

DECEMBER 2016



magazine

The voice of the HVACR industry

A year in the life

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standout moments in 2016*

European break

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Count the cost

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Letter from the chairman



Graham Wright ▲

Dear FETA members,

In the wake of the EU referendum there has been much political activity, both within the UK and beyond, and endless speculation as to how things may develop. I thought it would be timely to give you an update on how it is envisaged that we as a Trade Association should approach the related challenges.

There will be many subjects to consider as we move towards a different relationship with both the European Union collectively and its member nations individually. Such is the length of time the UK has been a member of the EU, it is hardly surprising that Europe has been a significant element in setting regulations, and indeed visions, for the UK building services and construction sectors.

At FETA we believe that in the post-EU landscape, trade associations can provide an even more vital line of communication with the rest of Europe on important issues such as energy use regulations and product design. FETA has been present at many meetings of European committees and pan-European associations to observe and to help shape some key directives and regulations that have impacted our sector. These include F Gas, Energy Labelling and Ecodesign, to name a few that we have dealt with over the years.

Regulations are not always greeted enthusiastically by business and industry, but FETA and its members recognise the general good intentions behind them. The emphasis on sustainability and environmental issues is important for us and future generations. Energy efficient products and buildings will help ensure we have security of energy supply in the years to come.

With this in mind, FETA feels that it is now very important for the UK Government to adopt a very cautious and measured approach to any changes in this legislative landscape. We recognise that there could be perceived superficial attractions in appearing to sweep away the unwanted bureaucracy of regulation. However, it is vital to think through the consequences to UK manufacturing, the construction sector and indeed ultimately the UK consumers.

Many products used in UK buildings are manufactured elsewhere in Europe, and to require different standards for the UK market would only add to manufacturing costs and hence the price. We do not want to see either consumers or businesses facing higher costs because our legislation does not keep in step with the rest of Europe. Departing from current EU-wide regulations such as Ecodesign and Energy Labelling will similarly cause complexities in trade arrangements where they are not needed. From an environmental standpoint, the UK's departure from the EU should not spell an end to the existing initiatives that encourage the uptake of renewable technologies. Schemes such as the Renewable Heat Incentive and the Enhanced Capital Allowance should be retained and promoted further. It is worth remembering that the UK's target to cut CO2 emissions by 50 per cent of 1990 levels by the year 2025 is not set by the EU, but by the Committee for Climate Change.

Whatever happens in the coming years, staying abreast of developments in legislation across the EU will be very important to UK firms. Trade associations are well-placed to have a significant role in this. Having spent a long time establishing good relationships with technical committees in a number of fields, FETA is well-placed to maintain those connections. Our objective, post-Brexit, is to ensure that member companies continue to have access to a flow of information on what is happening with regard to product design, refrigerant use or fan motors – or any of the other important technical issues that affect our manufacturer and installer memberships.

Yours sincerely,

Graham Wright
Chairman of FETA



Russell Beattie ▲

A year to remember

Russell Beattie, chief executive of FETA, takes a look back at a tumultuous 12 months.

The past year has been, by any standards, an action packed and memorable one in terms of what might be described as the political landscape.

The decision to leave the EU is a significant step and, not surprisingly given that the UK has been in the Union for the best part of half a century, the scale of the challenge is enormous. Our stance has been to retain a pragmatic position, encouraging the Government to proceed with caution and to consult fully with industry before changing any of the previously agreed legislation.

There is of course a degree of irony in us seemingly championing the sort of bureaucracy we might on occasion have opposed in the past as it went through the tortuous process of becoming agreed across the member states. However, our view is simply that a huge amount of time, effort and investment has gone into compliance and it is simply not in the interests of our manufacturers, nor indeed ultimately the UK consumer, to unpick all the legislation in a rash manner.

The changes within Government departments are of interest to us too and we would urge the new BEIS department to work closely with DEFRA and pursue a joined up approach to climate change and energy efficiency aspects of policy: it ought to be feasible to retain a coherent European regional approach to such issues without being a formal EU member.

In this past year we have joined the European Ventilation Industry Association (EVIA) with a view to being both better informed and indeed better able to influence developments in that sector.

Notwithstanding future changes to come as a result of leaving the EU there is no doubt this will take some time and in the interim there are a number of discussions currently ongoing in the EU concerning policies which impact on our industries (e.g. Ecodesign, EPBD) and we will continue to monitor those developments closely. Even in the longer term it is highly likely that some form of regulatory equivalence will evolve and irrespective of where the stakeholders are based we as a sector will still wish to represent our views to the relevant decision makers.

Understandably BREXIT has dominated the agenda of late but of course enduring issues, such as skills shortages, have not disappeared. On that particular theme, I should like to pay tribute to those members who have worked so hard in addressing this; whether it be developing Trailblazer Apprenticeships, promoting STEM recruitment initiatives or working up specific courses to fill a knowledge gap. As in everything we do as a trade association it is volunteer members who are the key to success and we should recognise and support them accordingly.

I am sure 2017 will be another interesting year and despite the uncertainty there is a lot of scope for constructive engagement and a clear need to represent our sector responsibly and coherently.

FETA takes action on skills shortage



Much has been made of the apparent skills shortage in the UK but FETA is taking positive steps to ensure that the next generation of potential installers and engineers are encouraged to pursue a career in the HVACR industry.

The promotion of science, technology, engineering and maths (STEM) subjects is pivotal in helping to inspire young people to become future experts and leaders in engineering based roles.

With this firmly in mind, FETA has continued its support for The Big Bang Fair – a STEM based combination of theatre shows, interactive workshops, exhibits and careers information, designed to motivate young people and demonstrate the rewarding opportunities that STEM subjects can bring about.

FETA members are also playing leading roles in implementing Trailblazer Apprenticeship schemes, designed to equip apprentices with the skills and expertise they need to progress in their chosen industry sector.

The Association of Ductwork Contractors and Allied Services (ADCAS) and the Building Controls Industry Association (BCIA) have worked hard to develop schemes that will help to introduce a new generation of highly competent apprentices to their respective industries.

One stage on from this, The Air Conditioning and Refrigeration Industry Board (ACRIB) has successfully developed the RACHP Engineering Technician Level 3 Apprenticeship and recently won an award at the RAC Cooling Awards in acknowledgement of its work on the Trailblazer Apprenticeship. FETA members have not only played a significant role at the development stage but ongoing commitment from their companies will be key to delivering success as the scheme goes forward.

In addition to the ongoing apprenticeship development work, FETA has recently announced a sponsorship agreement with the Arkwright Scholarships Trust, an independent charity that awards engineering scholarships to high calibre students from all educational backgrounds.

FETA board member Nick Howlett has been instrumental in establishing the FETA Arkwright Engineering Scholarship and is pictured above congratulating eventual recipient Bobby Burnard. Bobby was identified as having outstanding potential as a future leader in engineering and everyone at FETA sends their congratulations and wishes him all the best in his future career.

FETA will continue to explore innovative ways to promote the industry and develop new and existing relationships, helping to reduce the skills gap and bringing through the next generation of engineering talent.



Awareness of IAQ continues to grow

FETA has continued to push the agenda on indoor air quality (IAQ) and general awareness surrounding this important topic is now growing at an increasing rate.

Inexorably linked to outdoor air quality, over the past two years IAQ has hit the mainstream with a number of high profile reports helping to engage the public.

Those most at risk from poor IAQ, such as the young, elderly or seriously ill, are often demographic groups that spend the longest periods of time indoors.

FETA Chief Executive Russell Beattie says: "IAQ is a broad topic and it involves a number of Government departments. Greater awareness can only be seen as a positive and FETA will continue to communicate the importance of IAQ to a wider audience."

As a key element of the Energy Performance of Buildings Directive (EPBD), IAQ is relevant to all FETA associations and the subject has previously been covered in a HEVAC IAQ guidance paper released in 2005. The Air Distribution Group also issued IAQ advice back in 2000 (revised in 2015) and more recently the Humidity Group published a white paper on IAQ and humidification in 2016.

Beattie adds: "FETA will continue to act as a conduit for information from regulators to manufacturers and vice versa, as well as offering support to other organisations as they work on IAQ."

A2L refrigerants - A FETA perspective

Due to the F Gas Regulations there is now significant pressure to reduce the Global Warming Potential (GWP) of fluorocarbon refrigerants.

Non-fluorocarbon refrigerants all have low GWP but the only family of pure compounds that have a very low GWP are the Hydro Fluoro Olefins (HFO). HFOs are significantly less flammable than current Class 2 and Class 3 refrigerants and in order to differentiate these products from other flammable refrigerants the A2L classification was introduced.

John Smith, President of the British Refrigeration Association (BRA), comments: "The F Gas regulation will require the use of refrigerants with significantly lower GWP in order to meet phase down requirements. Whilst HFO blends can be made non-flammable, there will always be a GWP penalty.

"The industry must face up to the need to make use of these fluids and understand the implications of their use."

A2L refrigerants are now widely available and manufacturers are beginning to offer A2L alternatives to most existing HFCs. New cars have featured the A2L refrigerant

R1234yf since 2012 and from January 2017 all new cars must use the fluid. Importantly, A2L refrigerants are not suitable for retro-fit applications so are only for use in new systems. Smith continues: "The industry needs clear guidance on the use of A2L refrigerants in the field. FETA recognises that this issue is pertinent to several associations and is interacting with other organisations whilst also discussing the subject with the HSE in order to understand its viewpoint.

"Put simply, the F Gas Regulations will not work without the introduction of A2L refrigerants and the biggest challenge will be found in the air conditioning sector, where there is no non-flammable alternative to R410A."

FETA is committed to providing clarity on A2L refrigerants and, with the aid of a new set of guidance notes, will be working hard to help the industry understand how and when to use the fluids, how to store them and how to transport them safely.



FETA'S Mike Duggan receives award

Congratulations to Mike Duggan, our Technical Manager, who received the Alan Moor award at the ACR News Awards on 17 Feb 2016.

The award is presented every year in recognition of the contributions of one individual whose efforts on behalf of the air conditioning and refrigeration industry have largely gone unrecognized. The Alan Moor Award is presented in memory of the late one-time managing director of Bitzer UK.

Value engineering a cause of poor building performance

The Building Controls Industry Association (BCIA) has highlighted value engineering as one of the main causes of poor building performance and emphasises that working together is the best way forward for all stakeholders.

BCIA President Malcolm Anson says: "The focus on capital costs for construction projects is leaving building owners and managers with properties that cost them more in terms of energy and maintenance in the long-term."

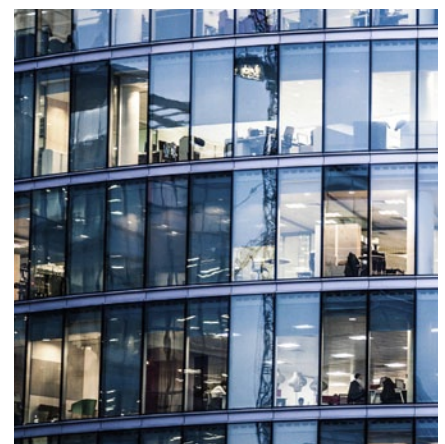
All areas of building services suffer from value engineering, as Malcolm points out with examples from the controls sector: "It may seem that reducing the number of sensors on a project, for example, is an

easy way to save a few pounds. However, these seemingly small items are crucial for a building to operate effectively.

"So often, BCIA members find that the removal of sensors for temperature or CO₂, for example, means that heating and cooling are left to be operated manually which almost inevitably leads to higher operating costs."

The BCIA is aiming to educate the market about the true costs of value engineering through a joint conference with BESA and the ECA. The Building Services Summit will be held at the British Library on 23 November 2016. The theme of the conference is the efficient long-term performance of buildings.

"We know that the best way to raise awareness of these issues is to work with our professional colleagues within FETA and other organisations in this way. The Summit is a unique event organised by Associations for their memberships to share knowledge and help to solve challenges together," adds Malcolm.



Full details of the Building Services Summit can be found at www.buildingservicessummit.co.uk



Annual lunch

FETA organises and attends a number of high profile events throughout the year. The popular and well attended annual lunch will take place at The Brewery, London on 27th April 2017 and will feature a talk from legendary journalist and broadcaster, John Sergeant.

The 2016 Lunch was once again very well attended with over 600 people from industry enjoying the surroundings of The Brewery, and a delicious meal. FETA Chairman, Graham Wright's keynote speech reviewed the important work done by FETA during the year and outlined the challenges to be faced in the future. After the lunch, guests were treated to an entertaining speech from well known raconteur, Gyles Brandreth.

Bookings for the 2017 lunch can be made by contacting the event organiser Touchwave Media; **07792 720 597**, hannah@touchwavemedia.co.uk.

The opportunity exists for companies to sponsor all aspects of this event, from the ticket invitations to table favours. To find out how your company can become a sponsor and gain some excellent promotional exposure, call FETA on **0118 940 5043** or email info@feta.co.uk.

FMA works with HSE to raise awareness of the ATEX Directive



The Fan Manufacturers Association (FMA) is warning company directors and employers that selecting the wrong fan for their working environment could put premises and occupiers at risk. This has become particularly important since the update of the ATEX legislation in April 2016.

The FMA has been so concerned about non-compliance with ATEX that it has been working with the HSE to raise the Executive's awareness of this regulation, and to help others understand its implications. The HSE has also asked FMA representatives to speak at a meeting in Brussels of an Administrative Cooperation Group (AdCo) which is established to help harmonise legislation and its enforcement across Europe. The FMA has been asked by the AdCo Group for ATEX to produce a guide that will identify fans not meeting the requirements of the ATEX Directive.

ATEX is European legislation concerning explosive atmospheres, consisting mainly of two directives that deal with safe working in 'explosive environments' and the choice of equipment, including fans, for those environments. Unfortunately, explosive environments are more common than many company directors and employers may realise.

FMA Chairman, Mark Jones (pictured above) says: "Explosive environments exist in the most day-to-day situations. It's not just obviously explosive substances such as gas that need to be considered. Dusty environments can also be at risk of explosion too, and a number of deaths have occurred over the past decade as a result of incorrect fan selection for these environments."

ATEX is significant for businesses, because it makes company directors liable for accidents which occur as the result of using the wrong type of fan in an explosive environment.

Mark Jones says: "Currently, employers are not adhering to the ATEX regulations for various reasons, and they clearly don't understand its full implications for them. This puts building occupants at risk, and company owners potentially facing unlimited fines or even imprisonment."

One of the challenges for customers selecting fans is that currently there is no independent third-party certification for ATEX-compliant fans. The FMA has worked hard on the new EN 14986 Standard which will help to address this issue – but businesses need to make themselves aware of what is available before they make the wrong choice of equipment.

The FMA has produced a number of useful documents for building owners who feel their building contain a potentially 'explosive environment'. These provide quick and clear guidance on the issues at hand and can be downloaded for free from the FMA section of the FETA website www.feta.co.uk/fma.

Entries go live for the 2017 BCIA Awards

Entries are now open for the 2017 Building Controls Industry Association (BCIA) Awards which promise to be better than ever before.

The BCIA Awards is the most exclusive event in the building controls calendar. In 2017 this highly anticipated awards ceremony takes place on Thursday 11 May 2017 and will be held at the Hilton Birmingham Metropole.

The perfect venue for this growing event, the Hilton Birmingham Metropole provides a fantastic opportunity for guests to network with key decision makers whilst celebrating the best performers in the building controls industry.

Now in their 11th year, the awards recognise and reward excellence in the building controls industry providing entrants with a fantastic opportunity to showcase their top products and projects from the past 12 months.

There are eight categories which include; Independent Building Controls and BEMS Installer; Best Service and Maintenance Provider; Technical Innovation of the Year - Projects; Technical Innovation of the Year - Products; Energy Management Award; Contribution to Training; Engineer of the Year and Young Engineer of the Year.

Malcolm Anson, President of the BCIA says: "The BCIA Awards are an excellent opportunity for the building controls industry to showcase its achievements. The professional excellence of our industry is something to be proud of and we should celebrate our successes. I would encourage everyone to enter and gain the recognition they deserve.

"We are delighted to welcome on board our gold sponsors; Centraline by Honeywell; Johnson Controls; Modern Building Services; Priva; Siemens Building Technologies; Trend Control Systems and Western Automation. They will play a key role in ensuring that the 2017 event will be bigger than ever before."

The deadline for entries is the 31 January 2017

To enter simply visit the BCIA website, www.bcia.co.uk, and submit your entries via the online form. Entry to the awards is free and open to BCIA members and non-members.



FETA well represented at International standards meeting for fans in China

Through FETA's membership of BSI, CEN and ISO standards committees, FETA member companies are able to participate in developing the industry standards they need.

Fan experts from the UK and 11 other countries participated in the recent ISO technical meetings on Fans in Beijing in April 2016. This important technical committee is chaired by Tony Breen from FETA member Nuair. The FETA Technical Manager, Mike Duggan, is the secretary of this International technical committee, a role he undertakes on behalf of the Fan Manufacturers Association and BSI. Geoff Lockwood from ebm-papst UK was leader of the UK delegation and he was supported by Bill Cory, Mike Price and Neil Jones – all from FETA member companies.

Topics high on the agenda for the two days of meetings were the fan efficiency classification standard which supports the EuP fan regulations, and the revision to the main fan testing standard, ISO 5801, which is nearing the publication stage.

The equivalent CEN standards committee which is developing the European fan standards is chaired by FETA's Alan Green from Trox UK.

There was also the International Fan Efficiency Regulation Symposium, which was hosted by Asia AMCA, and an opportunity for delegates to visit the China Refrigeration Show.

HPA welcomes new Business, Energy & Industrial Strategy Department

Few could have predicted the political upheaval that resulted from the BREXIT vote, or that we would now have a new Prime Minister and a radically restructured cabinet.



Department for Business, Energy & Industrial Strategy

Teresa May is the HPA's local MP, as her constituency includes Hare Hatch near Reading, where the Association is based. She has always been very receptive to HPA communications and appeared to support strong action on climate change. In 2014, she readily agreed to be the keynote speaker at the 30th Anniversary of the Federation of Environmental Trade Associations (FETA), under whose umbrella the HPA operates.

The HPA has always worked closely with government departments – in particular the Department of Energy and Climate Change (DECC) – and was initially somewhat alarmed at the news reports that DECC would be amalgamated with another government department.

The HPA has had occasion to be concerned in the past that critical synergies on environmental matters could not be effectively achieved because of communication difficulties between the separate departments such as DECC, DCLG, DEFRA and BIS.



With this in mind, the HPA is of the view that the new Business, Energy and Industrial Strategy Department could in fact be an extremely positive and welcome step towards greater joined up thinking on stimulating the take up of heat pumps, renewable heating and carbon reduction in general, and hence the UK can play a meaningful part in tackling climate change.

Mike Nankivell, President of the HPA, comments: "We look forward to forming a close working relationship with the new department and hope to arrange a meeting with the ministerial team as soon as practicable."

New President for the British Refrigeration Association



John Smith (left) succeeds Mike Lawrence at BRA

John Smith, Group Technical Director for Beijer Ref UK & Ireland, has taken over the role of President of the British Refrigeration Association (BRA).

John succeeds Mike Lawrence – a stalwart of the BRA – who has held the position since 2014. Trade Associations rely on individuals volunteering to take on such roles, supported by their companies, and Mike has epitomised this in his years of service with the BRA. The handover took place at the recent FETA Strategy Forum, held in Marlow.

John has been in the RAC industry for over 30 years in a variety of technical sales roles, and has been an active member within the BRA. He is currently chairman of the Equipment and Components section, and has been Vice President since 2015.

John commented: "I would like to pay tribute to the sterling work Mike has done for the BRA in his time as President, and I look forward to taking on the role in what will be challenging times for our industry."



BFCMA releases commercial flue guide

Designed to provide a clearer understanding of how chimneys and flues should be selected and installed in commercial applications, the new Commercial Flue Guide from the British Flue & Chimney Manufacturers Association (BFCMA) represents an invaluable resource for installers, suppliers, manufacturers and end users.

The guide is split into a number of different sections and covers chimney principles, regulations, types of chimney & flue, chimney & flue design, chimney/flue height & the Clean Air Act, and maintenance.

BFCMA Vice Present Dennis Milligan says: "Selecting the correct chimney or flue for the application is of vital importance and a raft of factors need to be taken into consideration."

"The new guide helps to make sense of design features, regulations and other key elements, encouraging best practice across the industry."

The guide focuses its attention on stainless steel flues – the most commonly used material in the chimney and flue market. Stainless steel flues are categorised into different systems and the guide clearly outlines the applications they are designed for.

Classed as 'part of the building' the chimney and flue must comply with the Construction Products Regulations (CPR) and as such all designers, architects, builders and heating engineers need to understand their individual requirements. The Commercial Flue Guide offers guidance on CE designations and picks out all of the key points from the regulations.

Milligan concludes: "With clearly labelled diagrams and illustrations, the new guide contains a wealth of information and is a must read for anyone involved in the selection and installation of chimneys and flues in a commercial setting."

To download a copy of the guide visit www.bfcma.co.uk/download.aspx

Clean ductwork for a better indoor environment

The Association of Ductwork Contractors and Allied Services (ADCAS) believes that clean ductwork is essential for a healthy indoor environment.

Ductwork cleanliness is a hot topic in building industry, and it affects not just the overall operation of the building, but it also has an immense impact on occupants' health and well-being. Ductwork air systems can be a source of spreading disease and infections. With this great understanding, the requirement for access to the ductwork systems has increased, and a guide has been released to help industry experts to meet those obligations.

The ADCAS has published a Guide to Ductwork Cleaning Requirements and Access Doors and B & ES DW/144 Second Edition Specification to Sheet Metal Ductwork Low Medium and high pressure/ Velocity Systems; and TR/19 Internal Cleanliness of Ventilation Systems. These three documents will provide building owners, contractors and designers with essential practical recommendations for legal cleaning procedure for new and existing ventilation and air conditioning systems. It will also explain the similarities and differences between these documents.

These documents will not only provide with the essential information on cleaning, but it will also allow meeting the British Standard, BS 1570 for Ventilation for Buildings – Ductwork – Cleanliness of Ventilation System.

The ADCAS Guide to Ductwork Cleaning Requirements and Access Doors will answer all of the essential questions for cleaning procedures and requirements including:

- How does a ductwork or cleaning contractor know where to fit access doors?
- What if a ductwork contractor has installed access doors as prescribed by the guidance, but the client then requests additional doors for cleaning purposes?
- If a customer wants the contractor to fit the cleaning access panels and clean the ductwork, how can he be persuaded otherwise?
- We have installed a ductwork system very carefully and exactly to Intermediate PDI as defined in TR/19. It has however failed the acceptable dust accumulation levels as defined in the guide. How can this happen and who should now clean it?

ADCAS President Malcolm Moss, says: "Ductwork cleaning is a crucial procedure that needs to be addressed and followed. Clean ductwork will immensely increase the indoor quality and will protect occupants of the building health. Clean ductwork will also reduce the costs of ventilation systems and overall operation of premises."

For more details on the DW144 2013 guidance, see the ADCAS website (www.adcas.co.uk) for a free guide which includes a comprehensive Q&A section.

FETA is a federation of trade associations representing ADCAS, BCIA, BFCMA, BRA, HEVAC and HPA but it also has close ties with many other associated groups and industry bodies.

ACRIB	UK Air Conditioning and Refrigeration Industry Board
AMCA	Air Movement and Control Association International
AREA	Air Conditioning and Refrigeration European Association
AHRI	Air Conditioning, Heating and Refrigeration Institute (US)
BESA	Building Engineering Services Association
BSRIA	Building Services Research and Information Association
CBI	Confederation of British Industry
CT	Carbon Trust
DCLG	Department for Communities and Local Government
DEFRA	Department for Environment, Food and Rural Affairs Environment Agency
BEIS	Department for Business, Energy & industrial Strategy
EHPA	European Heat Pump Association
EPEE	European Partnership for Energy and the Environment
EST	Energy Savings Trust
EVIA	European Ventilation Industry Association
IoR	Institute of Refrigeration
SEA	Specialist Engineering Alliance (FETA, ACE, BEAMA, BSRIA, CIBSE, ECA, BESA)
SOJACES	HEVAC/BSRIA/CIBSE/ECA/BESA
TA Forum	Trade Association Forum

The FETA board comprises senior officers of all six Associations.

Chairman FETA Board

Graham Wright
Daikin Airconditioning UK Ltd

President ADCAS

Malcolm Moss
Doby Verrolec

President BCIA

Malcolm Anson
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Mike Lawrence
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Vice President HEVAC

Nick Howlett
Titon

Past President HEVAC

Mike Nankivell

President HPA

Mike Nankivell

Chief Executive FETA

Russell Beattie
FETA

Diary dates for 2017

30 Jan - 1 Feb	ASHRAE Las Vegas, USA
6-9 Feb	EUROSHOP Dusseldorf, Germany
8-9 Feb	Energy Now Expo Telford, UK
16 Feb	IOR Annual Dinner Grange St Paul's Hotel in London
14-17 Feb	ISH Frankfurt, Germany
3-4 Apr	ISO/TC 117 Fans Chicago, USA
15-17 May	12th IEA Heat Pump Conference Rotterdam, Netherlands
27 Apr	FETA Annual Lunch The Brewery, London
2-3 June	AREA Spring General Assembly Hilton Hotel, Amsterdam
28 Sept - 1 Oct	AMCA Annual meeting Vermont, USA

If you are interested in joining FETA call 0118 940 3416 or email info@feta.co.uk

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