walled above ground pool, b) A large paddling pool, c) A deep diving pool.**

Heat losses for the 3 given pool styles will be significantly different for the following reasons.

a) Steel walled above ground pool:

Assuming conventional sizes and dimensions the above ground pool will not enjoy the same amount of insulation effect to the side walls that the other pools will benefit from. The fact that the walls are a good conductor, metal, will enhance the proportion of heat that is lost through the walls.

In practical operational terms it could be argued that the means of accessing the above ground pool will mean that more splash water is likely to be lost, and that it is virtually impossible for this splash water to re-enter the pool, so more cold water make up is required.

Again in practical terms, this budget style of pool tends to be used by a large number of people per square metre, again suggesting greater water loss through splashing and cold water make up.

b) Large paddling pools:

Compared with a conventionally proportioned above ground pool the paddling pool has a very large surface area. This means that the relative heat loss through evaporation from the surface will be very much higher.

Conversely in good sunny weather it will also mean that the paddling pool will be heated up far more effectively by available solar gains.

In practical terms the paddling pool is likely to be used by far more swimmers and this will increase significantly the water splash loss especially since the users of the paddling pool are likely to be less experienced swimmers.



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The filtration demands of the paddling pool also means that the backwashing requirement will probably be more frequent, again meaning a greater heat loss associated with make up water.

Paddling pools, normally being used for toddlers, will usually be maintained at a higher temperature which would also increase the likely evaporation and hence heat loss.

c) The deep diving pool: This will have a far lower relative surface area than the other pools and would therefore normally have a much lower total heat loss from the same volume of water. However this statement will rely upon the ground around the pool being relatively low conductivity and a low water table.

In practical terms the deep diving pool will have far less splash loss and would have a far lower bather load. Both of which would mean a smaller degree of make-up water due to a lower need for replacing "splash-out" and less frequent filter back washing.

Diving pools are often maintained at a lower temperature which again would reduce water loss and heat loss through evaporation.

**B2 You are asked to survey a commercial outdoor pool to assess the size of heating plant required. List the items which should be considered when evaluating the correct boiler size as well as the questions you would ask the client.**

There are a great number of factors to be considered when assessing an outdoor commercial pool for heating. These would include the following:-

- a) Pool surface area

- b) Pool depth and with item a) the pool water volume
- c) Pool underground structure
- d) Whether insulation has been used around the pool
- e) Whether there is a high or low water table around the pool
- f) If a high water table exists, is it moving?
- g) Is the site exposed to winds or shaded?
- h) Is the pool shaded by overhanging trees or structures?
- i) The pool orientation in respect of shadowing structures
- j) Will a pool cover be used?
- k) How often will the pool cover be in place?
- l) Is the cover a thermal / solar variety?
- m) Will an enclosure of any sort be placed over the pool?
- n) What pool temperature is required?
- o) What is the required length of season?
- p) Related to the above, what will be the lowest external temperatures expected during the swimming season?
- q) How many hourly / daily bathers are expected?
- r) What is the size of the filtration equipment?
- s) How many hours a day will the heating equipment be allowed to run?
- t) How many hours a day will the filtration be allowed to run?
- u) Does the site have cheap rate electricity or other factors (such as noise issues) that determine preferred run hours?
- v) How far is the existing plant from the pool or the required site of the heating system?

- w) What fuels are available for heating?
- x) What is the available capacity on those heat sources?
- y) What is the unit cost of those heat sources?
- z) Are there acceptable sites available for the additional heating plant?
- aa) Is there any spare capacity on any existing heating systems?
- bb) Will an existing system be able to handle the pool heat losses, if its current load is reduced (due to summer time pool operation perhaps)?
- cc) Are there any viable sources of waste heat, perhaps a heat pump in a hot greenhouse or similar?

**B3 Explain in brief terms how an air to water heat pump operates. List the factors which must be considered prior to installation.**

An air to water heat pump operates by extracting heat from the ambient air, and “upgrading” this to a condition that can be used for pool heating.

Heat normally moves from an area of high temperature, to an area of low temperature. Much the same as pumps are used to move water “uphill” and against the normal effect of gravity, heat pumps are used to move heat in the opposite direction to normal and hence something cold can be used to heat something warm.

Heat pumps operate using the refrigeration cycle and four major components are fundamental to all refrigeration circuits.

These components are

- 1) The compressor
- 2) The expansion valve
- 3) The evaporator
- 4) The condenser

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The compressor sucks gas from the evaporator and in reducing the pressure in the evaporator it forces the refrigerant to evaporate inside this heat exchanger. The evaporation can only take place by extracting heat from the evaporator and that makes it become cold. To prevent it becoming too cold a forced air fan will blow fresh atmospheric air over the evaporator and this will enable the evaporator to keep relatively warm and keep a constant supply of heat available to the refrigeration circuit.

The cold gas that has been extracted from the evaporator is passed through the compressor which increases the gas pressure and temperature significantly. This hot gas is then passed into the condenser and this takes the form of another heat exchanger. The condenser has pool water flowing through it and the hot refrigerant gas heats the pool water. By heating the pool water the refrigerant gas becomes cooler and at a slightly lower pressure.

The cooled lower pressure gas then passes through the expansion valve and this results in a significant reduction in pressure. That pressure reduction also results in a significant drop in temperature and the low temperature refrigerant passes back through the evaporator where the ambient air re-heats it, assisted by the forced air fan.

The process then continues until the pool water is warm enough and the thermostat turns off the heat pump.

For a heat pump to operate effectively its most fundamental requirement is a plentiful flow of the warmest air available. To ensure this the unit should be placed

outdoors where fresh air will be available.

It should be placed away from walls and shrubbery that may affect air flow now, or in the future. If they have to be placed in plant areas then the cold discharge air should exit the plant room directly from the heat pump outlet and the plant room must have generous air inlet louvers.

Ideally they should be placed in direct sunlight, or areas that enjoy a great exposure to sunshine. They should be located where they can easily be maintained and cleaned.

They should be placed with easy access to the filtration pipework. They should be installed before any chemical dosing introduction. Since heat pumps can consume large quantities of electricity the power supply cables must be adequate.

**The ISPE Home Study Course is ideal for those new to the pool industry or those who wish to broaden their basic knowledge.**

The course consists of four sections; Filtration, Heating Construction and Chemicals (Water Treatment) and is extremely flexible as students may enrol at any time of the year and from any background.

Exams are held once each year and student sit the exams when they are ready; there's no set time limit. Those who pass in all four subjects become 'ISPE Certified Technicians' and may place the letters TnISPE(Cert.) after their names on business or personal stationery

ISPE Technicians are eligible to apply for a blue 'Swimming Pool Installer' CSCS card (subject to completing the required H & S test). For more details on the ISPE Home Study Course, contact [ross@ispe.co.uk](mailto:ross@ispe.co.uk) or telephone 01603 499959

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## SPATEX 2022 - same place, new name!

**When SPATEX 2022 returns from Tuesday 1<sup>st</sup> to Thursday 3<sup>rd</sup> February 2022, to a much-anticipated live event, Coventry will once again play host. But there's some major changes afoot as the Ricoh Arena, the show's home for the past eight years, will boast a swanky £10 million facelift and brandish the new title of the Coventry Building Society Arena.**

The news that SPATEX, the UK's annual water leisure exhibition, is returning next year to a live event has received a massive industry thumbs up. It follows February's COVID 19-safe SPATEX virtual event which, though deemed successful, demonstrated that nothing beats doing business face-to-face.

Such has been the industry's enthusiastic response to the news, that over 70 per cent of exhibitor space has already been sold – some seven months ahead of the show opening.

Clocking up 23 years at the helm, SPATEX Organiser, Michele Bridle, says: "We are delighted to have received such overwhelming support for the staging of this extra-special live edition. We aim to make it a celebration – the first time the industry will be together *en masse* in two years and under one roof. We can't wait!"

### **Coventry – where it's at in 2022!**

Some notable surprises are in store, for both exhibitors and visitors alike, when SPATEX 2022 opens its doors next February. The most immediate will be a change in name - from this summer the Ricoh Arena will be known as the Coventry Building Society Arena, after Coventry Building Society agreed a long-term deal with the venue's owners, Wasps Group. The new branding will be prominent inside and outside the stadium, which is the home of both Wasps Rugby and Wasps Netball.

The major sponsorship agreement comes as Coventry is on the brink of becoming one of the most-happening cities in the UK. With Birmingham 2022 staging the Commonwealth Games from 28<sup>th</sup> July – 8<sup>th</sup> August, all eyes will be on the Coventry Building Society Arena when it proudly plays host to three major sports - rugby sevens, judo and wrestling. Taking its name from the Games, the Commonwealth Convention Centre will be built in Coventry Building Society's lower halls on the south side of the venue and provide visitors with more than 8,000 square metres of impressive conference and exhibition space.

Much of SPATEX's business is often continued, or conducted, outside the exhibition hall so the addition of a new sports bar - part of the venue's major £10 million refurbishment plans - will be welcome news, both to exhibitors and visitors. The state-of-the-art sports bar will be immediately obvious upon arrival as it is to be located by the front door to the complex. Catering for up to 160 covers at a time, it will boast an array of TVs including wall-sized screens as well as interactive games such as table football. A double-sided bar will serve a range of craft beers, cocktails and soft drinks, with plenty of tables for group gatherings.

Coventry has also fought off many contenders to win the much-coveted title of UK City of Culture from May 2021 to May 2022, making the city a major player on both the national and international stage. Whether exhibiting or visiting, SPATEX 2022 invites you to be part of the action.

**Please get in touch with the SPATEX team to book exhibition space -**

**Michele ([michele@spatex.co.uk](mailto:michele@spatex.co.uk));**

**Helen ([helen@spatex.co.uk](mailto:helen@spatex.co.uk))**

**Tel: +44 (0) 1264 358 558.**

**For more information: [www.spatex.co.uk](http://www.spatex.co.uk)**

## 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](mailto:ross@ispe.co.uk) or telephone 01603 499959 for more details.

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## Product Profile

The ideal partner for Above Ground pools



New for 2021, Plastica have added a new heat pump to their product range, which is ideal for the Above Ground pool market. The aptly named AG Mini is the ideal choice for heating above ground pools with the ability to heat pools up to a volume of 20 cubic metres of water.



They are light, weighing an incredible 23kg, and easy to install, supplied as totally plug and play with an inline RCD breaker. Being so compact makes it easy to find a suitable outside position to site the unit to give maximum efficiency especially with the whisper quiet <56db at 1m noise emission. The AG Mini is supplied with 1" connections and there is a conversion kit available to connect to 1.5". You will get up to 2.9kW of Rated Heating Capacity for input power of only 0.59kW having an impressive COP (Coefficient of Performance) of 4.9, saving up to 80% compared to a standard electric heater.

Visit Plastica's website to find out more at [www.plasticapools.net](http://www.plasticapools.net)

A promotional graphic for the AG Mini Heat Pump. It features a large image of the unit on the left, set against a green background with a water ripple effect at the bottom. On the right, the text reads 'AG MINI HEAT PUMP' in large white letters, followed by 'AG Mini are the ideal choice for heating above ground pools up to 20 cubic metres'. A red circular badge says 'New for 2021'. At the bottom left are social media icons for Facebook, Twitter, LinkedIn, Instagram, and YouTube. At the bottom right is the Plastica logo and contact information: 'The UK's Leading Independent Swimming Pool Manufacturer and Distributor', phone number 01424 857802, email orders@plasticapools.net, and website www.plasticapools.net.

**AG MINI HEAT PUMP**

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## Product Profile - OC-1 Filtration Media

**'The obvious choice for your next installation'**

For new filter installations, an OC-1 filter is the obvious choice. Available exclusively in the UK from Certikin there are a range of filters available that come supplied complete with the lightweight OC-1 media. The filters are specially designed to work in perfect harmony with OC-1 and complement the amazing advantages OC-1 can provide.



Unlike traditional methods that use entrapment, OC-1 Filtration Media works through settlement which means that the debris settles within the cells of OC-1 throughout the entire bed rather than being trapped on top of the media. This British manufactured filtration media has some exceptional benefits - by replacing commonly used media such as sand and glass with OC-1 it is possible to reduce the head loss in the filtration system, filter with a constant flow and, most remarkably, significantly reduce

running energy costs whilst still filtering to the equivalent standard, as it can be used with a smaller pump, a variable speed pump or inverter.



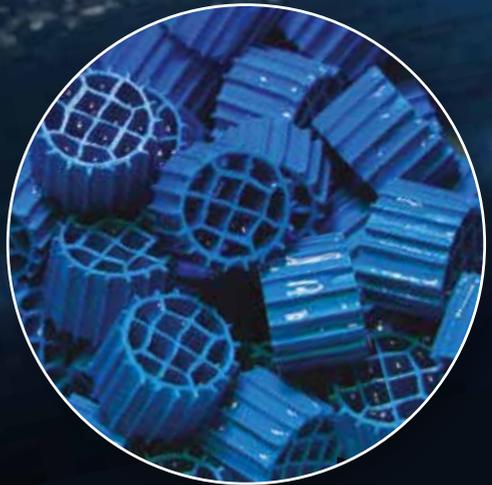
As well as being popular across domestic installations, OC-1 Media also excels in the commercial sector. The Certikin SLX range of commercial filters are the workhorse of a commercial pool and with a wide range covering sizes from 1.05m through to 3.00m, and options for laterals and nozzles with various pressure ranges and accessories, any pool can be catered for. The standard SLX lateral version comes at 2.5 bar rating with commercial laser cut 50mm laterals making them robust for the commercial environment and all backed up with a 10-year warranty. Potential savings in running costs come from the ability to reduce pump speeds and reduce backwashing. Add to that the advantage for new installations of the filter arriving with the media already installed and you can see that OC-1 is the obvious choice for the commercial application.

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# “Stay Out of Jail”

By Howard Gosling, BSc, FISPE

## THE CARRIAGE OF DANGEROUS GOODS AND USE OF TRANSPORTABLE PRESSURE EQUIPMENT (AMENDMENT) (EU EXIT) REGULATIONS 2020

UK Legislation controlling Dangerous Goods began with the Petroleum Act 1879 and subsequently the Petroleum Consolidation Act (1928).

In 1999, various Amendments were made but the most significant change was that of the appointment of Dangerous Goods Safety Advisor Regulations. This was European (but not EU) legislation, although the UK was a Member of the EU when the basic ADR legislation came into force on 10<sup>th</sup> May 2004 and this was substantially restructured in 2007. The HSE is one of the Enforcement Authorities.

There is a UN Committee of Experts, and their recommendations are contained in the so-called “Orange Book” and covers the classification, packaging and labelling of Dangerous Goods for Transport by Road, Rail, Sea and Air.

When you transport Dangerous Goods you need training and may need a licence for both the driver and the vehicle. Moreover, if you are transporting waste, you may also need a Waste Transporter’s Licence.

New GB Legislation - The Carriage of Dangerous Goods and the Use of Transportable Pressure Equipment (Amendment) (EU Exit) Regulations 2020 were issued on 16<sup>th</sup> October 2020. It is UK Statutory Instrument 2020 1111.

Printed copies of this legislation can be obtained from the

Stationery Office Ltd, PO Box 29, Norwich, NR3 1GN.

### **Do you know how Dangerous Goods are defined?**

The answer is that you have to look at the Safety Data Sheet, Section 14. The Safety Data Sheet used to be called a Material Safety Data Sheet and you should have one of these for every chemical that you handle, including products such as test tablets. Indeed, for the test tablets you must have the Safety Data Sheets that relates to the test tablets that you use for each of the test kits that you supply and stock, because not all test tablets are the same. They need to be the test tablets for each specific manufacturer’s test kit. If it is not the same manufacturer’s test tablets, the test results will not be correct. Speak to your test kit supplier and make sure you have the correct Safety Data Sheet.

Over the past decade, we have been governed in the UK by the Carriage of Dangerous Goods Regulations 2009 and the Amendments that were issued in 2011. These were not terribly straightforward to read but the basic reference is to ADR as well as EU legislation. Now these have been superseded by the EU Exit Regulations 2020 and have become The Carriage of Dangerous Goods and the Use of Transportable Pressure Equipment (Amendment) (EU Exit) Regulations 2020.

People ask what ADR stands for:-

**Accord europeen relatif au transport  
international des marchandises  
dangereuse par route**

People keep asking what difference Brexit will make and at the 23<sup>rd</sup> Department of Transport Annual Dangerous Goods Seminar in June 2019, we found out! There is a completely new set of Dangerous Goods Regulations issued which will no longer make any reference to the EU, but they will still refer to ADR which is far more than just EU, being some 49 countries.

Currently, ADR 2021 Volumes I and II are readily available free of charge on the internet but before you press the print button, be aware that ADR Volume I is 646 pages and ADR Volume II is a further 628 pages. It is much easier to buy the books complete but if you attend a training programme you can probably avoid that expense because a good training course can demonstrate to you how to avoid many of the Regulations that apply.

However, ADR (Chapter 1.3) Training of persons involved in the carriage of Dangerous Goods is detailed and covers three main areas, General Awareness Training (1.3.2.1) which requires personnel to be familiar with the general requirements of the provisions for the Carriage of Dangerous Goods by Road. Function Specific Training (1.3.2.2) which says that personnel should be trained commensurate directly with their duties and responsibilities in the requirements of the Regulations concerning the Carriage of Dangerous Goods and where the Carriage of Dangerous Goods involves a multi-model

operation, the personnel should be aware of the Requirements concerning other transport modes. That means that if you normally ship by road, but there is a ferry journey involved such as to the Isle of Wight or to one of the Scottish Islands then you have to have some additional training in that as well (IMDG).

Safety Training (1.3.2.3) must be commensurate with the degree of risk of injury or exposure arising from an incident involving the Carriage of Dangerous Goods including loading and unloading. Personnel should be trained in the hazards and dangers presented by Dangerous Goods. The training provided "shall aim to make personnel aware of the safe handling and emergency response procedures". Moreover, 1.3.2.4 requires the training shall be periodically supplemented with "refresher training" to take account of

The advertisement for AquaFlex features a background image of a swimming pool with a house in the background. At the top, three service categories are listed: "Pool Liners", "Solar & Winter Covers", and "On-Site Lining". The company name "AQUAFLEX" is prominently displayed in large, blue, serif capital letters with a wavy orange underline. Below the name, the text "The UK's leading Liner specialists" is written in a smaller blue font. At the bottom, contact information is provided: "AquaFlex Limited", "1 Edison Road, Churchfields Industrial Estate, Salisbury, Wiltshire, SP2 7NU". Social media icons for Facebook and Twitter are also present. Contact details include "Tel: 01722 328 873", "Fax: 01722 413 068", and the website "www.aquaflex.co.uk".

changes in Regulations, so it is not a once and for all thing. There is also a requirement for “security training”, and elements of “security awareness” have to be included in the Dangerous Goods training. Training Certificates last 5 years maximum.

Documentation (1.3.3) records of training received according to Chapter 1.3 shall be kept by the employer and made available to the employee or competent authority upon request. Records should be kept by the employer for a period of time established by the competent authority, in the UK that is five years. Records of training should be verified on commencing a new employment. You are not allowed to take up employment until such time as you have been trained if your work involves Dangerous Goods.

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At the Department for Transport update Seminar in June 2018, there was considerable mention of the penalties which are currently imposed on mainland Europe for transgressions in terms of goods being sent out incorrectly labelled (a fine in Holland of 300 Euros), or being wrongly loaded on a vehicle (fine of 700 Euros) and there is a move to have these sort of penalties imposed in the UK also.

There is a whole new gambit of labels that have been introduced in the last couple of years, as well as changes to the nomenclature of chemical (CLP Regulations). These names are mainly as a result of the Global Harmonisation System Regulations. The new labels are shown in a very useful leaflet from the HSE book, Read the Label, reference ISBN 978 07176 6414 6 where you can get a web version or a single copy free, but you have to pay for these in bulk. This leaflet explains what the labels mean. Some chemicals are Dangerous but without reaching the criteria of ADR as being Dangerous for Road Transport. Only the latter are covered by the Carriage of Dangerous Goods Regulations (CGD) and ADR.

The Explosive Precursor Regulations were updated on 1<sup>st</sup> July 2018 and that means that sulphuric acid above 15% w/w (weight by weight) is now governed for sale to private individuals in the same way that hydrogen peroxide above 12% has been since 2015 and requires an EPP Licence (Explosive Precursor & Poisons (e.g. oxalic acid above 10% w/w.)). A more recent addition to the Reportable Substances (poisons) list is Hydrochloric acid above 10% w/w.

Businesses who sell or supply such chemicals MUST report suspicious transactions and significant losses or thefts by phone to 0800 789321 or email [chemical.reporting@metpolice.uk](mailto:chemical.reporting@metpolice.uk) Failure to report can result in a fine and/or imprisonment.

For the swimming or spa pool engineer carrying a few chemicals on their van, the essential thing is that they have to have a certificate showing that they has been trained, and the certificate should explain exactly what they have been trained in. This may well include exemptions from ADR, what is meant by Limited Quantities and new identification labels as well as training in how to calculate Small Load Limits and understanding Instructions in Writing.

A fire extinguisher (2kg dry powder) is required in any vehicle carrying Dangerous Goods to deal with an engine fire.

The new ADR 2021 came into effect on 1<sup>st</sup> January 2021 but there is then a six month period when one can still apply ADR 2019 - to the end of June 2021 when it then becomes definite that one has to apply ADR 2021.

If in your despatch department, you still have the Royal Mail and Parcelforce list of Prohibited and Restricted Items, A guide to what you can and cannot send in the mail, which was valid from 15<sup>th</sup> July 2013, you can now throw that away because it is out-of-date. The new Regulations were announced and came into effect on 30<sup>th</sup> January 2017. It should be appreciated that Royal Mail is not a Dangerous Goods carrier. The internet companies selling for example, a 200g Tri-Chlor tablet in a jiffy bag are breaking the law. They should be

reported and if you email me with details, I can pass it on to the appropriate person at Royal Mail.

Not only are there the Explosive Precursors Regulations 2018 but there is also security awareness and terrorism checks and these are supplemented by the Police and VCA (Vehicle Certification Agency) which took over from VOSA (Vehicle and Operator Services Agency) who will carry out roadside checks on a quarterly basis automatically as well as people's premises throughout the year.

Training courses for anyone involved in Dangerous Goods are held by the author around the UK or they can be held at your premises, and inform you how to stay out of jail. Email your interest to: [alex@poolandspaadvice.co.uk](mailto:alex@poolandspaadvice.co.uk).

Remember, Dangerous Goods include Adhesives, as well as Aerosols and Gases. Check your Safety Data Sheet! Is there a UN Number in section 14?

A new website Dangerous Pool and Spa Chemicals with its own email address is being set up to collect details of the chemicals sold in the pool and spa industry.

**Howard Gosling, June 2021**

### **Next ISPE Magazine**

The next issue will be out in early October and will include more details about SPATEX 2022, including the programme of ISPE workshops.

We welcome any of your project pictures and stories & technical articles, together with company or product profiles.

To get your story in front of 800+ ISPE members and other readers, contact [ross@ispe.co.uk](mailto:ross@ispe.co.uk) to discuss your requirements.

## Plan Ahead!

Dear Sir,

The Norfolk Eastern Daily Press (the EDP) recently reported that the local Council required a couple in a north Norfolk village to remove a two storey building that had exceeded the size approved in planning permission but to remove and infill a swimming pool, too.

*"The notice states that the development is "materially different" to that approved by planning permission, and of "increased scale, height and mass". It adds that, without planning permission, a two-storey replacement dwelling and detached annexe was erected, plus a swimming pool and an area of hardstanding. The owners must demolish the two-storey dwelling/studio/annexe, and permanently remove the swimming pool and infill, within nine months of September 3, the date the notice takes effect, unless an appeal is made against it."*

I thought planning permission was not required for a swimming pool. I accept that it doesn't make it clear whether the pool was inside the building or outdoors, and that may be the issue?

**ISPE Past-President Ian Betts, FISPE, replied as follows:**

You are correct in thinking that an outdoor pool situated at some distance from the main property does not require planning permission.

However, in this case, as the property has not been erected in accordance with the original permission and therefore the pool is also not covered by the permission,

even if it was shown on the original application. If the property had been constructed as per the original permission then the pool would 'most probably' been within permitted development providing that there was no restriction on permitted development in the original permission and that it is located within the curtilage of the property and does not exceed the allowable percentage of the available area (50% of the available garden area).

The permitted development only applies to existing properties so it is very complicated unless the original planning application showed the proposed pool.

**Ian Betts BSc CEng MICE FISPE  
MCIWEM C.WEM MCIM  
Pool Consult - Professional  
Swimming Pool & Associated  
Works Consultants -  
www.poolconsult.co.uk**

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## **The Disabled Photographers' Society**

Some time ago we included a request from retired ISPE Member, John Taylor, for readers to donate any unwanted camera equipment, via him, to the Disabled Photographers' Society.

John recently sent a note thanking all those who kindly responded and he said that the response was so good (from ISPE members and elsewhere) that he now has an excess of screens, slide carousels and books which he will make available for a small donation to the Society. If anyone is interested please contact John on 01926 854456.

## Project Profile

### The Emerald Isle falls for Certikin

When the spotlight fell on the completion of the £25 million world-class Andersonstown Leisure Centre project in west Belfast, the focus was on its six-lane pool and its three huge water slides. Less glamorous, but nonetheless vital to its success, is the plantroom - the workhorse which houses Certikin's filtration and water treatment systems installed by Northern Ireland pool contractor, Oak Creative Water Engineering Ltd.



Ranking as the biggest project in Belfast City Council's £105 million multi-centred Leisure Transformation Programme, the Andersonstown Leisure Centre is an impressive

facility by anyone's standards. Eighteen months in construction, the £25 million cutting edge project, was created for maximum family fun and, as such, includes a 25m six lane pool with 50 spectator seats; a teaching pool; a water confidence pool for small children and toddlers plus a splash pool.



The WOW factor is supplied via three high speed water slides. Visible on the exterior of the redeveloped site on the Andersonstown Road, the three jaw-dropping features comprise The Abyss – a drop slide where riders enter a capsule and prepare to be plunged into a literal abyss, with the floor disappearing below their feet. The Torrent – a slalom slide where

Engineering Excellence

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Unit 1, Shannon Commercial Centre, New Malden KT3 4PT

riders in singles or pairs twist and turn on inflatable rings and lastly, the hair-raising Vortex – a body slide taking riders to the bottom via terrifying twists and turns at high speeds. If that's not enough, there's also an exhilarating indoor surf simulator for those who want to learn to surf before trying it for real in the sea.

Heavily used, high energy facilities like this naturally demand a premium quality, dependable and super robust filtration system. The project's contractor Heron Bros appointed Newtownabbey pool contractor, Oak who, as long-standing customers of Certikin, selected nine heavy-duty SLX commercial filters to do the vital job of maintaining crystal clear sanitised water: two TLX 100, two TLX 1800, two TLX 1400 and three TLX 600 were duly installed.

Oak's Linda Bell says: "We have always found Certikin totally reliable with a service back-up second to none. If we encounter any problems we know we can turn to Certikin to provide support and advice. That's priceless peace of mind, especially when it comes to a high-profile, prestigious installation like Andersonstown."

Oak also installed Certikin's Accu-Tab calcium hypochlorite system which, says Linda: "We consider to be a perfect water treatment system for a sizeable installation like this. It is very safe for staff, reduces maintenance and is very reliable. The beauty of Accu-Tab is that it can cope with any bathing workload – from a small hospital hydrotherapy pool to a 50-metre Olympic pool."

To cope with the needs of the 25m pool and three learner pools,

Oak installed an Accu-Tab 3075 Power Base chlorination unit. The system consists of a PVC base, 4ft by 2ft, with a 20-gallon polyethylene tank mounted on the base. The Accu-Tab dry tablet chlorinator, holding 25kg Accu-Tab tablets is mounted on the specially designed tank. The tank has built in level switches and is connected to a special Burkert solenoid valve, all of which is operated on 24 volts which is very safe. The system is wired to the chemical controller, which also controls a Lowara 240 volt, booster pump. All the electrical controls are wall mounted at eye level for ease of access and the whole system is corrosion resistant.



Linda adds: "Accu-Tab saves such a huge amount of staff time. The duty manager simply has to refill the chlorinator with the large 3-inch Accu-Tabs, which take about 10 minutes a day - a very clean procedure. It eliminates all hazards, blockages are non-existent and it is very economical! With no corrosion on the system, no chlorine dust, no overflowing of chemicals, no bund, no mixing tanks and equipment, no injectors to block, no metering

pumps to default, no hoses to block/burst or blow off, no danger of chemical splashes - using Accu-Tab really is a no brainer and the water quality is superb!"

GLL, the social enterprise that operates Better Leisure facilities on behalf of Belfast City Council, say the centre is on a scale "never seen before in the city". Gareth Kirk, GLL's Regional Director for Belfast adds: "While these are challenging times, we are confident that the Covid-safe measures we have in place will mean that everyone can have a safe and enjoyable visit."

## **Product Profile**

### **Accu-Tab – the clear solution**

The Accu-Tab system is an ultra-simple, ultra-reliable, pool chlorination system that can be used for numerous applications with any automatic controller.

### **Safe and simple**

It's an excellent alternative to sodium hypochlorite and chlorine gas. Accu-Tab 3-inch calcium hypochlorite tablets are shipped in convenient 25kg pails, easy to store, handle and have a long shelf life. The system doesn't require special containment measures or elaborate safety equipment.

### **Accurate**

The Accu-Tab system is as accurate as gas, more consistent than sodium hypochlorite and automatically delivers the precise level of chlorine that you need. Accu-Tab contains 65 per cent chlorine whereas sodium hypochlorite contains 10-15 per cent. All chlorine-controlled dosing is through 1½" PVC pipework, using large volumes of water.

### **Low maintenance**

Patented erosion chlorinators have no moving parts or small openings to

clog and the feeder carries a lifetime guarantee. Therefore, eliminating the possibility of blocked injectors - keeping operation simple and maintenance to a minimum.

All parts, including the pump are fitted with unions and can be changed in 15 minutes if required.

### **Versatile**

It provides the flexibility to suit virtually any application, size and chlorine demand – indoor or outdoor. There is no problem with access as the Powerbase will fit easily through a standard door and if site conditions allow, then the gravity-fed Accu-Tab feeder may be installed without a Powerbase. Conversion and installation are straightforward and simple, and can be carried out without disruption to the operation of the pool.

### **Oak CWE**

**028 9085 4167**

**Contact the CertiChem division for further information on its authorised Accu-Tab dealers**

**T: 01993 777200**

## **ISPE Workshops at SPATEX 2022**

**Tues 1<sup>st</sup>-Thurs 3<sup>rd</sup> February 2022**

The ISPE has been pleased to organise a technical programme of Workshops for SPATEX for over twenty years and this has become an integral part of the show.

Now that we know for 2022 we will all be back under one roof in Coventry (see page 11), if any exhibitors or ISPE members would be interested in giving a generic, non-product-specific 20 minute presentation, do please let us know, outlining the topic you would like to cover. Email [ross@ispe.co.uk](mailto:ross@ispe.co.uk) or telephone 01603 499959.

## Sales surge in 2020 provides welcome boost for wet leisure industry

The results of the 10<sup>th</sup> annual Wet Leisure Survey produced by leading independent distributor Golden Coast revealed some fascinating insights into how the sector performed in 2020. Not least of these was the fact that despite, or perhaps because of, the pandemic, the market remained remarkably buoyant with 87 percent of respondents reporting OK, good or extremely good sales.

Created by Golden Coast to help the industry by gauging thoughts, feedback and statistics across the entire spectrum of stakeholders, the Wet Leisure Survey is completed anonymously by respondents working all around the UK, and is supported by many organisations including BSPF, SPATA, BISHTA and ISPE, as well as industry press.

Golden Coast Managing Director Jamie Adams explains: "Based on the responses we received it seems the sector has fared well despite the turbulent times created by COVID-19. 2020 was certainly an unprecedented year, providing countless challenges for the entire nation. That said, it is clear that as an industry, wet leisure provides customers with products and services that aid health, wellbeing and relaxation, and perhaps there was never a time when this was valued more."

The full Wet Leisure Survey results are available at [wetleisure.com](http://wetleisure.com). To find out more about Golden Coast, or to request a printed copy of the results, contact a member of the sales team on 01271 378100, email [swimmer@goldenc.com](mailto:swimmer@goldenc.com) or visit [www.goldenc.com](http://www.goldenc.com).



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## Edited Highlights of 'The Life and Tales of William Hales' (Part 4)

### **Working as self employed and then 'Anchor'.**

I left Gazelle towards the end of September 1971 when it became obvious that Higgs & Hill were not going to be building swimming pools, and I started working on my own. The first thing I did was contact Eric Roberts at Paragon Pools and he gave me some design work to do straight away. This, together with a couple of landscape jobs I picked up, which Kirt Klietz's company would build for me, and I quite quickly found myself quite busy.

Kirt and I had been going to start a new company doing the landscaping around swimming pools. They had been doing all the landscaping work for Gazes. But he got cold feet and in the end I just went on, on my own.

Eric Roberts always found me a design drawing to do whenever I contacted him and this got me going, as I have often said I struggled for about six weeks and then it just took off. Then one day about the middle of January 1972 I had a call out of the blue from Anchor Pools, asking me if I would come to the office in Lightwater to discuss the possibility of me replacing Jerry O'Donnell who was leaving them (he covered the South East area).

He eventually started Surrey Pools which he ran for quite a few years.

At about the same time I had received another unexpected phone call, from Rupert Murdoch's

Estate Agents asking me if I could take over the sourcing and construction of the pool at his house in Epping, this had been the last contract that I sold whilst at Gazelle.

I attended the meeting at Anchor Pools with Norman Heywood the MD and John Crowther their chief salesman. It was a rather liquid meeting which went on for quite a few hours (times were different back then) and I had to call them in the morning to ask if we had come to any conclusion, which we had, which was good as I could now go and discuss the job for Mr Murdoch. This would be the first of the many pools that I would design and Joe Smith would construct.

John Crowther and I eventually set up A&W Design & Marketing to do all the sales and marketing for Don Nash's companies, although mainly for Anchor Pools. As Eric Roberts had been such a help getting me started working on my own, which I would for the next 45 years, I felt that I could not let him down, so, having told Anchor, I agreed to carry on preparing design drawings for Eric, providing it was a job he had got.

One day about late summer 1972, he called me and gave me an address to go to and do a full survey for quite a large indoor pool he said he had been commissioned to build, including the building, for a domestic pool with quite a high ceiling, about 22ft high.

He gave me the name a Mr R Stewart. The site was just outside Ascot on the road to Windsor. So off I went in my brand new 'Datsun 240Z' I arrived at the house, quite a large and very grand place, with two brand new Lamborghinis in the drive, an Espada and a Miura.

Well, as soon as the owner came down the steps from the house I knew just who I was meeting. I had not given it any thought. I guess that having been involved with pools for so many celebrities I had become a little bit blasé about it.

Anyway all Rod Stewart wanted to talk about was motor cars, I guess that my 240Z was sort of state of the art for that level of car back then, and I wanted to have a good look at his cars as well, so the upshot was that as he had to go off to a meeting after about half an hour and we didn't have time to discuss what he wanted or where he wanted it, so I went off and had to make another appointment.

And the next time after waiting in his lounge for a while drinking coffee and watching his state of the art, large White Globe shaped TV and then after he had shown me his new recording studio, we just managed to spend some time discussing what he wanted me to design for him. And this I did, it was quite elaborate with a walkway bridge running the whole length of the building above the pool with spiral stairs each end. Shortly after this he sold the house and moved on, but I gathered from Eric that he liked the design.

Another well known name that I dealt with whilst at Anchor

was Peter Grant, the manager of 'Led Zeppelin'. He lived in a moated manor house down near Bucklers Hard and I went down with Norman Heyward to sort out a problem, which was that the entrance was too narrow for the machine and it had a moat all the way round, and no other entrance, and the site was potentially, rather wet, and the pool was to be quite deep.

I went to site and Peter Grant was there with the band members.

The answer was, I thought, to fill a section of the moat with shingle, cover it with 'Trackway', run the machine over it and dig the pool, the dumpers came over as well. I had tested the ground and found it was 'Impermeable Clay' which Trevor Baylis had reliably informed me was used to puddle lakes and make them watertight.

Fingers crossed. The hole was dug down, about ten feet without any water ingress at all. 'breath a great sigh of relief' and then went in to be introduced to the lads. Jimmy Page, Robert Plant, John Paul Jones & John Bonham. All very friendly I found, also Peter Grant, much against his reputation I gather. The job went well.

John Crowther had a good friend, Freddy Tasker who was an architect, his father, also a Freddy was Sir Freddy Tasker, also an architect of some note. And Freddy often worked with me on building designs, and I was learning a lot from him to the point that I was getting more and more involved with the complete structural design of the whole project including doing all the structural calculations, which of course was setting me up for the

eventual writing of the ISPE structural text book to come, starting in the 1980s.

### ***Time to move on again.***

After Anchor Pools I worked with Joe for a few months at 'Tenders International' and his co-director, Frank Staite-Gardener. During the time I was with them at Tenders we did the work on the 'Cormorant A Oil Rig', the largest concrete oil rig in the world.

Constructing all 64 – 60ft x 60ft square, domed concrete caps and spraying the 60ft diameter

300ft deep structural tubes. This was really the project that took Joe to the next level of business.

I didn't find Frank an easy chap to work with and so I didn't stay very long with them. He and Joe weren't getting on too well either and Joe soon took off to start 'Premier Gunite Co', his trade company, and later came 'Heritage Pools'.

*With thanks to Bill Hales, Hon. FISPE. We hope to include a further instalment in a future issue.*

## Getting Back to Normal - Is it safe to go back in the water?

Everyone will agree that since March last year things have been far beyond normal for most of us. When we gathered in Coventry for SPATEX back in January 2019 there were a few rumours of a 'superbug' coming out of China – who could have predicted that less than four months later things could have changed so dramatically.

Fast forward 14 months later and we see signs of operations returning to normal with lockdown restrictions being lifted slowly and sites being able to reopen to visitors. Things were still far from normal, with most people being cautious and tentative and sports being played in empty or half empty venues.

What does this mean for swimming pools? As lockdown measures ease we should see pools reopening and, although social distancing measures will be necessary,

hopefully the numbers attending centres increasing especially when the heatwave hits. But is it safe to go back into the water?

Whether it is a leisure centre, public lido or home pool one thing that the past 14 months has shown us is that hygiene is really important not just from a personal perspective but also with respect to fixtures and surrounds. This is just as important in pools and surfaces etc., should be kept clean and sanitised regularly.

What does this mean when it comes to the pool water? A recent study commissioned by Swim England showed that Covid-19 was quickly deactivated in pool water providing the disinfectant and pH levels were correct. The research established that 1.5mg per litre of free chlorine with a pH between 7-7.2 reduced the infectivity of the virus by more than 1000 fold

within 30 seconds. Full details on the study can be found at <https://www.swimming.org/swimengland/swimming-pool-water-inactivates-covid19-virus/>

So when it comes to looking after your pool water in either a private or public setting the advice is:

- Test frequently, maybe increasing the number of times per day (this is important for both public and private pools)
- Run free chlorine at the higher end of that stated in your operating procedures
- If possible lower the pH to as close to 7 as possible without compromising the water balance
- Sanitise the pool surround regularly but do not allow

detergents etc., to enter the pool water

- Test correctly and don't take short cuts
  - Use a recognised test system
- If you do this, then it indeed is safe to go back in the water!

Things are getting back to normal but we are a long way off where we were. We need to follow the guidelines, make sure what we are doing is best practice in all areas of running a pool from the plant room to the changing room and make sure our water is the best and safest it can be. Hopefully this will mean things carry on moving forward and soon our pools will once again be full. Remember, more testing means more control means better safety.

**Colin Day, FISPE - [www.lovibond.com](http://www.lovibond.com)**

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# Company Profile

## London Swimming Pool Company

London Swimming Pool Company has been prominent in the UK pool industry for 36 years, initially specialising in pool design and construction for which it has won an array of awards over the years and expanded into pool Servicing and Refurbishment as its reputation grew. The company has steered its way through the toughest economic period this country has experienced in decades due to the pandemic. With severe restrictions on construction, especially in the early phases of COVID-19, the business pivoted even more towards servicing and small-scale refurbishment projects, which were feasible during the long lockdown.

Managing Director, Jamie Smith, MISPE, said, “A crucial factor in delivering the same high level of pool and spa servicing as we did pre-pandemic is our staff, especially the pool servicing engineers. Their willingness to take on new challenges is something of which I'm very proud. The engineers had to operate in an even more fastidious way than normal, ensuring that social distancing and hygiene rules were followed to the letter while ensuring that they looked after our clients' pools with the same attention to detail.”

Jamie attributes the effectiveness of the team to the fact that while the engineers report to LSPC's head of servicing for direction and are in regular contact with him during the week, the engineers have a great deal of responsibility for clients' pools, which means they build good relationships with their designated clients. Jamie continued, “Clients feel comfortable knowing that their usual engineer would continue visiting, someone who knows their pool, so no human interaction was necessary during that time.”

“Ironically, growth in the servicing side of the business accelerated during the lockdown, so much so, that we need more engineers. Of course, the market is competitive, but we have a lot to offer engineers who take pride in the job, want to build rapport with their clients, enjoy being part of a close-knit team, but also like having a high-level autonomy to get the job done. Talented engineers are like gold dust, and we are fortunate to have a team that coped so admirably at a very challenging time. We just need a few more!



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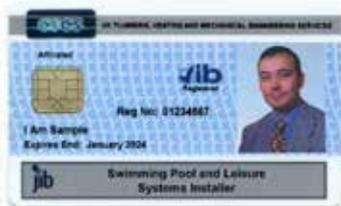


APPLY IN CONFIDENCE

JAMIE@LONDONSWIMMINGPOOLS.COM

## ISPE Welcomes Influx of New Members and Students

Back in September it was announced that ISPE Members and Certified ISPE Technicians (those who have passed all four exams of the ISPE Study Course) are eligible to apply for a blue CSCS card for 'Swimming Pool Installer' (subject to passing a valid Health, Safety and Environmental test). The UK-PMES CSCS Registration Scheme is administered by the JIB-PMES - Joint Industry Board for Plumbing Mechanical and Engineering Services in England and Wales - (see: <https://www.jib-pmes.org/>).



This category of card is intended for those whose work includes the installation, servicing and maintenance of swimming pools, saunas/steam rooms and hot tubs and applicants may apply on-line via the above website or download the PMES Related Occupations card application form.

Registration cards are becoming essential for all tradespeople working in the plumbing industry. The card shows site managers, employers and other tradespeople that the card holder is qualified for the work they are doing (and has passed a Health & Safety Test).

This has led to an influx of new ISPE member applications and a large number of new students. In fact there

have been over 40 new members and students in the last two months alone and a number of past ISPE Members and Technicians whose membership had lapsed for various reasons are re-joining the ISPE in order to apply for their blue Swimming Pool Installer CSCS card.

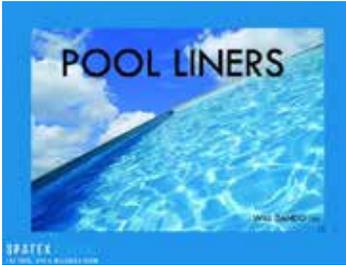
For detail of how to join ISPE contact [ross@ispe.co.uk](mailto:ross@ispe.co.uk) for an ISPE information pack.

## NEW Content on ISPE Website



SPATEX Virtual, held back in February, was a great success and worked extremely well given the relatively short amount of time between it being obvious that a live face-to-face show would not be possible and the virtual event opening for business. Like the live event, ISPE were invited to put a technical programme of workshops together and these were available to view on-line during the event and were accessible after the event for a while, too, via the SPATEX website. Such was the interest in many of these sessions, a decision was made to keep these presentations available for others to benefit from and you will now find a lot of them (with more to follow) available to view, free of charge on the ISPE website (on the ISPE Workshop Presentations page). We are most grateful to the speakers for their

permission to use these and to SPATEX for assisting us in the transformation of these presentations from the SPATEX Virtual platform to the ISPE website.



### **ISPE Seminars and Workshops**

An announcement will be made in due course about re-starting the ISPE Seminars, hopefully, to be held in the Autumn/Winter of 2021 but it's worth repeating now that, subject to everything going to plan with the lockdown release and face-to-face training being permissible, there will be two ISPE events which you can make reservations for now:

**1) The ISPE Back-to-Basics/Revision Seminar** - this will take place, at a central venue, probably near Hemel Hempstead, Hertfordshire, in (hopefully) September, a couple of weeks or so before the rescheduled ISPE Exams (date to be confirmed) and is free of charge for all ISPE Students (all other ISPE members and non-members are welcome, too, for a small charge of £25 and £30 respectively). Each of the four ISPE Tutors will be present to guide delegates through some typical exam questions looking at how marks may be won or lost with examples of good and not so good answers. There are refresher sessions on each of the four subjects (Heating, Chemicals, Filtration and Construction) and questions are positively encouraged. The seminar starts at 9.30 and will be concluded by about 3.00 pm (and

there is no test to sit on the day). Light refreshments are provided and all delegates receive a CPD certificate worth four CPD points. (This seminar will take place on-line if any restrictions prevent a live event.)

**2) The ISPE Hands-On Filtration Workshop** - this will take place, probably in November, and in recent years has been held at Plastipack's premises at St. Leonards-on-Sea, East Sussex, courtesy of Peter Adlington, FISPE (and we hope to confirm this venue again nearer the time). This workshop is open to all ISPE students, members and non-members (£60 for ISPE members - all categories and £80 for non-members). The workshop is run by (ISPE past-President) Chris Carr, FISPE and (current ISPE President) Phil Barlow, FISPE, with assistance from ISPE Council member, Kim Mumford, MISPE, and gives practical instruction on filter stripdown and re-building, pipe fitting, pump stripdown and re-building and in addition there are theory sessions covering pipework installation and sizing, sizing a pump, filter and pipework for a domestic pool, installation and servicing tips, and sizing equipment for commercial pools. Again, there is ample opportunity for discussion and questions and light refreshments are provided. The day starts with a health & safety briefing at 9.00 am and concludes after a mini-exam on the day's activities at around 4.30 pm. CPD certificates indicating six points are provided to all delegates.

To register your interest in both events please contact the ISPE office ([ross@ispe.co.uk](mailto:ross@ispe.co.uk)) and as soon as dates and venues are confirmed, we will contact all those on the list to check their availability.

Remember, all ISPE events are open to members and non-members.

## Situations Vacant

In recent months we have added quite a number of vacancies to the Situations Vacant page on the ISPE website. It seems companies are crying out for new staff. Below are some extracts of some of the current adverts. See the ISPE website for full details and how to apply, or contact ross@:ispe.co.uk and we'll email the adverts to you. Good luck!

### **Sales & Technical Support Vacancy**

PG Group  
Based in Newbury

\*\*\*\*\*

### **Pool Installation Engineer**

Jetform Swimming Pools  
Based in London and Home Counties

\*\*\*\*\*

### **Swimming Pool Engineer (Routine Service Engineer)**

DG Pool & Leisure  
Based in West Sussex and operates nationally

\*\*\*\*\*

### **Senior Service Engineer and Trainee Engineer and Project Manager**

Aqua Platinum Projects Ltd.  
Based in Hampshire but work in London and South coast

\*\*\*\*\*

### **Field Service Engineer**

Sterling Hydrotech Ltd.  
Based in the North of England but travel elsewhere

\*\*\*\*\*

### **Pool Service and Installation Engineer Experienced Contracts Manager**

London Swimming Pool Company  
Based in New Malden, Surrey

\*\*\*\*\*

### **Swimming Pool Installation and Service Engineer**

Clear Water Revival  
Based in Bristol but travel around M4 corridor to Midlands and the South

*Please be aware that since this was written some of these positions may now be filled. Please check the ISPE website for the latest details as there are regular updates.*

# Introducing Skimmer Lids from HIDE – the world’s first dual-inlay lid system



**WITH HIDE**

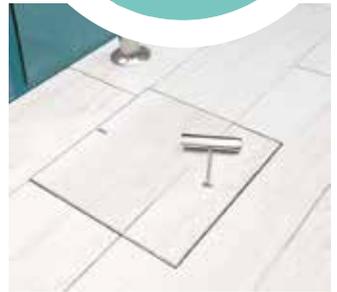


**BEFORE HIDE**

**Seamless  
Integrated  
Pattern!**

**H HIDE**

- ELEGANT FINISH
- POOL SAFE
- HIDE GRADE
- EASY INSTALL
- 25 YEAR WARRANTY



HIDE’s fully customisable inlay system allows you to add your material into the cover, as well as any combination creating a seamless and sophisticated upmarket finish.

HIDE covers can carry any selection of stone, tiles, timber, artificial grass, paver or concrete to match the surrounding landscape of your pool and patio.

Manufactured from solid 316L marine-grade stainless steel, HIDE covers stand the test of time.

**See online for more info.**

**EXCEPTIONAL SERVICE, QUALITY PRODUCTS**



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THE POOL, SPA & WELLNESS SHOW

TUESDAY 1 FEBRUARY - THURSDAY 3 FEBRUARY 2022

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