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Welcome to the summer edition of the Societies’ newsletter. This is the 2nd issue in our new look newsletter which will be issued on a quarterly basis. I believe that the high quality and professional standard that we have set for this document raises the profile of SoPHE within the industry at large.

I trust that you are all bearing up given the prolonged economic recession that has gripped the Construction Industry, particularly over the last 2 years or so. It is somewhat ironic that given the need for increased numbers of Public Health Engineers, that our part of the Building Services Industry has probably suffered the most. I would hope that we are now on the road to recovery.

On a more positive note I have some exciting initiatives and updates on the Societies’ activities over the last 3 months and will give you some insight into 1 or 2 others that are taking place later in the year. I was very privileged to attend the 1st Inaugural SoPHE Spring Dinner in Manchester on 6th May 2011, which was a huge success and achievement. A full write-up is contained within this newsletter edition.

We have continued to provide regular up-to-date information on our web pages, both technical and general industry news. It is my aim that we as a Society offer the best and latest news to our members and our web pages enable us to do this.

I am also pleased to announce that our Young Engineer Award for 2011 has been recently launched. This year we have changed the format for entries to attract further young budding engineers and have teamed up with Water Aid, whom we have supported over the last 8 years. I would urge all of you who employ or work with young engineers to encourage them to enter this prestigious award.

In terms of regional activities our North-West and Scotland hubs are continuing to offer a full programme of events to our members in these areas. It is also good to report that a South-West SoPHE hub has also been recently established, and is establishing a list of events for members.

In the London region we have also continued to offer CPD technical events to our members through the spring and early summer periods, with our last event being held on 7th June 2011.

I am also keen to form closer working relationships with other organisations that overlap with our own design remits in terms of water and drainage systems. I can therefore inform our membership that starting with our autumn edition; WRAS will be providing a regular feature within our newsletter, to inform our Members of Water Regulations updates and information, etc.

Looking a little further ahead, from 7th – 11th September 2011 the World Plumbing Conference will take place in Edinburgh. I can inform our Members that the Society will have an active presence at this highly important global event.

In terms of events relevant to our part of the industry is World Skills 2011 which will be held in London this year at Excel from 5th to 8th October. This event celebrates the best apprentices from around the world and I would encourage all of your to try and attend some part of this global event and show support to the UK entries.

Also in October a seven foot high bronze statue of a ‘Plumbing Apprentice’ is to be unveiled at Cannon Street Station, to mark the 400th Anniversary of the Worshipful Company of Plumbers’ Charter. I and other Members of the Society will be at this event providing support to our Livery Company.

My final thoughts for this edition of the newsletter simply are to thank all those supporters of the Society whose dedication and commitment enable us to continue our work and I look forward to keeping you up to date again on the Societies’ involvements in the autumn.
Approved to go ahead in November/December 2010, by the National Steering Committee and CIBSE, and after much planning from making sure a financially secure and “value for money” event was provided, the Dinner took place on 6th May 2011 at the Midland Hotel Manchester.

The venue is a 100 year old Grade II Listed building, red bricked, Victorian style Hotel that Manchester is famed for; whose interior perfectly captures this characteristic style with opulent décor, rich fabrics and shimmering chandelier’s.

The evening began with welcome drinks for participants at 6:00pm in the ambiance of the Octagon Bar of the Midland Hotel, where people circulated to catch up with old friendships and networked.

The Chairman, Chris Northey, called the dinner to order at 6:55pm where approximately 85 people from all different facets of the Industry sat down in the stately surroundings of the Stanley Suite of the Hotel.

Prior to welcoming the honoured guests, the Chairman was resoundingly congratulated on winning this year’s National Duke of Edinburgh personal award - Prince Phillip medal from City and Guilds (refer to page 5), which is well deserved. Chris Northey, SoPHE Chairman then rose to thank our honoured guests and everyone attending for making this our Spring Inaugural Dinner, on such a prestigious occasion. The top table guests included:-

- Mr A Cameron Eur Ing; C Eng; B Eng Hons; FIHEEM; FCIBSE; MIET; MIGEM. Regional Chairman IHEEM.
- Mr M Darvill; National Industrial Associates Chairman SoPHE
- Mr J Holder; West Indian Fast bowler and International Umpire
- Mr W A McIntosh Eng Tech; MCIPHE; RP National President CIPHE.
- Mr D J Wilkes C Eng; CWEM; FCIWEM; MICE National President Elect CIWEM.

Chris went on to describe the existing work and current plans for future development of the Society.

After a splendid 4 course dinner, the Chairman’s guest speaker, John Holder, entertained the guests about his many local, county and International experiences as both a cricketer, umpire and umpire trainer. Cricket, is both his hobby and his profession. In telling these anecdotes, his passion for the game brought cricket alive for the audience. Some of his experiences were funny and some only a cricketer/umpire would have seen or heard with the characters of the game.

Mr Holder closed with thanks to the Chairman for inviting him and to everyone for listening to him. Mr M Darvill, Industrial Associate Chairman, then rose to thank everyone for attending, the backup staff at CIBSE and included the various sponsors of the tables. He hoped everyone would return next year along with additional colleagues.

The sponsors of the evening were:-

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- Honeywell
- Horne
- Lochinvar
- Pipex
- Polypipe
- Saint Gobain

SoPHE would like to take this opportunity to thank everyone who attended the Inaugural North Dinner.

In particular a great thank you is well deserved especially for all the great help received from Malcolm Atherton, Steve Ingle, Mike Darvill, Paul Angus, Peter Hardiman & Rickesh Miyangar (who stepped-in at the last minute to be the ‘official photographer’); whose dedication made the evening the success that it was.

The North West and Scotland regional steering committee recently met on 28th June 2011 to discuss the feedback received and to “start the ball rolling” for next year. At this moment in time, it is envisaged that the next dinner will take place on Friday 11th May 2012 – watch this space & we’ll keep you updated with progress and news.
The Society of Public Health Engineers (SoPHE)

2011 Annual General Meeting (AGM) Report

The Societies’ AGM took place on 7th June 2011 at The Building Centre in London. A presentation was given by Chris Northey, Chairman to those present on the activities of the Society over the last year. In order to inform those Members who were unable to attend the AGM, a summary of the main points of this presentation are outlined below:

Introduction
SoPHE was officially created on 3 December 2002 and is currently celebrating 8½ years in existence. The main aim of the Society is to promote the Science & Practice of Public Health Engineering systems design.

Membership Working Group
The Society consists of a total of 170 members from all regions of the UK & overseas. The membership base consists of all grades of membership. We currently have 37 Industry Members within the Society. www.cibse.org/sophe. The Society has continued to raise its profile by campaigning to increase the membership base. 11 Membership Interview Panel meetings have taken place over the last year. A new set of Membership Guidance Notes have been created and are available on the website.

Education Working Group
Young Engineers Award for 2010 took place with the overall winner and runners up being presented with their awards at the 2010 SoPHE annual dinner. Continued collaboration with Greenwich University in relation to the Public Health Degree Course has taken place. Other UK part time distance learning courses have been explored with other Universities.

Communications Working Group
The SoPHE web site has been updated and streamlined to provide easier access to information. Greater information has also been added to SoPHE web site. The high profile newsletter is continuing to be produced and supplied to members and industry. The annual dinner in London in November 2010 took place, as well as the Inaugural Northern Dinner which took place in May 2011. Formed working relationships with the following industry bodies, etc, CIPHE, BSRIA, TW COP, CIWEM, C&G, IOW, IHEEM, WRAS, etc.

Technical Working Group
3 - 6 CIBSE CPD accredited technical presentations have taken place in each SoPHE region, i.e. London, Manchester & Scotland. We provided advice on Government advisory panels, such as Building Regulations Advisory Group on the revision of Part G (Hygiene and Water Efficiency). The Society is also involved in the revised TM13 Steering Group.

Industry Working Group (IWG)
The IWG are a key source of support and information. They actively support SoPHE activities, including the Annual dinner – London, the Summer dinner – Manchester, the Newsletter and CPD technical Seminars.

Election of Executive Officers
After the presentation the following Executive Officers were re-elected to serve for another year: - Chairman - Chris Northey, Vice Chairman – Ian Fellingham, Hon. Secretary – David Shaw, Hon. Treasurer – Martin Shouler.
SoPHE Chairman Receives Royal Recognition
Chris Northey Recognised by HRH The Duke of Edinburgh

Chris Northey, SoPHE Chairman and the Head of Public Health at BDSP Partnership has been awarded the Prince Philip Medal from City & Guilds’ President, HRH The Duke of Edinburgh. He personally presented Chris with his Medal at a special ceremony at the annual Prince Philip Medal ceremony at Buckingham Palace on 10th May 2011. Chris then joined Prince Philip for a prestigious lunch at the Ritz.

At just 17, Chris started as a plumbing apprentice within his family business, John Northey Plumbing and Heating, based in Truro. He continued his training by studying for the City & Guilds Craft and Advanced Craft Certificates in Plumbing before taking an approved plumbing apprenticeship and studying Building Services Engineering Design and Management.

Once Chris had graduated, he worked in a variety of positions, earning a Graduateship diploma in Engineering from City & Guilds along the way. Aside from his current position of heading up the Public Health Department within BDSP Partnership, Chris has been Chairman for both the CIPHE’s Incorporated Engineer panel and the SoPHE membership panel. In 2010 he was elected as the second Chairman of SoPHE. Chris was awarded the Medal for his outstanding leadership, ability and enthusiasm he has shown throughout his career in the Engineering industry.

The Prince Philip Medal was first established in 1962 to honour those who have, in The Duke of Edinburgh’s own words, ‘travelled the City & Guilds path’ and made the most of their talents. In line with his 90th birthday in June this year, Prince Philip will step down as President – a post he has held for 59 years.

Speaking about his success, Chris said: ‘It has been a great surprise and shock to me to win the Prince Philip Medal 2011. City & Guilds has always been an important part of my career development from the beginning up to the present day, and I’m honoured to have my work recognised’.

CEO and Director General of City & Guilds, Chris Jones said: ‘City & Guilds firmly believe in the importance of celebrating the achievements of both our current and past learners. It is an incredible honour to be highly commended for the Prince Philip Medals. Chris should be really proud of what he’s accomplished and I hope he sees further success in the future’.
I can think of nothing more poignant to write about than the natural disaster that has turned New Zealand on its head.

There will be very few people in the Northern Hemisphere, except perhaps friends and family of those in Christchurch, who may have some notion of the unimaginable hardship being endured by the people of Canterbury. We live in Auckland and are separated by a distance of approximately 670 miles, however we have a sister office in Christchurch and we are in regular contact, plus there is a constant flow of engineers between the two offices, so we get the word directly from the horse’s mouth.

I was recently approached by a UK journal to comment on the rebuilding of Christchurch in the South Island for a new series of articles highlighting ‘Plumbing on the Fringe’. I explained that the rebuilding of the city is still a long way off. In some areas, whole hillsides have collapsed sending huge boulders through houses and making some roads impassable. The city centre itself has been deemed a ‘No go’ area and has been cordoned off. Food remains in fridges slowly rotting and cars and people’s possessions remain unclaimed. Many suburbs are still without proper sanitation and rows upon rows of ‘Porta loos’ are a common sight. Residents are told to boil their water and electricity has been on and off like clockwork. Add to this the near freezing temperatures at night as winter approaches and maybe, just maybe you will start to get a feel for what they are going through.

Earthquakes happen around the world, that’s a common fact, and all experience a series of violent aftershocks. What makes the situation in Christchurch quite unique is the volume of aftershocks. Today being June 21 (and our official winter solstice) there have been a total of 3147 since February 22nd 2011! And if you want to know more about what is happening in real time go to <http://www.christchurchquakemap.co.nz/>

A colleague of mine was down in Christchurch last weekend in his role as one of NZ’s leading fire engineers, and his comment was that regardless how much we see on our TV screens, regardless how much we read and hear, nothing could have prepared him for the sheer level of destruction he witnessed. But not only is there the physical devastation to contend with, there is the mental anguish and potential health risks.

The city centre of Christchurch is the nearest one will find to an old English city in NZ. We had the fortune to visit there two weeks before the September 4th 2010 quake for a long weekend. Its majestic old cathedral formed the focus of what was a beautiful city and colourful trams trundled along brick paved roads. Schools such as Christ’s College with their stone masonry, and punting on the River Avon could have been plucked out of Cambridge.

Christchurch was hit by a 7.1 magnitude earthquake in the early hours of September 4th resulting in two serious injuries and a further 100 less serious. The fact that no one was killed owed itself more to timing as it struck at 4.35 am local time. The earthquake’s epicentre was 40 km west of Christchurch at a depth of 10 km. A foreshock of 5.8 magnitude hit five seconds before the main quake. The initial shake lasted about 40 seconds and because its epicentre was on the land away from the coast, no tsunami occurred.

Aftershocks continued into 2011, and the city hardly had time to catch its breath. Then on February 22 a 6.3 magnitude quake hit the already weakened city and killed 181 people. As well as collapsed buildings, trunk sewers, water and power lines were ruptured and in many instances, some had only just been repaired or completely replaced. As in the September quake liquefaction became the curse of the city. Due to the intense shaking during the earthquake, the loosely packed, waterlogged sediments oozed to the surface finding their way through cracks and crevices. In geologic terms, liquefaction refers to the process by which saturated, unconsolidated sediments are transformed into a substance that acts like a liquid.

Buildings collapsed, roads opened up and vehicles plunged into the liquefied ground. Armies of volunteers have climbed into action, clearing houses and street after street of liquefaction. Worse still was the seeping raw sewerage which mixes with the liquefaction to make a toxic cocktail.

And just as there seemed light at the end of a very long dark tunnel, a 5.5 aftershock hit the city on June 13 2011. Just how do you plan for a resurrection of the city under these conditions? Having lived in New Zealand for 7 years, I have absolutely no doubt whatsoever that Kiwi ingenuity will overcome the odds and a superior city will rise out of the quagmire. But for the immediate future it’s ‘porta loos’ and boiling water for the inhabitants of Christchurch.

By Les Wilson
It has long been the case that designers of new buildings consider the integration of low to zero carbon technology to assist in meeting stringent CO₂ targets laid out in Building Regulations. With the recent introduction of the Carbon Reduction Commitment Energy Efficiency Scheme (CRC) and Renewable Heat Incentive (RHI) there is a growing demand for such systems in the replacement and refurbishment market.

As space heating loads gradually reduce, with more efficient building fabric and air tightness measures, in many building types the production of domestic hot water is the predominant plant loading. This trend has lead to the popularity of decentralised systems, using direct gas fired water heaters, to negate the typical seasonal in-efficiency of large boiler plant operating during summer months to heat calorifiers.

This system arrangement lends itself particularly well to the integration of low carbon technologies; prime examples being the use of heat pumps or solar thermal energy to pre-heat the mains cold feed prior to entering into a water heater.

As shown in Fig 1 the integration of solar thermal technology is a relatively simple concept which is applicable to many buildings providing sufficient roof space is available to mount collector arrays. Given that solar thermal is included in phase 1 of the RHI it is anticipated that demand for such will increase in both the new build and retrofit markets.

*Figure 1: Solar Pre-Heat Solution*

When considering the application solar thermal energy the design of collector arrays is crucial to performance and longevity of system components.
At Baxi Commercial Division we offer three different collector designs which cover all possible applications:

**Glazed Flat Plate (Fig 2)**

Glazed flat plate collectors are the most familiar design having been on the market for many years. This collector type must be installed at an inclination between 20 and 45° to ensure adequate performance. With this in mind they are suited to installation on a pitched roof or with specific angled mounting frames for flat roof applications, in this situation spacing of collector rows must be considered to avoid inter row shading.

**Direct Flow Evacuated Tube (Fig 3)**

Evacuated tube collectors employ vacuum sealed collector tubes thereby vastly reducing thermal losses typically associated with the flat plate, this results in a significant efficiency improvement and is generally considered the most efficient method of generating solar hot water, even in wet and windy conditions. The collector comprises a number of tubes inserted into a manifold. The solar transfer fluid flows through each tube, hence direct flow.

Collectors are designed to allow the rotation of each tube to meet the desired inclination therefore it is possible to lay the collector flat on a flat roof or even vertically on a building façade. With this in mind evacuated tubes represent the most flexible and space efficient collector.

A recent introduction to our portfolio is the heat pipe collector. Very similar in visual appearance to direct flow evacuated tubes the heat pipe collector uses a dry pocket connection and condenser bulb principle. Each pipe contains a small volume of evaporator fluid, as the pipe warms up the fluid changes to a vapour and rises up the pipe to the condenser bulb. Within the manifold the solar transfer fluid is passed across the dry pocket that houses the condenser. The condenser releases the latent heat of evaporation to the solar transfer fluid and condenses, the condensate returns to the heat pipe and the cycle is repeated.

The heat pipes contain a temperature limiting device which operates at 130°C, in the event of low hot water demand and continued collector heat gain, a bi-metallic valve prevents the evaporated content of the pipe from entering the condenser bulb thereby protecting the glycol based solar transfer fluid from stagnation damage and eliminating unwanted heat transfer. This design feature makes heat pipes ideally suited to buildings with low summertime hot water demand or irregular demand patterns such as schools and sports facilities. Owing to this dry pocket design individual tubes can be replaced without draining down the solar system offering lifetime repair and maintenance savings. In order to allow the heat pipe evaporation cycle to operate the collectors must be installed with a minimum inclination of 20°.

All Baxi Commercial Division solar thermal offerings are based upon a fully filled pressurised arrangement; this system type has a proven track record of performance and reliability in the commercial sector. The alternative to a fully filled system is a drain back system, typically only employed on smaller domestic schemes owing to limitations on pipework arrangements, issues with air locks and collector inclination. The design of a drain back system is such that in periods of no hot water demand the content of the collector array drains back into a vessel thereby leaving the collectors full of air. Due to the hydraulic design of a drain back system it is typically only possible to employ glazed flat plate collectors therefore limiting application flexibility. As a drain back system relies upon a fixed amount of air, the water content must be accurately calculated and measured upon system filling; too much water will reduce system efficiency, too little will lead to poor circulation. In all instances the air content of the system can cause issues, especially the passing of air rich hot water though the system circulating pump, this will likely include air bubbles leading to the potential for cavitation damage and air locks. Clearly a well designed and appropriately applied sealed system offers the most efficient and flexible design solution free from the maintenance and component longevity issues inherent with drain back.

With our extensive portfolio of low to zero carbon technologies, comprehensive solar thermal offering and the market leading range of Andrews Water Heaters, Baxi Commercial Division offer a true one stop shop solution to all your project requirements with unparalleled specialist application support.
NEW MEMBERS

**Associate Member**
- David Jonathan Hayes
- Michal Mrozowski
- Adriana Lisowska
- Malgorzata Grabowska
- Jae Young Shim
- James Day

**Member**
- Saul Everett
- Jassim Daureeawo
- Jeffrey Horwood
- Tomasz Grabowski
- Tony Convery
- John Godowski
- Jason Turner

**Fellow**
- Stanley Charles Levett

**Industrial Associate**
- Vivreau Ltd

USEFUL WEBSITES AND EMAILS

The Chartered Institution of Building Services Engineers
www.cibse.org

Society of Public Health Engineers
www.cibse.org/sophe

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- Allan Homewood
  allan.homewood@mottmac.com

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- Chris Northey- chris.northey@bdsp.com
- Paul Angus - paul.angus@wspgroup.com

Education Group:
- Ian Fellingham – ian.fellingham@googlemail.com

SoPHE Industrial Group:
- Mike Darville (Chairman) – mike.darvill@roth-uk.com

SoPHE South East Forthcoming Technical Seminars

**Date:** 6 September 2011  
**Time:** 6:30 – 7:30pm  
**Topic:** TBC  
**Venue:** London (Venue TBC)

**Date:** 4 October 2011  
**Time:** 6:30-7:30pm  
**Topic:** High Rise Drainage Design  
**Venue:** AECOM, The Johnson Building, 77 Hatton Garden, London EC1N 8JS

**Date:** 22 November 2011  
**Time:** 6:30-7:30pm  
**Topic:** TYCO – Gaseous Suppression Fire Systems  
**Venue:** TBC

SoPHE South West Forthcoming Technical Seminars

**Date:** 15 September 2011  
**Time:** 6.00pm for 6.30pm start  
**Venue:** Arup, 63 St. Thomas Street, Bristol, BS1 6JZ  
**Topic:** Yorkshire Copper Tube (John Ryan, Technical Manager) - Copper Tube in Modern Water System

The talk will primarily highlight ways of avoiding potential corrosion problems. A few exhibits from Yorkshire’s “black museum” of failures. These issues should generate lots of questions and discussion, so we’re expecting a lively evening.

**Date:** 17 November 2011  
**Time:** 6.00pm for 6.30pm start  
**Venue:** Arup, 63 St. Thomas Street, Bristol, BS1 6JZ  
**Topic:** Pipework corrosion - The failings of installations

Main speaker David George. Following on from September’s theme David will show the finding from a project and explain the time line for the pinholing of pipework within 3 months of building occupation. The evening will highlight the conflicts in manufacturer’s instruction, Codes of Practice and other traditional workmanship procedures that can accelerate corrosive environments.

SoPHE North West Forthcoming Technical Seminar

**Date:** 21 September 2011  
**Time:** 6:00pm for 6:30 Start  
**Topic:** Underfloor Heating (Matthew Miller & Ernie Fisher from Polypipe Terrain)  
**Venue:** The Rain Bar, 80 Great Bridgewater Street, Manchester M1 5JG

SoPHE Scotland Forthcoming Technical Seminar

**Date:** 9 September 2011  
**Time:** 4:30 - 6:30pm (TBC)  
**Topic:** Joint World Plumbing Council / SoPHE event. Guest speakers from around the World  
**Venue:** Edinburgh
SoPHE North West Update

By Malcolm Atherton

A technical presentation by GIRPI entitled “Innovative thermoplastic Building Service Systems” took place on Wednesday 16th March 2011. This evening was attended by a mixed number of SoPHE & CIBSE members in which the presenters – Dave Dickson & Eric Martin – firstly introduced who GIRPI were, a brief description of the background to GIRPI, as well as introducing / describing their ‘System O’ pipework for domestic water & heating systems. The various benefits of the pipework material (cPVC) & the system were discussed especially in terms of it limiting the promotion of bacteria development phenomena i.e. corrosion, scale, biofilm. The presentation lasted approximately an hour with the evening finishing with a light buffet, together with much discussion about the benefits of the GIRPI system.

This was swiftly followed on Wednesday 18th May 2011. This time the presentation was provided by Oventrop entitled “Automatic thermostatic balancing, system pasteurisation and legionella control of DHW secondary circulation systems.” Again, this event was well attended by a mixed number of SoPHE & CIBSE members in which the presenters, Chris Doherty & Ian Anderson, provided a very interesting presentation, in which many questions were taken at the end. The evening finished with a light buffet and much discussion.

At the time of writing, the next technical presentation is due to take place on Wednesday 20th July 2011, & is to be provided by Horne Engineering. The title of the presentation is “Thermostatic Control Technology.” This presentation was previously arranged to take place in March 2011 but, due to unforeseen circumstances, had to be cancelled at the last minute. We do hope that as many as possible are able to attend – the more, the merrier.

SoPHE Scotland Update

By Paul Angus

The weather in Scotland is highly unpredictable although was blue skies and the sun had been shining all day, which was fitting for the theme of this technical evening entitled, Hot water solutions for a changing climate. The technical evening was kicked off by Phil Meir of Lochinvar, who provided a brief overview of direct gas fired hot water generation. Phil explained the drivers behind the development the current and future legislation in hot water technology. He also gave an overview of the content and relation to other relevant standards and an insight into recent and future developments.

The discussion of renewable hot water technology continued, leading nicely into the second presentation of the evening “Solar Thermal and its integration with Commercial and Industrial Hot Water Systems”. Steve Addis, of Lochinvar provided a very interesting and lively presentation primarily focusing on the terminology and facts surrounding Solar, dispelling many of the myths that surround this technology. Steve went into great depth explaining the theory in the assessment of solar hot water systems, as well as discussing the differences between systems referred to hot water pre-heat, commercial and swimming pool applications.

Both discussions raised a lot of questions relating to issues, such as the cost-benefit of solar hot water and the practicality of solar hot water systems in the UK. It was clear from the evening’s proceedings and the lively Q&A and discussion sessions that took place that there is a great deal of interest in solar hot water systems. Sustainable solutions and innovations will undoubtedly have a place in any integrated approach to water and energy management. As demonstrated within the presentation with the correct planning, design and installation, these techniques will surely become main stream in assisting in energy efficient designs. It was of no surprise that this technical evening should be so well attended by such a diverse range of delegates from a whole range of different disciplines, including Consulting Engineers, Contractors, Architects, Students & Academia, as these events are becoming ever increasingly popular.

At the time of the newsletter being collated, the next technical presentation “Water conservation via greywater recycling” will take place on Tuesday 28th June 2011 at the Bonham Hotel, Edinburgh, being provided by Aquality. This will be followed on 9th September with a joint presentation in conjunction with the World Plumbing Council conference being held in Edinburgh.

A full programme of SoPHE technical presentations can be found on the CIBSE SoPHE website: http://www.cibse.org/index.cfm?go=page.view&item=545
THE STEERING COMMITTEE

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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