



Index

Autumn/Winter 8-Page Edition 2012



NEWSLETTER OF THE COMMISSIONING SPECIALISTS ASSOCIATION

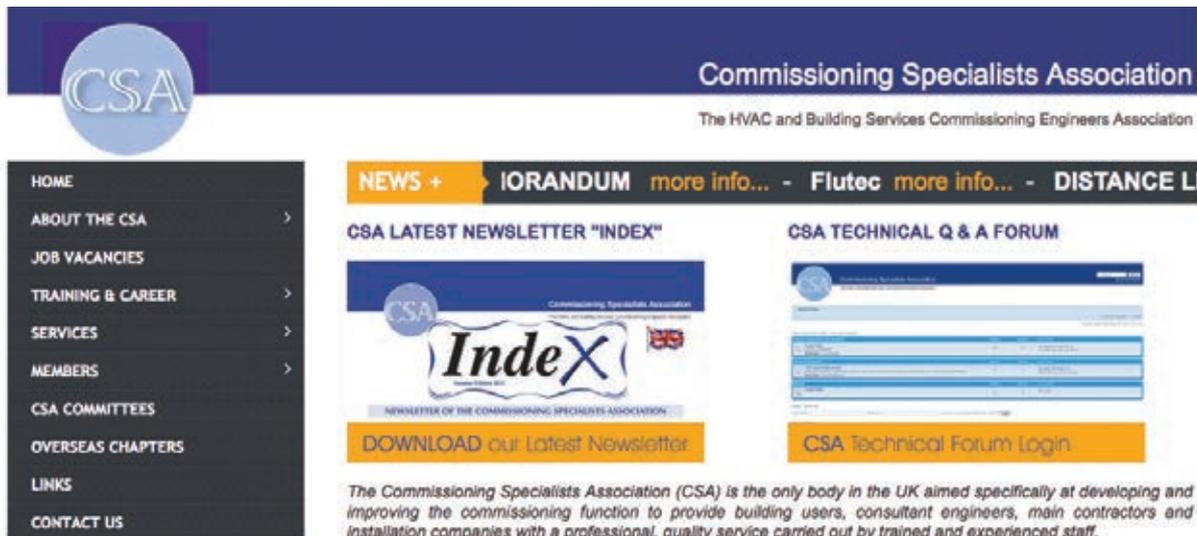
THIS ISSUE OF INDEX IS JOINTLY SPONSORED BY

**TSI INSTRUMENTS LTD, CROSSCOUNT LTD and
ASHFORD ENVIRONMENTAL SERVICES LTD**

CSA NEW WEBSITE

We have a new website which has been designed to be more “user friendly” and based around the most commonly asked questions we receive in the CSA office. Please take a few minutes to look at the changes – www.csa.org.uk

There is a new facility, which is currently only available to Corporate Members, entitled JOB VACANCIES. This gives Corporate members a “value for money” way of advertising job vacancies within their organisation and Commissioning Engineers can apply to them direct.



NEW MEMBERS

Since the last issue

Corporate – HVAC Solutions Ltd (NZ), New Zealand. **Associate** – Tyco Fire Integrated Solutions, Aberdeen.

Individual – Roy Duncan, Paul Campion, Cathal Carlin, Stephen Marshall, Daniel O’Rourke, Dean Wilson, Hazim El-Ahwany, Michael Boardman, Mark Percy, Robert Henrys, Stuart Holloran, Lee Grayson.

Individual Associate – Kris MacIntyre, Mayur Kale.

We would like to welcome the above new members to the Association



Jules' News



Here we are again, at the end of another year, where does the time go? We have another 8-page special edition for you, incorporating both Autumn & Winter 2012, which I hope you will find informative and interesting.

Corporate members will have received an e-mail from me with an attached list of their engineers who are registered with the CSA as Individual members. Could you please confirm that they still work for you as quickly as possible to ensure that there is no confusion when you receive your membership renewal invoices in January 2013.

A new payment structure has been put into place by the Committee for 2013. There will be an initial increase of 20% for all membership fees which will be deducted if payment is received within the first 90 days from the date of invoice and a 10% discount if payment is received within 3-6 months from date of invoice. Anyone who pays after this will have to pay the full amount of the original invoice, so prompt payment is important to ensure you receive the discounted rate. (If you wish to pay by Standing Order – please contact me as soon as you receive your invoice to ensure you are entitled to receive the discount).

Once payment is made, you will receive a new membership certificate which will now be colour coded each year. The new certificate for 2013 will be blue with an expiry date – see example below. This identifies current members, of all categories, of the CSA. Anyone who is not in receipt of one of these new certificates is NOT a current member of the CSA.

NEW MEMBERSHIP CERTIFICATE & I.D. CARD FOR 2013

Example of Individual Membership ID Card



Example of new Membership Certificate 2013



We have recently had a 'spate' of LAPSED MEMBERS wishing to re-new their CSA membership. All categories of previously lapsed members have to re-apply for membership by completing the latest application form, providing CVs, references etc., and will now have to pay an additional Administration Fee of £75.00 for Corporate members and £20 for Individual, Individual Associate and Associate members.

I hope you have paid attention to all the important information throughout this edition, as I'll be asking questions later!

It just leaves me to say a big thank you to all our Members, Committee members, Tutors and everyone who supports us and long may it continue. Wishing you all a Very Happy Christmas and see you all in the New Year, let's hope it's a good one for you all!

Julie Parker - CSA Secretary



As we reach the end of yet another calendar year the time feels right to reflect over the past twelve months, the highs and the lows both personally and professionally.

With regard to the Commissioning Specialists Association it has been an interesting 12 months, income is down yet expenditure is up which is a situation I believe many businesses and organisations can relate to. A slightly disturbing trend is income from the distance learning courses is significantly lower than the previous 12 month period. This is something we as members, particularly corporate, can do something about, so I am going to put my money where my mouth is and commit to enrolling 2 of our trainees on DLC A before the end of 2012. If I do not Michelle at the CSA office can name and shame me in the next edition of Index, how is that for a challenge! We are also hopeful that overseas chapters and on line examinations will come to fruition within the next twelve months. Matthew Ward (Vice-Chairman) and Julie are working tirelessly on this and we are hopeful this will become a much needed income stream for the future. Of course we will also benefit financially once the new Compendium goes to print.

I have elected to represent the CSA on the new BSRIA Guide to 'Commissioning Air Systems' and myself apart the CSA is well represented on the steering committee for this publication. It is also worthwhile mentioning that the BSRIA documentation 'Soft Landings', is, I believe, in the process of being incorporated into the procurement process for Government buildings.

With regard to my own business it has undoubtedly been a tough 12 months, turnover has remained pretty consistent but trying to make money, well need I say more!? On a lighter note 'Movember' seems to grow (no pun intended) more popular each year in our organisation, last year 2 of our guys took the plunge and this year 4 were motivated to do so. Next year I may make it official and take the plunge myself, it is a most fantastic cause!

A project we have been proud to be associated with this year and during 2011 is the new Laboratory of Molecular Biology built on behalf of the Medical Research Council by BAM Construction. This 27,000 square metre (NIA) represents an X-shaped chromosome and houses some 400 scientists and 200 support staff and, at the time, boasted the largest ground source heat pump system ever installed in the UK. Another project of note completed in 2012 and again, Crosscount Limited were employed directly by BAM Construction, was the 40,000 square metre Network Rail National Centre located in Milton Keynes. To finish the year we have just carried out a validation survey of a data centre located in Denmark on behalf of a blue chip client, so there has been plenty to keep us busy!

On a more personal note what a year for British Sport, from the Tour de France, Andy Murray in the U.S Open, Chelsea in the Champions League, GB's heroic Olympians and then finally the English rugby team defeating the All Blacks. We have much to be proud of!

Neil F. White – Managing Director – Crosscount Limited

Ashford

Environmental Services Limited

Ashford Environmental Services Limited is recognised as one of the UK's leading commissioning and water treatment specialists, providing an integrated "one-stop" service to industry and commerce. Now in its sixteenth year, Ashford continues to grow both financially and geographically, undertaking projects throughout the UK, Europe and the Middle East.

If you want a fresh pro-active approach backed up by a wealth of experience and a management philosophy of continuous improvement in service and performance, then contact us now. One of our directors will be happy to meet with you to discuss how Ashford can enhance the service that you provide.

Water Treatment

- Pre-commissioning cleaning design appraisal
- Management of filling, venting and pressure testing
- Automatic dosing equipment for filling and ongoing maintenance
- Inhibiting/biocide dosing of pressure test water
- Flushing to BSRIA BG29/2012
- Minimal discharge cleaning of closed systems
- Hydrosphere™ techniques
- Precommissioning cleaning of closed systems
- Bio-wash processes
- Microbiological and chemical analysis
- Site survey and risk assessment
- Chlorination/disinfection to BS6700 & HSE ACOP L8
- L8 compliance and survey
- Closed system water quality monitoring and maintenance
- Boiler and cooling tower maintenance/cleaning/refurbishment
- Cooling tower decommissioning
- Supply/maintenance of water softeners
- Supply of dosing pots, air/dirt separators, sample coolers
- Tank cleaning/replacement/refurbishment
- Remote monitoring/control of dosing plant
- Corrosion rigs and coupon racks
- Temporary pumping
- Sale and hire service

Commissioning Services

- Commissionability appraisal
- Systems validation
- Commissioning advisory service
- Commissioning management and supervision
- Commissioning testing and balancing
- Commissioning documentation
- Pre-commissioning checks and fault finding
- Plant functional analysis
- Environmental monitoring
- Plant operation
- Plant inspection and testing (site or works)
- Site supervision
- Staff instruction and training
- Systems development, design evaluation

General Services

- LEV compliance assessment
- Planning, procedures and specifications
- Installation co-ordination
- Quality assurance techniques
- Site surveys
- "Clerk of works" function
- Construction supervision



25 Bank Street



62 Buckingham Gate



123 Victoria Street



Park House

Ashford Environmental Services Limited
The Offices, Mill Mead, Staines
Middlesex, TW18 4UQ.

Tel: +44 (0) 1784 465838
Fax: +44 (0) 1784 465848
General email: services@ashford-group.co.uk
Web: www.ashford-group.com

Also at:
Unit 82, Enid Street, London, SE16 3RA.



SAFEcontractor



BSRIA Member



Accredited Contractor
www.has.gov.uk



AIRFLOW MULTIPURPOSE CAPTURE HOOD DESIGNED TO SAVE TIME AND MONEY

The volume of air emerging from grilles and diffusers is a critical measurement in HVAC systems. Such measurements were traditionally taken using a deflecting vane anemometer with a diffuser probe and applying the diffuser manufacturer's "Ak" factors.

Capture hoods have replaced the deflecting vane anemometer with diffuser probes due to their ease of use, quick measurements, and near elimination of the need to apply grille manufacturers "Ak" factors. It still may be necessary, however, to develop a correction factor to apply to the measured reading to compensate for the varying duct and diffuser outlets encountered in the field. Primary benefits for air balancing using capture hoods include one-step direct volume measurement, time savings, ease of use, and convenience.

The AIRFLOW ProHood® Air Capture Hood PH731 is a multipurpose electronic air balancing instrument for reading air volume flow at diffusers, and grilles. It uses a micromanometer with differential pressure sensors. These meters also contain zeroing valves which automatically zero the pressure sensor during normal operation. These auto-zeroing micromanometers are similar to standard digital micromanometers in that they do not require any kind of leveling and are not position sensitive. Additionally micromanometers with an auto-zeroing function and a high resolution pressure sensor measure lower pressures and velocities with higher accuracy than standard digital micromanometers. This allows them to be used with a variety of different pressure based probes in addition to the standard pitot probe.

The meter on the PH731 is an extremely versatile instrument that can be detached from the hood assembly and used with common HVAC pressure-based testing probes such as a pitot tube, velocity matrix, air probe, and static pressure probe. Additional measurements for relative humidity and temperature can be obtained by attaching optional probes to the meter which further enhances the versatility of the instrument. Thermal Anemometer probes can also be attached to the PH731 meter to perform duct traverses.

The meter consists of a sensitive pressure sensor, zeroing valves and sophisticated electronics housed in a sturdy but ergonomic plastic case with buttons that are well suited for easy access when the meter is held above head level.

It is ideally suited for commissioning agents, facilities managers, health and safety specialists, test engineers, and test and balance professionals in many applications including thermal comfort studies, HVAC testing, adjusting and balancing as well as air volume measurements.

This ultra light weight, ergonomically designed kit saves time and money while helping to create a healthy and energy efficient environment.

Simon Tebb, Sales Manager – TSI Instruments Ltd

ENHANCED PRODUCTIVITY, PROFESSIONAL PERFORMANCE

The NEW Airflow ProHood Capture Hood PH731

- Provides **accurate measurements** to meet industry standards
- Easy **one-person operation** - ergonomic, lightweight construction
- Perform multiple jobs with one instrument - **various hood sizes** available
- Detachable digital micromanometer offers **maximum flexibility**

Learn more at www.tsi.com • Tel: 01494 4 459200 • Email: tsiuk@tsi.com



New Features for Enhanced Productivity

- Wireless communication
- Integrated applications
- Simple, large display
- Multiple probe options



CHAIRMAN'S RANT

This will be my last 'Rant' in *Index* as Chairman of the CSA, as my two-year tenure comes to an end in April 2013 and Matthew Ward will be taking up the reins as Chairman.

There is a tremendous amount of work and dedication by a number of members on committees and individually who give up their time to enhance the profile and recognition of the CSA as a respected professional body in the building industry. Committee members work continually on your behalf to keep all technical literature and learning materials updated.

Members of the Technical Committee have been working tirelessly on updating the Commissioning Engineers Compendium and we are very optimistic that this will be released early 2013. This is an invaluable tool which is a must for all engineers which will be produced in a new, more portable, A5 format.

The new website is now up and running, which is more efficient and easy to navigate and includes a number of new sections. Julie and Michelle, in the CSA office, have worked hard to put this into place so please take a little time to look at the website.

As this year draws to a close, I would like to urge all members, Corporate, Associate, Individual and Individual Associate, to maintain their membership in 2013 to keep the CSA at the forefront of the Building Services, Commissioning & HVAC industries. The CSA has come a long way, let us all ensure its continued success. It only remains for me to wish you all a Merry Christmas and a Healthy and Happy New Year.

Neil F. White

Managing Director, Crosscount Ltd & Chairman of the CSA

GRADE 4 EXAM RESULTS HELD 27 OCTOBER 2012

Congratulations to those listed below who passed the Grade 4 Exam:

SHAUN FRAWLEY, GARY WEIR, WAYNE WILD, SIMON JELLEY, ADAM MILLS, EWEN BEATTIE

The next Grade 4 exam will be Saturday 18th May 2013 and costs £50.00. Anyone wishing to take this exam should e-mail the CSA office (e-mail: office@csa.org.uk) as soon as possible and we will e-mail you a 'mock' paper which gives an example of the type of questions you are expected to answer. There are approximately 25 questions on the actual papers. We always endeavour to make sure you take the exam locally in your area and we require 2 weeks cancellation notice or you will be charged the full amount.

Distance Learning Course (DLC) TEST RESULTS

Congratulations to those listed below who have recently passed the DLC A, B tests & DLC C course:

DLC A

ADAM HARRIS, HUSSEIN TAHER, MIROSLAV KYSEL, ANDREW ATHERTON, ANDREW DOBSON.

DLC B

GRAEME DUNCAN, CHRISTOPHER BROWN.

DLC C

THOMAS DUNN.

If you would like to enrol on a DLC Course – download the appropriate enrolment form from the CSA website www.csa.org.uk, complete this in full and send/e-mail it to the CSA office with payment and Michelle will send the course out to you with the course procedure and details of your allocated tutor.

If you enrol on one of our Distance Learning Courses and also wish to apply for Individual membership at the same time you can receive the first year's Individual membership free! All you need to do is, again, download the latest Individual membership application form from the CSA website, under members section. This form must be completed in full, do not leave any sections unanswered or it will be rejected, then e-mail the application form to the CSA office office@csa.org.uk with your current CV and a photograph. This is then sent to our Assessment panel for approval and grading.

Distance Learning Courses – Frequently Asked Questions

HOW DO I ENROL ON A DISTANCE LEARNING COURSE? - Download the latest enrolment form from our website, the Distance Learning section under the Training & Career heading. Once completed the form can be posted or emailed to us. Payment can be made by cheque, credit / debit card or bank transfer. Your course will be sent out to you once payment has been received.

HOW IS THE COURSE ISSUED? - When you enrol, you will be sent a folder containing the first 3 modules and all the course information. All other modules are emailed out to you in batches of 3 as you send in your homework to be marked.

HOW LONG DOES THE COURSE RUN FOR? - Up to 12 months – if you go over the time an administration fee will be charged.

WHAT HAPPENS WITH MY HOMEWORK? - Homework should be emailed in to office@csa.org.uk or you can post it. It is sent off to your tutor for marking by me, it will then be returned to you by post.

HOW DO I CONTACT MY TUTOR? - The welcome letter in your folder contains all your tutor's details. You can contact him directly or by emailing office@csa.org.uk.

WHAT HAPPENS WHEN I HAVE FINISHED ALL THE COURSEWORK? - For DLC A & B: When your final homework is returned to you, a test paper will be sent to your employer, who will liaise with you when to sit the test within a month of its issue. The completed test is returned to the CSA for marking. For DLC C: There is no test, your tutor will assess all your coursework. With all the Courses a Certificate will be issued following successful completion.

WILL MY GRADE CHANGE WHEN I COMPLETE MY COURSE? - No - the DLCs are NOT grades. Grades apply to your membership status.

Michelle Perry – CSA Administration Assistant



MICROMANOMETER - ANEMOMETER - PITOT - BALOMETER HIRE
TRACEABLE CALIBRATION CHECKS BY RETURN OF CARRIAGE
BUNGS - BINDERS AND MORE FOR COMMISSIONING ENGINEERS

WATER BOX MANOMETER CLEANING SERVICE

**Call us first for fast and friendly service
and highly competitive prices
Discount Given for Long Term Hire**

Updated site online @ www.testhire.co.uk
**CALL NOW ON 01275 374468
or Fax request to 01275 375179**

VISIT US AT
MANCHESTER HOUSE - UPPER MYRTLE HILL - PILL - BS20 0AW

**KIMO PRODUCTS NOW AVAILABLE
CALL US FOR A DISCOUNT ON RRP**



**NEW ST6 Range
Digital Pocket Manometer**

PRESSURE UP TO 5000 Pa
VELOCITY UP TO 90.0 m/sec

With a multi-function white LED back lit display, the auto ranging, auto-zeroing manometer is able to give true pressure, velocity and live volume readings with optional temperature measurement using K type probes, with high accuracy.

A maximum of 4000 readings can be stored at any one time, or in 9 different locations. Stored readings can be downloaded using DpmUsb software, which can also be used for continuous monitoring utilising the PC to set the parameters.

MADE IN GREAT BRITAIN
Associated Instruments Repairs
Tel + 44(0) 1280 823823.
e-mail air@ttseries.com
www.a-i-r.co.uk

Weighing 383g including rubber boot, 145 x 78 x 48mm and powered by 2 AA batteries.

The Digital Pocket Manometer is ideal for the modern engineer.

**Instrument Hire
Instrument Calibration
Instrument Sales**

BSRIA Instrument Solutions now offer UKAS accredited calibrations for air velocity, air volume and humidity.



FS 28154 0897

ISO 17025 Accredited Laboratory

www.bis.fm
info@bis.fm
T: 01344 459 314



Instrument Solutions

Old Bracknell Lane West
Bracknell Berkshire RG12 7AH

AIRFLOW MEASUREMENTS LTD.

**INSTRUMENT CALIBRATIONS
SERVICE, SALES, REPAIRS, HIRE**

**PROMPT SERVICE & TRACEABLE
CALIBRATIONS FOR**

Micromanometers, Anemometers, Balometers,
Pressure Meters, Water Test Sets,
Ductwork Leakage Testers, Smoke Generators,
Photometers, Electrical Testers

Benefit from over 100 'man-years' experience

72 Manchester Road,
Kearsley,
Bolton, BL4 8NZ

Tel: +44 (0)1204 571499 Fax: +44 (0)1204 571734

E-mail: cath@airflowmeasurements.com

Website: www.airflowmeasurements.com

**RELIABLE, PROFESSIONAL
VENTILATION TEST SOLUTIONS**



Learn more at www.tsi.com
Tel: 01494 4 459200 • Email: tsiuk@tsi.com

**TSI | AIRFLOW
INSTRUMENTS**

Cross X Count
Limited

**'THE COMMISSIONING SPECIALIST
FOR THE BUILT ENVIRONMENT'**

Tel: 01279 508204
E-mail: enquiries@crosscount.com
Website: www.crosscount.com

- COMMISSIONING
- VALIDATION
- PRE-COMMISSION CHEMICAL CLEANING
- COMMISSIONING MANAGEMENT
- O&M MANUALS

Ashford
Environmental Services Limited

We are pleased to announce that Ashford has been successful in securing the commissioning and water treatment on a number of high profile projects for 2013 and beyond.

The Francis Crick Institute is an interdisciplinary medical research facility currently being built in the heart of London by a consortium of six of the UK's most successful scientific and academic organisations – the Medical Research Council, Cancer Research UK, the Wellcome Trust, UCL (University College London), Imperial College London and King's College London. The project represents an investment of £650M and when complete will employ 1,500 staff, including 1,250 scientists and have an operating budget of over £100 million.

Other projects won include the fifty-four storey Leadenhall Building (aka the Cheesegrater), 20 Fenchurch Street, the building with more up top (aka the walked talkie), Heathrow Terminal T2B, KIMS Hospital Maidstone, 240 Blackfriars and The Royal London Hospital Ph2. 2013 is going to be a busy year!

For further information about Ashford and what we can do for you, call us or visit our website:

Head Office: The Offices, Mill Mead, Staines Middlesex TW18 4UQ
Tel: +44 (0) 1784 465 838
Fax: +44 (0) 1784 465 848

London Depot: Unit 82, Enid Street London SE16 3RA
Tel: +44 (0) 20 7231 6800
Fax: +44 (0) 20 7237 2224

www.ashford-group.com
Integrated Solutions
Flushing - Commissioning - Water Treatment - Management - Maintenance

**Insurance for CSA Members
& Index Readers**



Specialising in the HVAC & Building Services Commissioning industry we offer competitive quotes for:

- Liability Insurance
- Professional Indemnity Insurance
- Fleet and Commercial Vehicle Insurance
- Office and Combined Insurance

01494 434544
www.pwwpl.com

ashleysimmons@pwwpl.com • nickwebb@pwwpl.com

Authorised and Regulated by the Financial Services Authority

Water Treatment Products
speciality chemicals & technical solutions

**"Green Clean" Pre-commission
Pipe Work Cleaner**

A new innovation for the Pre-commission cleaning market

- Environmentally friendly
- Low toxicity
- Biodegradable
- Vegetable derivative
- Blend of powerful renewable cleaning agents
- Available in 12.5, 25 and 205 litre drums



For more information contact:
Email: info@watertreatmentproducts.co.uk
Tel: 01495 792790

www.watertreatmentproducts.co.uk

**SIMPLICITY MEETS
SOPHISTICATION**

**Comdronic AC6 Electronic
Commissioning Unit for
HVAC Water Systems.**

Sophisticated electronics coupled with the highly successful mechanics using DSP Technology™ and pressure reading range suitable for variable flow systems, make the Comdronic AC6 the instrument of choice for today's Commissioning Engineers, Installers and Consulting Engineers.

The compact and lightweight AC6 unit is easily operated in the hand or supported from plant/pipework. The package includes transducer/display unit, snap connector anti-kink tubing with isolation valves, snap connector adaptors for most valves, protective rubber boot, toolkit, quick reference guide and full instruction manual, all within carrying case.

- No more cumbersome and heavy water boxes with limited pressure range
- No more poisonous mercury manometer fillings.
- 0 - 250kPa differential pressure range (600kPa version also available).
- Database of over 2200 valves and devices from 44 manufacturers
- User-friendly range of display options simplifies many of the sophisticated features.
- UK designed and manufactured with full service, technical and calibration facilities.

COMDRONIC Ltd

Tel/Fax: 01449 741169
Email: enquiries@comdronic.co.uk
www.comdronic.co.uk