COMPETENCE, COMPLIANCE AND THE CLIMATE CHALLENGE – Turning theory into practice

NATIONAL CONFERENCE AND AWARDS 2019

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THANKS TO OUR HEADLINE SPONSOR:
Welcome to the BESA National Conference 2019.

Today is a great opportunity for us to come together as an engineering community to focus on the myriad technical challenges we all face. These include turning the government’s pledge to achieve net zero carbon emissions by 2050 into practical actions; delivering the building safety solutions highlighted by the Hackitt Review; complying with ever tightening refrigerant legislation; and achieving higher standards in pipework, ventilation and off-site manufacturing.

While this is primarily a technical conference, it will position the work of BESA members and the sector as a whole in the context of the big political, social and economic changes the country is experiencing. The wider theme of health and well-being in buildings is a case in point. It will be a central theme for today’s sessions with technical experts considering the impact of rising pollution, overheating and poor humidity control on the quality of life of building occupants.

Tackling climate change will create economic opportunity, but it also means the country can start to address some of its worst social justice issues, particularly in housing. Buildings are more than simply economic investments. They perform a vital social function – and today’s conference will demonstrate how our technical work can be the underpinning factor in delivering a better built environment for all.

There is something for everyone in today’s programme and a wide range of practical ‘takeaways’ for building engineering professionals at all stages of their careers.

Have a great technical day.

John Norfolk
BESA President

9:30 - 10:00  Welcome and introduction
BESA President, John Norfolk and BESA Chief Executive, David Frise

‘Setting the agenda’: Building engineering services in 2020 and beyond.

4:15 - 4:45  ‘Beer and takeaway’ – the closing plenary.
Chaired by BESA Chief Executive, David Frise.

Come and enjoy a BESA Beer and influence the ‘takeaways from the day’s sessions.

Industry experts will gather to consider the main lessons learned from today’s seminar programme – and agree the Association’s next steps.
<table>
<thead>
<tr>
<th>TIME</th>
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<tbody>
<tr>
<td>10.00 - 10.45</td>
<td>FIRE SAFETY PANEL</td>
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<td>Sponsored by the Smoke Control Association</td>
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<td>Chaired by David Frise, BESA Chief Executive with</td>
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<td></td>
<td>- Niall Rowan, Chief Executive, Association of SFP</td>
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<td></td>
<td>- Jeff Wilkinson, Independent Building Inspector</td>
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<td>- Barry Turner, Director of Technical Policy, LABC</td>
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<td>- Dave Mowatt, Chairman SCA</td>
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<td>The panel will consider how the industry can implement the post-Grenfell recommendations to make buildings safer. This discussion will go beyond the national debate about cladding to look in detail at broader elements of fire safety, such as the crucial role of damper maintenance and ventilation hygiene and consider how the industry can help property owners and tenants implement comprehensive fire safety strategies. It will consider developments in light of phase one of the Grenfell Tower inquiry and make crucial recommendations for the proposed revision of the Building Regulations in light of the hard-hitting points made by the Hackitt Review.</td>
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<td>10.45 - 11.15</td>
<td>MORNING BREAK</td>
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<td>11.15 - 12.00</td>
<td>VENTILATION HYGIENE</td>
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<td>Sponsored by Swiftclean</td>
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<td>A detailed session on the new TR/19 Grease guidance chaired by George Friend, Vent Hygiene Group Chair.</td>
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<td>Despite growing awareness of fire safety issues in buildings, BESA members continue to come across many grease extract systems in commercial kitchens that have never been cleaned properly. These represent a considerable fire risk, not only to the building in question, but also to its neighbours. BESA’s Vent Hygiene branch has addressed this serious issue by producing a standalone guidance document for kitchen extract systems – the newly issued TR19® Grease. The guidance will be explained and discussed during this session along with BESA’s Vent Hygiene Elite (VHE) scheme. This has been designed to help the sector meet the standards required to comply with TR/19 and demonstrate their competence and professionalism.</td>
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<td>12.00 - 12.30</td>
<td>DATA DRIVEN DECISION MAKING FOR SERVICE CONTRACTORS</td>
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<td>‘Reporting and data visualisation to drive business’ - hosted by CEO James Whatmore and Sales Manager Stacy Sloan.</td>
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<td>12.30 - 1.30</td>
<td>LUNCH</td>
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| 1.30 - 2.15 | PIPEWORK SELECTION  
Presented by Will Pitt, BESA Technical Committee Chair and Chris Owen, British Metal Tube Fittings Association (BMFTA) Technical Committee Chair.  
This session will emphasise the importance of correct pipework specification and highlight some of the common problems that occur when sub-standard or inappropriate pipework is selected for a project. It will preview the forthcoming pipework suitability and selection tool, currently being developed by BESA in partnership with the BMTFA. This will cover all mainstream pipework materials including carbon steel, stainless steel and copper. Once complete, this tool will provide designers, contractors and specifiers with technical guidance to help them select the most suitable pipework solution for the task in hand. |
| 2.15 - 3.00 | WELL-BEING IN BUILDINGS  
Sponsored by Farmwood M&E Ltd  
Chairied by Nathan Wood, BESA Health & Well-being Group Chair with headline speaker Rosamund Kissi-Debrah, World Health Organisation Advocate for Health & Air Quality and clean air campaigner.  
The British Lung Foundation recently dubbed air pollution as Britain's greatest "health crisis" on a par with the level of harm caused by smoking and costing the NHS billions of pounds every year. |
| 3.00 - 3.30 | AFTERNOON BREAK |
| 3.30 - 4.15 | LOW CARBON HEATING (focus on HIU/heat networks)  
Chairied by Gareth Jones, UK HIU Group Chair.  
Sponsored by Skillcard  
Heat Interface Units (HIUs) will play a pivotal role in the UK's programme for decarbonising heat as they are critical to the effective performance of heat networks. The adoption of the BESA HIU Test Standard by the market, including its acceptance by manufacturers, shows a general maturing of heat networks in the UK. This session will outline how the test standard is improving standards and driving forward research and development in this critical technology area. |
DOES THE INDUSTRY NEED A REGULATORY AUTHORITY?
Presentation by Rudi Klein, SEC Group Chief Executive

Other industry sectors have had regulatory bodies overseeing professional standards for years – so construction is something of an anomaly. Rudi Klein will explain how the findings of the Hackitt Review have brought this topic to the forefront. He will outline how such a body would help construction sectors reform their procurement processes; improve payment security and professional standards and police the implementation of standards and best practice.

DIGITAL AND SMART TECHNOLOGY – what does the future hold?
Chaired by Reinaldo Melendez, Future Leaders Chair
Sponsored by SFG20.

Future Leaders session chaired by Reinaldo Melendez and featuring Marc Morrison, Co-Founder, Mobetrics; Josh Emerson, Marketing Manager, Swegon UK&I.
BESA’s Future Leaders group – representing young engineers who are taking the lead on improving the uptake of digital technology to help modernise the building engineering industry – will lead this session. They will consider a series of presentations from ‘tech champions’, who will promote the potential of a number of digital technologies and solutions including BIM; wireless connectivity and adapting wearable tech used by the nuclear sector to our industry...among others!

FORRESTBROWN
Alex Price looks at how companies can invest in research and development in a tax efficient way.

LUNCH

THE FUTURE OF COOLING
Sponsored by Mitsubishi Electric

Panel discussion chaired by Graeme Fox, Head of REFCOM and featuring:
- Graham Wright, Chairman, Heat Pump Association
- Phil Ord of Mitsubishi Electric
- Richard Merritt from BESA’s Refrigeration, Air Conditioning and Heat Pump group.

The panel will seek to outline how the sector must respond to the current upheaval driven by legislation. They will consider the implications of growing refrigerant supply problems and price rises along with safety concerns. The panel will also look ahead at the profound impact of the F-Gas phase down on future product selection and the implications for system design, installation and maintenance.
**DESIGN FOR MANUFACTURE AND ASSEMBLY**

Sponsored by BESCA

Chaired by BESA past president Tim Hopkinson with a presentation from Adrian Mitchell, Manager – Modular Services, Balfour Beatty.

Design for Manufacture and Assembly (DfMA) is becoming a greater priority for the industry’s clients and has been proven as the only way for many projects to meet their expectations in both cost and performance terms. This session will outline how an offsite programme can be created and delivered; looking at the lifecycle of the project from design to handover and implications for ongoing operation.

**BREAK**

**HEALTH AND SAFETY – DSEAR REGULATIONS AND THEIR IMPLICATIONS FOR CONTRACTORS**

Sponsored by REFCOM

Chaired by Graeme Fox, Head of REFCOM with a presentation by David Paget, Lloyds Insurance and Chair of the Institute of Refrigeration Technical Committee.

This vital health and safety seminar will focus on the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR). It will explain why many more contractors must now carry out risk assessments to help reduce the risk of fatality or serious injury in the workplace – enforced by local authorities and the Health & Safety Executive (HSE). It will explain new guidance and Point of Work Risk Assessments (POWRA), which are designed to help contractors comply and meet their legal obligations.

**HERITAGE EXHIBITION** (located in the exhibition area)

Curated by Robert Higgs OBE.

This visual representation of the Association’s 115 year history will explain how the experience, expertise and enthusiasm of members and staff over the generations have influenced today’s industry and allows BESA to continue to be influential today – both technically and politically.
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Gary Smith, MD of Kershaw Group, a BESA member

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1. **Joblogic**  
www.joblogic.com  
Joblogic provides field management software to service maintenance contractors, giving them a complete solution to manage their business more effectively.

2&3. **BESA Group**  
www.thebesa.com  
BESA is the premier trade association representing the best interests of those operating within the built environment. Supporting members through our group companies – BESA Knowledge, BESA Training, BESCA, REFCOM, SFG20, Skillcard and Welplan.

4&5. **BISPA**  
www.bispa.org  
BISPA is a perfect example of academia and industry working together to support the building and industrial services market, and to improve the awareness of pipework related issues and innovations.

6. **Congrid**  
www.congrid.com  
Congrid was founded in 2013 by a team of construction site managers who had become frustrated with the use of pen, paper and Excel-files to control the quality and safety of construction sites. Congrid’s cloud-based software offers users one platform to handle quality and safety management on any construction project, reducing quality costs, improving safety and maximising site productivity.

7. **MBS TV**  
www.modbs.co.uk  
Modern Building Services is the leading independent journal for designers, contractors, installers and end-users in the building services sector. We have 23,726 readers who reach across the entire sector, and our coverage of the industry reflects this broad readership. MBStv is our unique dedicated building services channel that takes a look at our industry from a different angle.

8. **Sevron**  
www.sevron.co.uk  
Now considered one of the UK’s most innovative online solution developers, here at Sevron, we constantly strive to reduce risk in the workplace. Our intuitive software solutions enable businesses in every industry to create and manage Risk and COSHH assessments, acquire and manage their own inventory of Safety Data Sheets (which we constantly update), and report workplace accidents in real-time.

9. **Hasman**  
www.hasman.co.uk  
Hasman is becoming renowned for its specialist BESA approved duct cleaning training courses and is the number one choice for ventilation cleaning companies to have their staff trained in this industry.

10. **Milwaukee**  
www.milwaukeetool.co.uk  
Since the company began in 1924, Milwaukee Tool has led the industry in both durability and performance. With an unwavering commitment to the trades, Milwaukee continues to lead with a focus on providing innovative, trade-specific solutions for increased productivity.
15. Constructionline
www.constructionline.co.uk
Constructionline is the largest and most lucrative business-generation platform for SME contractors in the UK construction industry.

15. Builders’ Conference
www.buildersconference.co.uk
We are the construction sector’s leading Trade Body, providing our members with up to the minute sales leads, market intelligence, and statistical data and networking opportunities.

16. Swegon Air Management
www.swegonair.co.uk
Swegon have a unique understanding of the entire construction process. They design innovative solutions in air distribution, fire and smoke control, natural ventilation, filtration, heating, cooling, hire and service. Where others can specialise in one part of a building’s construction, Swegon is an expert on all of this.

17. ForrestBrown
www.forrestbrown.co.uk
ForrestBrown is the largest specialist R&D tax credit consultancy in the UK.
BEST PRACTICE IN VENT HYGIENE

Developed for the industry by the industry, the Vent Hygiene Elite Scheme allows businesses to self-certify their specialist hygiene works to the required industry standards.


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