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A Message from the Chairman

A warm welcome to the spring edition of the Society’s 2012 newsletter. This new look edition marks the 5th issue of our newly formatted newsletter which will continue to be issued on a quarterly basis to our members and supporters. The Society is very proud of this production and this flagship document shows our continued commitment to professionalism within the building services sector.

Now that we are in the spring of 2012 the economic outlook still remains relatively weak, although there are some signs of stability and growth in some areas of the market place. We can but hope that a continued recovery is sustained during the remainder of 2012 and that better times are ahead of us as we move into 2013 and beyond.

As I review the activities of the Society during the last 3 months I would first like to acknowledge the good work that all of those who participated in helping to celebrate ‘World Plumbing Day’ which took place on the 11th March. In particular was the ‘World Plumbing Day Video’, which featured Professor Mala Rao outlining the medical advances in the 19th Century Britain through the installation of clean water supplies and sanitation facilities. Professor Mala contrasts these medical advances with the appalling situations which still exist today in many developing countries where lives are unfortunately lost through a lack of access to basic plumbing provisions. A DVD of Professor Rao’s talk was instigated by SNIPF and supported by many of the plumbing industry bodies and associations. I can gladly report that SoPHE were one of those supporters of this initiative. Further details on this video can be accessed through our website.

I would also like to inform you of the recent WRAS conference which took place on 14th March 2012 at The National Motorcycle Museum, Solihull, entitled ‘Shaping the Future’. I had the pleasure of representing the Society and gave a presentation entitled ‘Water efficiency inside buildings and the role of WRAS’. A full write-up on this conference is contained within this edition of the newsletter.

I was also asked to give a presentation at the ‘Combating Legionella - Manchester 2012’ conference which took place on 29th March 2012. The conference was titled ‘Understanding how to effectively engineer out and manage risks’. My presentation focused on ‘Designing out the risks & incorporating L8 into buildings’. Again a full write-up on this conference is contained within this edition of the newsletter.

Continuing on the theme of presentations, on the 20th April I shall be one of the speakers at a BSRIA event entitled ‘Inspiring Sustainable Maintenance’, at which I will be giving a presentation on the ‘Water White Paper Response’.

On the 8th May the 2nd Plumbing Industry Forum meeting will take place, hosted by the Worshipful Company of Plumbers (TWCO). I will again be representing SoPHE at this event. Other organisations that will be present representing the Plumbing Industry include CIPHE, APHC, HVAC, SNIPF & BPEC. This forum was instigated in order to provide a platform for collaborative working on high level issues which affect all of those involved within the plumbing industry.

On Friday 11th May 2012 the 2nd SoPHE Northern Dinner will again take place in the city of Manchester. Building on the success of last year’s event I look forward to welcoming all VIP’s and guests at this upcoming event. I will report on this event in the next edition of the newsletter.

In terms of membership I can report that the Society has seen a continued growth in the overall Membership base. I can also report that our industrial associate membership base has also continued to grow and I personally welcome all new members to our Society.

A continued programme of CPD technical seminars have also taken place over the winter period which are a vital element in what the Society can offer to its members. The spring and summer technical events are now in place and we look forward to seeing as many members as possible to these functions.

One of my key aims for the Society is to further promote SoPHE within the general building services and construction industry at large and I will always look for new opportunities to do so. This remit will form the basis during the short, medium and long term for me as your Chairman and it is a pleasure to take this strategy forward on behalf of the Society.

The next edition of the SoPHE newsletter, the summer edition, is due to be issued to members at the end of July 2012. Once again I would like to thank all of those who support the Society, whose dedication and enthusiasm enable us to keep improving and moving forward, with the overall purpose of further raising the profile of the Society.

C. Northey
Chairman, SoPHE
On 14th March 2012 at The National Motorcycle Museum, Solihull a special and unique conference hosted by WRAS took place. Entitled ‘Shaping the Future’, this event was probably the first time that so many of the people and organisations who are involved with or use the services of WRAS have had an opportunity to meet in one place and collectively discuss the work of the scheme. These include designers, manufacturers, installers, water company regulators, etc.

The main purpose of the conference is to look forward and to reflect on what WRAS is doing and work together with all industry stakeholders collectively, to ensure that WRAS are moving forward and providing the high level quality services that industry needs and wants.

WRAS’s purpose is to contribute to the protection of public health by preventing contamination and encouraging efficient use of public water supplies through the promotion of compliance with the Water Supply (Water Fittings) Regulations and Scottish Water Byelaws. WRAS’s role is to assist water suppliers in raising awareness and understanding of the Regulations, to provide guidance that enables compliance and act as the focal point for water fittings regulations and byelaws.

The scheme is currently developing its business plan for the next 5 years and has recognised the need to consult with those who use its services. To assist in this process a number of speakers (8 in total), with a wealth of knowledge and experience in their chosen fields gave presentations, setting out what they believe their sector thinks WRAS should be doing in the next few years.

The first and keynote speaker was given by Professor Jeni Colbourne MBE, who is currently the Chief Inspector of the Drinking Water Inspectorate (DWI). Professor Colbourne outlined the ‘Source to Tap’ approach in terms of risk assessment and risk management, and suggested that there was an over reliance on water treatment technology. Professor Colbourne then went onto describe, ‘Preventing water quality deterioration in pipes and plumbing’, highlighting the fact that ‘promotion, professionalism, poor links with water quality scientists and environmental health officers’, needed to improve. This issue was also recognised by WHO which had produced a ‘Manual’ of Water Safety in Buildings. Professor Colbourne then went onto describe, ‘Preventing water quality deterioration in pipes and plumbing’, highlighting the fact that ‘promotion, professionalism, poor links with water quality scientists and environmental health officers’, needed to improve. This issue was also recognised by WHO which had produced a ‘Manual’ of Water Safety in Buildings. This document explains the risks posed by poor plumbing and fittings, including explaining the risks posed by poor plumbing and fittings. It also highlights how the lack of barriers makes buildings the highest water safety risk to individual consumers. Building owners are also responsible but emphasis needs to be placed on incentives to understand and control the risks, especially for public buildings. Professor Colbourne summarised her presentation by highlighting the important role of WRAS as a single industry voice and vehicle for a ‘National enforcement policy, risk assessment principles and leadership and tools for specific stakeholders’.

The second presentation was given by Christian Taylor-Hamlin, who is Technical Director of the Bathroom Manufacturer’s Association (BMA), who gave a talk on ‘WRAS certification a manufacturer’s view’. This presentation highlighted some of the issues with regard to product approval, including the issues with time frames for approvals. Christian also emphasised the need to work with the BMA in order to make the overall assessment process more streamlined and efficient whilst maintaining standards.

The third presentation was given by myself on behalf of the Society, entitled ‘Water efficiency inside buildings and the role of WRAS’. This presentation highlighted the main issues facing the water industry, such as describing the under and over supply of rainfall. The importance of water use within buildings was also highlighted, detailing water efficient design which is driven by changes in legislation. Water consumption issues were also detailed particularly water
stress areas such as the south east of England. The second part of my presentation focused on the opportunities for WRAS which described the benefits of WRAS to the Public Health Engineer and suggested WRAS’s remit should be broadened in order to further engage with the design community.

The next speaker, Chris Sneath, Immediate Past Master of the Worshipful Company of Plumbers and Hon. Fellow of the Society, gave a presentation on ‘What WRAS should be doing in the next 2-3 years to assist installers and improve standards in plumbing’. Chris outlined the main problems the industry faced, namely, a shortage of skilled people, scheme overload syndrome, a lack of cohesion throughout industry and the financial constraints on both manufacturers and installers. Chris also described the importance of ‘Why we need competent, qualified, skilled plumbers’ and ‘Why we need a WaterSafe Installer Scheme’.

The 5th speaker, Philip Ashcroft, Principle Buildings & Facilities Management Services Engineer at the Department of Health, gave a presentation entitled ‘The Public Health role of WRAS’. Philip described that HTM 04-01 makes extensive reference to the Water Supply (Water Fittings) Regulations 1999 and the WRAS “Water Regulations Guide”, and that it is likely to require further revision following the recent incidents involving Pseudomonas aeruginosa contamination. The question of as to whether BS 6920, Suitability of non-metallic products for use in contact with water intended for human consumption, should be enhanced for products installed within augmented care areas within healthcare premises. The issue relating to the correct installation of washer disinfecter appliances and the compliance of available products is an issue that hopefully WRAS can help the Department of Health resolve.

The next speaker Dr. Julian Dennis, Director of Compliance & Sustainability, Wessex Water, gave a presentation on ‘What water suppliers want WRAS to do!’. Dr Julian began his presentation by describing that it was already understood that materials used to convey water could cause problems, including hot water systems in buildings and how they were managed and maintained, could also lead to a deterioration in the water quality. Thus testing systems were developed to ensure that materials did not leach into the water that would cause harm or encourage the growth of microorganisms that would eventually lead to the deterioration in water quality or lead to disease. Dr. Julian also stressed that all Senior management personnel within water companies should know about who and what ‘WRAS’ does for the industry.

The 7th presentation was given by Julie Spinks, Managing Director, WRAS, who gave a presentation on ‘The draft WRAS business plan’. Julie outlined that WRAS was, ‘Listening to stakeholders’, was maintaining its ‘core objectives’, such as awareness and understanding, approval schemes, support for water companies and representation. Julie also outlined some of WRAS’s key strengths, such as ‘Expertise, Regulatory aims, Water Company support, Representation, Meaningful debate and the WRAS Brand’. The final part of Julie’s presentation focused on ‘Key Challenges & Actions’, such as ‘Marketing & Communications Plan, Resource Plan, Performance Framework, Stakeholder Plan, WaterSafe, Streamline Approvals, Alternative Evidence, Business Case, Fees & Best Practice’. The final business plan is to be presented to the WRAS board for approval on 31st March 2012.

The final presenter at the conference was Philip Mills of Policy Consulting Network, who gave a presentation on ‘Introducing the WaterSafe Installers Scheme’.

Philip described the problem with the current multiplicity of schemes and acronyms that are currently available. This has led to consumers being confused about trade association membership and accreditation bodies. The objectives of the scheme are “To develop a national plumbing approval scheme that would provide recognition for designated competent plumbers and provide assurance of competency and compliance to consumers seeking water supply plumbing work” – work which is subject to Water Fittings Regulations / Byelaws. Businesses would be promoted as WaterSafe registered and individuals would be identified as WaterSafe competent. Leading industry partners are already involved in setting up the scheme. It is understood that a consumer launch date of September/October 2012 for the scheme is planned. The WaterSafe scheme has been developed to benefit all of the industry, i.e. plumbers, water companies and customers.

Overall the conference was a great success with all the major stakeholders being represented. A total of 120 delegates attended this event and it is hoped that this will be the start of many other events that WRAS and the stakeholders can participate in. It is WRAS and the industry at large that will benefit from this closer working relationship and I believe this can only be a positive move forward for the public health community.
The use of Renewable technologies in providing heating and hot water requirements has increased rapidly in recent years.

Despite difficulties with our economy it is likely that the use of technologies such as Bio-mass, CHP, Heat Pumps and Solar Thermal will continue to be considered in designs for new buildings and major refurbishment projects.

There are potential drawbacks with each of these four technologies and none are the ‘be all and end all’ as some would have had us believe a few years ago. Whilst renewables will have an important part to play in our future, most in our Industry now accept that successful integration with more traditional methods such as gas-fired condensing boilers and water heaters provides energy efficient solutions which will reduce the use of fossil fuels and will help towards the goal of carbon emission reductions.

In commercial buildings, the use of either Air Source Heat Pumps or Solar Thermal Technologies is a relatively straightforward way to supplement a hot water system. Such systems usually include a pre-heat storage vessel which provides feed water for the traditional hot water system generation i.e. either a Boiler/Calorifier or a Direct-fired Water Heater. Even on a mild spring or autumn day water storage temperatures in excess of 40°C can be achieved from Solar and Air Source Heat Pumps. This can reduce fuel consumption and provide significant savings against a stand-alone water heating method which would otherwise be heating up from a cold feed temperature of around 10°C.

HSV Thermal Store

The use of a Thermal Store can provide an alternative to a pre-heat vessel and potentially an even better solution, especially as they have the ability to be used with a combination of Renewable and fossil-fuel energy sources.

HSV is a storage vessel constructed from mild steel with 3 large stainless steel coils. Two of these coils are used for Solar thermal where the heat transfer is usually in the form of a glycol fluid. With other renewable technologies the energy is collected in the form of heated water. In these cases the bulk of the vessel stores the energy generated, which then transfers to one of the stainless steel coils for use as domestic hot water.

This can then be connected to a direct gas-fired water heater or boiler/calorifier system in the same way as an indirect cylinder provides pre-heated feed water. Alternatively the domestic hot water coil can be used to supply instantaneous hot water for applications where there is steady, rather than peak hot water demand.

Up to 1290 litres of hot water per hour is achievable from the largest model.
Legionella Risk Reduced

A major benefit of the HSV Thermal Store is that the risk of Legionella colonisation is greatly reduced. Under normal operating conditions the basic design will not allow the build-up of the bacteria as a result of minimal domestic hot water in storage. Unlike some other Renewable pre-heat systems, HSV does not require a pasteurisation regime which can be a complex and highly energy intensive process.

Flexibility

In addition to the ability to work with multiple heat sources, HSV offers a great deal of flexibility in terms of how the energy can be used, as follows:-

• A pre-heat vessel
• An indirect instantaneous water heater
• A supplement to underfloor heating systems

The product is available in 6 sizes with storage capacities ranging from 440 to 1825 litres. The steel tank exterior is coated with a black corrosion protection paint and is insulated with high quality CFC-free 100mm foam insulation. The outer jacket has a soft PVC coating.

HSV is suitable for many Commercial and Industrial applications and gives best value when used with multiple heat sources, providing savings on space and installation costs as well as ensuring the maximum possible capture of renewable technologies.

The HSV Thermal Store was the recipient of the HVR Awards 2011 Commercial / Industrial Product of the Year.
On 29th March 2012 at The Manchester Renaissance Hotel, Manchester the ‘Combating Legionella Manchester 2012’ conference took place. This conference was titled ‘Understanding how to effectively engineer out and manage risks.’ The attendees at this conference included designers, manufacturers, installers, water company regulators and others within the public health industry.

The conference was divided into 2 distinct sections with various industry speakers providing presentations on industry specific topics and areas of interest. The first part of the conference was entitled ‘Industry Update’, and a summary of some of the presentations is provided below:

The first presentation was given by John Smith, of Hydroviron Support Services and Chair, Legionella Control Association Standards Association Standards Committee, entitled, ‘Legionella as part of a wider water management strategy: Contrasts & comparisons’. This presentation outlined the fact that legionella is one of many bacteria which can be tackled as part of a wider water management strategy. For many years now the main aims of water treatment programmes were to maintain clean systems free from scale, corrosion, bio-fouling and sediment.

Another presentation given by Kathryn Gilbertson, Director, Greenwoods Solicitors, which described such topics as ‘Understanding & enforcing Corporate Manslaughter law’. Kathryn outlined 2 such cases of smaller companies being prosecuted under the law for mismanagement in terms of legionella management.

A panel discussion also took place, which discussed the subject of ‘hot vs. cold water system – Where is the greatest risks?’ One of the main topics discussed was about the dangers found in both hot and cold water systems and maintaining the appropriate temperatures to contain the bacteria.

Highlights of the second part of the conference entitled, ‘Building risk, design and operation’. A presentation was given by myself entitled ‘Designing out the risks & incorporating L8 into buildings’. The first section of the presentation described preventing or controlling the risk of exposure to legionella bacteria. The risk from exposure will normally be controlled by controlling the release of water spray, avoidance of water temperatures & conditions that favour the proliferation of legionella bacteria & other micro-organisms, avoidance of water stagnation and the use of materials that harbour bacteria & other micro-organisms or provide nutrients for microbial growth, maintenance of the cleanliness of the system & the water in it, use of water treatment techniques and ensure the correct & safe operation & maintenance of the water system.

The presentation also highlighted some of the methods of water treatment that can be implemented as a form of legionella control, i.e. UV disinfection, chlorine dioxide and reverse osmosis and described some of the benefits of each. The second section of the presentation entitled, ‘What impact can the design have on future legionella prevention, The Key Design Points – Hot & Cold Water Systems’. The system designer has a choice on the type of system to be designed; this will depend upon, the size & configuration of the building, including the needs of the occupants, whether cold water storage is required and the amount to be stored. The presentation also highlighted the need for sufficient insulation to be provided to both hot and cold water supply pipework. The presentation concluded by highlighting the factors associated with refurbished buildings as well as new build ones.

Overall this conference was a success with some 80 delegates in attendance to hear about the issues raised. The design of hot and cold water systems was certainly one of main themes throughout the conference and it was satisfying to be able to address the audience from a designers’ prospective representing the Society.
Getting your own back (or someone else’s)

Backflow risks in compact bathrooms

Backflow risk

One of the commonest Water Fittings Regulations problems which Water Suppliers find when they inspect houses is the risk that in the bathroom, the shower hose will allow backflow from the bath, or worse - the WC, into the drinking water supply. Some bathrooms are designed and installed wrongly in the first place, and some have been modified by the occupants who fit longer shower hoses than the original ones supplied (Fig. 1a). The same risk arises from flexible shower hoses installed adjacent to WCs for personal cleansing in place of toilet paper (Fig. 1b).

In the bathrooms shown, the shower hose is long enough to reach into the toilet and if the water pressure failed or someone opened a tap at a lower level whilst it was left there, contaminated water could siphon back into the pipes supplying the shower. These pipes are connected to other outlets, probably including the cold water drinking tap. There’s a real risk that contamination from the toilet could end up in someone’s glass of water.

Fluid Categories for backflow protection

The Water Fittings Regulations require the highest level of backflow protection for WCs because these are rated at fluid category five – fluid representing a serious health hazard. Baths and washbasins are rated as fluid category three in domestic premises, but as fluid category five if they are used in healthcare premises, because of the greater risk of infection.

Protecting against backflow

The Government’s Guidance to the Regulations and the WRAS Water Regulations Guide explain the backflow risk of shower hoses and WCs and the means of protecting against it. In Fig. 2 one WC is outside the reach of the shower hose, but the bidet and the other WC are within the zone of backflow risk of the shower hose so the hot and cold water supplies to the shower combination tap must be protected by a fluid category five backflow device.

This requires a suitable air gap, usually incorporated into the water storage cistern which feeds the water to the bath tap, via pipes which must serve no other outlets at a lower level than the bath.

The predominance of unvented water heating systems in modern homes means it is unusual to find this arrangement. Even where a “roof tank” (storage cistern) exists, the water is usually fed through pipes which serve other outlets lower than the bath combination tap, so the system would not comply.

Alternative Backflow Protection

There are several other ways to achieve adequate backflow protection, apart from the use of a storage cistern with air gap. Designing the bathroom so that the bath taps are at the opposite end of the bath from the WC allows a long hose for the convenience of users but prevents it reaching the WC.

In the arrangement shown in Fig. 3, the longer shower hose can reach the washbasin and bath water, which are fluid category three (FC3), so backflow protection to FC3 is provided by installing double check valves on the feed pipes to the shower mixer valve.

Figure 1a: Bath shower hose reaches the WC

Figure 1b: Shower hose at WC for personal cleansing

Figure 2: Zone of backflow risk for a shower hose outlet.

Figure 3: FC3 backflow protection by shortening the hose or providing check valves

Cont.
In the other arrangement shown, the shorter shower hose cannot reach the bathwater or basin and the vertical separation between them is enough to maintain an AUK2 air gap. For an AUK2, the minimum vertical distance between the bottom of the tap outlet and the spillover level must be:

**Requirements for AUK2 Air Gap**

<table>
<thead>
<tr>
<th>Tap size</th>
<th>Size of air gap</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to G½”</td>
<td>20 mm</td>
</tr>
<tr>
<td>From G½” to G¾”</td>
<td>25 mm</td>
</tr>
<tr>
<td>Greater than G¾”</td>
<td>70 mm</td>
</tr>
</tbody>
</table>

(The term G½” etc. is a standard measure of the diameter of the tap connection)

**Making it safe**

With existing layouts there are simple and cost effective methods to prevent the hose outlet reaching the WC:

(i) Fit a shorter hose so that it doesn’t reach the WC.

(ii) Fit a shower screen between the bath and WC, so the hose isn’t long enough to reach round it to the WC.

(iii) Use a restraining ring or clip to fasten the hose to a shower rail or wall so that it cannot reach the WC (Fig 4). The restraining ring or clip should be designed and fitted so that it is robust enough not to be easily broken or have the hose removed from it.

For more information there’s an advisory leaflet called “Prevention of the risk of backflow in the design of domestic bathrooms” which can be read or downloaded free of charge on the WRAS website - http://www.wras.co.uk/Publications_DEFAULT.HTM.

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**SoPHE Annual Technical Visit and CPD**

**26th March 2012**

By Steve Ingle

On Sunday 25 March 2012 most of us set off for Manchester Airport at 10.00 to check in at the agreed meeting time of 11:00 with Engineers from Nottingham, Leeds, Manchester, Salford and surrounding Lancashire areas, along with the hosts and Principal Leader of the Technical Day, Mr Thomas Schmidt, International Sales Manager, on the Coordinated thermal balancing lead by Mr Chris Doherty, National Specifications Manager, on the Coordinated thermal balancing training centre with a Q&A session then lunch. After lunch we set off to the Oldsberg factory for a visit to look at the design, foundry, machining, assembly, testing of an even wider range of equipment produced for Oventrop and others, with the same measures in place as the Brilion factory. We were shown onto the roof to see in action, first-hand, differing types of Solar panels. This was followed by a visit to see how they all integrated, including BMS. Delegates were encouraged to have a hands on approach with the various rigs and were allowed to put in the use of Solar panels. This was followed by a visit to see what was being produced in temperature rise and amounts of energy saved. Then there was a second seminar on the R&D testing/demonstration of all their products from variable volume/variable speed systems, under-floor heating, solar systems and how they all integrated, including BMS. Delegates were encouraged to have a hands on approach with the various rigs and were allowed to put in their own requirements of the systems, seeing the resultant effects on systems and question any of the technicians about the systems and ‘what if’s’!

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This was followed by a third technical seminar, lead by Mr Chris Doherty, National Specifications Manager, on the Coordinated thermal balancing and water hygiene management on DHW & CWS systems including Legionella and Psudomonas protection for Cold water systems which is new to the market and very impressive, It showed a lot of deep thinking had gone into the development. Mr Chris Doherty dealt with all questions before handing over to Mr Gavin Welsman who developed the total integration and controllability of systems from solar to under-floor heating and how the different systems communicated with each other and external controls. Mr Ian Anderson followed on, giving a brief overview of the day and chairing a final Q&A session then thanking everyone for attending.

The group then returned to the hotel before changing for a special Barbeque evening meal cooked by the hotel owner next to the steam rooms and natural Spa. Everyone thanked our host for a truly memorable visit and enjoyed a quiet evening relaxing and networking.

The following morning we were up bright and early for breakfast before setting off for a very impressive tour of the Mohnesc dam (yes these were bombed in the War by the Dambusters). A long refreshing walk with demonstrations of back washing for filters and flushing of supplies to the lower dams was organised before setting off back to the airport and saying our goodbyes.
SoPHE North West Update

By Malcolm Atherton

SoPHE NW met on Wednesday 18th January 2012 (a cold & wet evening!) - a presentation by David Boardman of Smedegaard Pumps Ltd; the topic was “The History of Booster Sets 1970’s to the present day” which was again attended by a small but ‘enthusiastic’ audience. Various topics surrounding the subject matter were discussed.

Due to unforeseen circumstances, the next advertised presentation by Twyford Bathrooms has had to be rescheduled; fortunately, Arrow Valves Ltd have agreed to step-in to do a presentation on the Water Regulations & at the time of writing, there would appear to be a “healthy” number of people wishing to attend – could this be because both Manchester football clubs have been knocked out of Europe?!?

Following on from this, the next scheduled technical evening to occur is on Wednesday 16th May 2012 – “Rainwater Harvesting”, by Louise Dubber & Kevin Knight of New Haden Pumps Ltd.

I am currently compiling the list for the coming year so if anyone has any suggestions for a presentation, please feel free to contact me.

Finally, don’t forget the 2nd Northern Dinner is happening on Friday 11th May 2012 at the Midland Hotel, Manchester; if you wish to know more, please do not hesitate to contact Malcolm – remember, the more the merrier!!

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I am currently compiling the list for the coming year so if anyone has any suggestions for a presentation, please feel free to contact me.

Finally, don’t forget the 2nd Northern Dinner is happening on Friday 11th May 2012 at the Midland Hotel, Manchester; if you wish to know more, please do not hesitate to contact Malcolm – remember, the more the merrier!!

SoPHE London Update

By Steve Vaughn

The SoPHE London region has continued to host successful technical evenings into the first quarter of 2012 which have been well supported by SoPHE members. On 7th February, AquaTech Pressmain presented the problems incurred with oversizing variable speed water pressure booster sets, also covering the topic of multi-pump sets. Their presentation tabled findings from empirical data which had been collected and recorded giving startling results in the actual use of water against the calculated expected usage within a range of buildings.

On 6th March, Watling Hope gave a presentation on the different methods of managing the issue of fat, oil and grease in commercial drainage systems to comply with Part H of the British Building Regulations. Their presentation incorporated an overview of the problems associated with fat, oil and grease in sewer systems, articles of legislation/compliance relating to fat oil and grease in addition to methods of managing the grease.

On 17th April, Hydrotec gave a presentation providing an insight into the different methods of managing the issue of bacteria given under the L8 with the pros and cons of each technology. The main issues covered within the presentation included HSE L8 approval methods, how to implement chlorine dioxide into a safe design and how it can reduce CO2 levels. The technical presentation was wrapped up with a case study of a pseudomonas issue at a care home. The discussion opened up to the floor with a very interesting Q&A session.

SoPHE London Update

By Steve Vaughn

NEW MEMBERS

Chris Doherty
James Patrick Ziebarth
Daniel Collins

European Vacuum Drainage Systems (EVDS) Industrial Member
Uponor Industrial Member

SoPHE forth coming Technical Seminars

SoPHE North West region, forthcoming technical Seminars

<table>
<thead>
<tr>
<th>Date</th>
<th>18th July 2012</th>
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<tbody>
<tr>
<td>Time</td>
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<tr>
<td>Topic</td>
<td>TBC</td>
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<tr>
<td>Sponsor</td>
<td>TBC</td>
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<tr>
<td>Venue</td>
<td>The Rain Bar, 80 Great Bridgewater Street,</td>
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SoPHE London region, forthcoming technical Seminars

<table>
<thead>
<tr>
<th>Date</th>
<th>4th June 2012</th>
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<tr>
<td>Time</td>
<td>18.00 – 20.00 (approx.)</td>
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<tr>
<td>Topic</td>
<td>The winners of the 2012 Young Engineers Award Presentation of their winning project in Maputo Followed by the CIBSE SoPHE AGM</td>
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<tr>
<td>Sponsor</td>
<td>AECOM, 4th floor, Mid City Place, 71 High Holborn, London.WC1V 8QS</td>
</tr>
<tr>
<td>Venue</td>
<td></td>
</tr>
</tbody>
</table>
THE STEERING COMMITTEE

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Honorary Secretary: David Shaw
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Alan Neall        Alan Flight
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Steve Vaughan     Ashveen Jeetun
Jassim Daureawo   Maria, Delia Marginian
Roger Vincer      Geoff Chubb
Allan Homewood    Kris Wojcik

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FEEDBACK

We would welcome any comments on this newsletter or contributions to future editions, in particular with regards to:

Future events for consideration
What should SoPHE be providing to our members
Items or comments you think may be worth raising or informing your fellow members
Technical articles from members, giving situations encountered and how they were overcome.

Please email comments to Jonathan Gaunt or Paul Angus at
jonathan.gaunt@arup.com
paul.angus@wspgroup.com