

## **SoPHE Newsletter Issue No.2 June 2003**

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**The Society of Public Health Engineers is a part of the Chartered Institution of Building Services Engineers (CIBSE):**

**Chairman: Martin Shouler**  
**Email** [shoulerm@bre.co.uk](mailto:shoulerm@bre.co.uk)

**Honorary Secretary: Chris Northey**  
**Email** [cnorthey@zbp.co.uk](mailto:cnorthey@zbp.co.uk)

### **SoPHE LAUNCH**

The Official Launch of  
The Society of Public Health Engineers

To mark the official launch of SoPHE you are invited to join us for a cruise on the River Thames aboard the Golden Jubilee.

Location: Temple Pier  
Date: 19 June 2003  
Departure Time: 6:00pm

**A very special thank you to:  
Geberit, Reliance, Saint Gobain,  
Vernagene and Hydrotec for their  
support and sponsorship of the SoPHE  
Launch Party.**

### **MESSAGE FROM THE CHAIRMAN**

Welcome to the second edition of our newsletter. As you will be aware, we have reached an important landmark for our new society as the 19 June 2003 will be the official launch of The Society of Public Health Engineers. You should have received your personal invitation to the riverboat cruise (a photograph of the boat can be seen in the opposite column), along the River Thames to mark our launch and I hope to see you on board. This will provide an opportunity to celebrate the creation of the society designed to meet the needs of Public Health Engineers as well as an opportunity to catch up with colleagues in the industry.

Over the last few months we have received applications for Members (MSoPHE) and Fellows (FSoPHE) of the Society. The Membership Panel convened to review applications and I am happy that this newsletter carries the names of our first batch of Members.

I hope you will agree with me that the Technical Panel have provided us with a stimulating and informative series of evening technical seminars which have been supported by our Industrial Group. Seminars are programmed for the next 12 months and the steering group would welcome feedback on the programme and future topics for inclusion. This newsletter sees the inclusion of more technical information and references which I hope will assist you in your professional role.

On a personal note, I would like to thank the hard work and dedication shown by the members of the Steering Group and CIBSE staff who have got us to this point in our development.

Martin Shouler, Chairman SoPHE

## HOW TO JOIN

See page 5 of this newsletter for details on the grades of membership for the Society.

## EVENTS

### **Forthcoming Technical Presentation Evenings**

Date: 23<sup>th</sup> September 2003  
Venue: O'Neills Function Room  
Conway Street, London  
(subject to confirmation)  
Start Time: 6.30pm (1 Hour)  
Presenter: **Thames Water Plc**  
Dave Brindley, Water Regulations  
Manager

Discussion on items within the Regulations which require clarification and risk assessing, relating to contamination, back siphonage etc.  
Non CPD Event

Date: 23<sup>th</sup> November 2003  
Venue: O'Neills Function Room  
Conway Street, London  
(subject to confirmation)  
Start Time: 6.30pm (1 Hour)  
Presenter: **Clay Pipe Development  
Association Ltd**  
Les Richardson

An overview of Building Regulations 'H', Parts H1-H6  
Drainage and Waste Disposal. Effective 1<sup>st</sup> April  
2002.  
Non CPD Event

Date: 24<sup>th</sup> February 2004  
Venue: O'Neills Function Room  
Conway Street, London  
(subject to confirmation)  
Presenter: **KSB Ltd.**  
Mitch Dobman  
Grey Water Re-cycling for various types of buildings.  
General over view on the design principles with  
advantages and disadvantages on the possible  
options of reusing water.  
CPD (1 Hour) *Credit Certificated event*

Date: 27<sup>th</sup> April 2004  
Venue: O'Neills Function Room  
Conway Street, London  
(subject to confirmation)  
Presenter: Spel Products  
Paul Polcox  
Surface water/Foul water Puraceptors, Stormceptors,  
both full retention and by-pass types. Sizing, Alarms,  
Regulations and update on the latest Rivers Authority  
Requirement etc

Date: 18<sup>th</sup> May 2004.  
Venue: O'Neills Function Room  
Conway Street, London  
(subject to confirmation)

Presenter: **Buckingham Pools**  
Dennis Ledbrooke

Design principles for swimming pools. The presentation  
will include an overview, design considerations,  
chlorine, UV, monitoring etc.

Date: 22<sup>nd</sup> June 2004.  
Venue: O'Neills Function Room  
Conway Street, London  
(subject to confirmation)

Presenter: **BRE**  
Control of Legionella Bacteria in water systems.

### **OTHER OPTIONS BEING CONSIDERED FOR FUTURE PRESENTATIONS**

- A) Understanding and evaluating Health & Safety  
Risk Assessments relating to PHE work.
- B) Contract documents for PHE works with regard  
to responsibilities, duties and penalty clauses,  
etc.
- C) Asbestos and the risk associated (H & S).
- D) Sizing of small/medium sewage treatment  
package works, BOD, COD, etc.
- E) Sizing principles of syphonic rainwater  
systems.
- F) Roof drainage, assessing risk, intensity etc.  
under BS EN 12506-3

### **PREVIOUS TECHNICAL EVENTS**

- 1 **TYCO/WORMALD FIRE SYSTEMS.** Life and  
building fire protection  
Contact: [www.wormald.co.uk](http://www.wormald.co.uk)
- 2 **MARLEY PLUMBING.** Sanitation sizing to BS12056,  
Part 2.  
Contact: [marleyplumbinganddrainage.com](http://marleyplumbinganddrainage.com)
- 3 **HYDROTEC UK LTD.** Technical overview of physical  
water conditioners and ultra violet disinfection.  
Contact: [www.hydrotec.co.uk](http://www.hydrotec.co.uk)
- 4 **A O SMITH (WATER PRODUCTS Co).** Assessing,  
sizing of direct and storage type hot water heaters for  
commercial/industrial applications, giving consideration  
to latest building regulations.  
Contact: [www.hotwater.com](http://www.hotwater.com)
- 5 **VERNAGENE.** Chlorine dioxide, Disinfection.  
Understanding the principles of dosing with  
consideration to health and safety aspects.  
Contact: [www.vernagene.com](http://www.vernagene.com)
- 6 **NEW HADEN PUMPS.** The design and sizing of both  
foul and surface water pump sump chambers and  
stations.  
Contact: [SouthEast@NHPumps.com](mailto:SouthEast@NHPumps.com)
- 7 **ALLAN AQUA LTD.** design principles for boosted  
cold water and fire services relating specifically to high  
rise buildings.  
Contact: [www.allanaqua.co.uk](http://www.allanaqua.co.uk)

## PUBLICATIONS

CIBSE Guide G Public health engineering

CIBSE Guide C Reference data

CIBSE Guide F Fire engineering

CIBSE Guide H Building control systems

A complete list of CIBSE Publications and price list is available from the CIBSE website [www.cibse.org](http://www.cibse.org)

Later this year CIBSE Guide B will have been totally revised and reissued in five Volumes two of which have been issued B2 and B5 and three which will be issued over the next few months i.e. Heating, Ductwork and Refrigeration.

The Institute of Plumbing – Plumbing Engineering Services Design Guide (2002)

Commissioning Code R

## NEWS AND INFORMATION

(Old and New)

1 New Building Regulations changes/modifications/amendments  
Document 'H' Drainage Parts H1-H6  
Document 'J' Combustion appliances and fuel storage systems  
Document 'L' L1 and L2  
Document 'G' G1 – G3  
All implemented 1 April 2002

2 Material changes occurring (PVC-u/MuPVC)  
Soil and waste pipe work BS4514, 5255 and 5254 are being phased out. New replacements BS/EN 1329, 1451 and 1455. Contact major manufacturer for phasing dates and details.

3 Legionnaires Disease. To educate/inform any employer/landlord/owner etc with regard to his responsibilities relating to Legionnaires Disease. See HSE small 9 page booklet entitled 'Legionnaires Disease. A Guide for Employers'.  
Other helpful documents:  
Operation and Maintenance. AG19/2000. Risk Assessment AG20/2000.  
Legionellosis Control Log Book AG21/2000. Contact HSE Tel No. 01787-881165, Fax 01787-313995

4 Last summer a new strain of Legionella was reported from America. This was found in the domestic arena rather than in commercial premises. Of most concern, was that it could withstand higher water temperatures than previous strains, almost up to 60°C. Inhibiting the growth of bacteria in stores hot water, therefore, requires water temperatures to be maintained above 60°C. Unfortunately, this storage temperature is well above the level for safe discharge from taps and showers. *Extract taken from Heating, Ventilating and Plumbing, March 2003.*

5 **Note:** In forthcoming publications an item may be allocated for a manufacturer to advertise a new technical product, or event. To be confirmed.

6 It is proposed that all companies presenting technical events will issue a hard copy or a web page summarising presentation. This will enable members who were unable to attend presentations to see a summary of the event

## MEMBERS FORUM

This section will enable members to raise or ask questions relating to specific projects or design items for comments or guidance. This would enable other members to assist by explaining or giving design advice, considerations, or stating where/which BS Codes or authorities could be contacted in answering original questions.

1. **Q** - I have recently designed all the internal sanitation pipe work for a small hospital using cast iron pipe sizes of 100 & 150Ø, this includes all the internal suspended sanitation pipe work within underfloor ducts. The client is looking for cost savings on the sanitation. What material would you suggest changing to and why?
2. **Q** - I am currently designing PHE services for a 20 storey office block in London. The client wishes to be as environmentally friendly as possible, we are therefore considering harvesting roof rainwater and greywater (basin and shower waste). Would you harvest both the rainwater and waste water together or separately, and where would you go for design guidance on this matter?
3. **Q** - I have recently been challenged by a Building Control Officer regarding the hydraulic capacity of discharge stacks for kitchen wastes. The branches are 40mmØ entering a 80mmØ stack via bossed connections. The Building Control Officer says the Hydraulic capacity of the stack given in BS12056-2-2000 should be taken as 'square entries' i.e. the capacity is reduced from 2.6l/sec to 2l/sec for a 80mm stack.

**A** - Our view is that the 'square entries' column in Table 11 of BS 12056-2 relates only to branch connections to stack of equal diameter. In section 3.2.5, a square entry is defined as an 'equal branch junction'. Furthermore, in National Annex NC.2.3 'shape and size of branch inlets', it states that branch inlets which are significantly smaller in diameter than the stack are not so critical.

Please forward any questions, comments or answers you may have to the above points to:

[awatson@cibse.org](mailto:awatson@cibse.org)  
[jonathan.gaunt@arup.com](mailto:jonathan.gaunt@arup.com)

### USEFUL WEBSITES and e-mails

[www.cibse.org](http://www.cibse.org)

#### Society of Public Health Engineers

[www.cibse.org/sophe](http://www.cibse.org/sophe)

#### Technical Group:

Alan Neall – [aneall@foremans.com](mailto:aneall@foremans.com)

#### Membership Group:

Martin Shouler - [shoulerm@bre.oc.uk](mailto:shoulerm@bre.oc.uk)

#### Communication Group:

Alan Watson - [awatson@cibse.org](mailto:awatson@cibse.org)

#### ODPM Building Regulations:

[www.safety.odpm.gov.uk/bregs/brads.htm](http://www.safety.odpm.gov.uk/bregs/brads.htm)

#### Supplementary guidance by individual water companies on Sewers for Adoption 5<sup>th</sup> Edition:

[www.wrcplc.co.uk/sfa](http://www.wrcplc.co.uk/sfa)

### 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 Alan Watson [awatson@cibse.org](mailto:awatson@cibse.org) or write to Alan at 222 Balham High Road. London SW12 9BS.

### New SoPHE Members

Mr. G R Barber  
Mr. M J Best  
Mrs. J Bousfield  
Mr. P H Farren  
Mr. D W Jones  
Mr. Mike Jones  
Mr. A Pelham  
Mr. M Yarham

### DATES FOR YOUR DIARY

19 June 2003	SoPHE Official Launch
Location:	Golden Jubilee Boat Temple Pier
Time:	6:00pm
24-26 September	The 2003 CIBSE/ASHRAE Conference – “Building Sustainability, Value & Profit”
Location:	Edinburgh International Conference Centre

For technical evening dates, refer to ‘Forthcoming Technical Presentation Evenings’.

### THE STEERING COMMITTEE

Chairman: Martin Shouler  
[shoulerm@bre.co.uk](mailto:shoulerm@bre.co.uk)

Honorary Secretary: Chris Northey  
[cnorthey@zdp.co.uk](mailto:cnorthey@zdp.co.uk)

Communications Group: Alan Watson  
Jim Buckmaster

Technical Group: Alan Neall  
Alison Franklin  
Roger Baker  
David Shaw  
Jonathan Gaunt

Membership Group: Martin Shouler  
Chris Northey  
Bill Bumstead

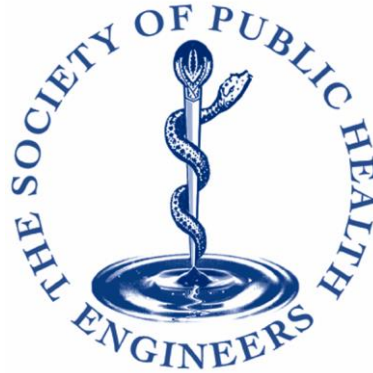
CIBSE Jonathan David

### Regional Committee Contacts

Manchester:  
Kate Longley  
[kate.Longley@arup.com](mailto:kate.Longley@arup.com)

### Steering Group vacancies

- The Society of Public Health Engineers Steering Committee requires a member to take on the role of Honorary Treasurer for the society. If you are interested in taking on this important role, please contact Martin Shouler ([shoulerm@bre.co.uk](mailto:shoulerm@bre.co.uk)) directly for further information.



**To find out more about CIBSE and the Society of Public Health Engineers go to the CIBSE website [www.cibse.org/sophe](http://www.cibse.org/sophe) or write to:**

CIBSE  
Society of Public Health Engineers  
222 Balham High Road  
London  
SW12 9BS, UK

Tel 020 8772 3622  
Fax 020 8673 3302  
E-mail [j david@cibse.org](mailto:j david@cibse.org)

**Application forms can be downloaded from the SoPHE Web site ([www.cibse.org/sophe](http://www.cibse.org/sophe)), along with all subscription rate details.**

**Those wishing to join SoPHE who are already members of CIBSE should complete the Membership Form M2 while those wishing to join SoPHE who are not members of CIBSE should complete the non-CIBSE member form M1.**