

The magazine of the
Institute of Sound and
Communications Engineers

Spring 2019

ISCE



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Introduction from our President



Welcome to your Spring magazine, but before your dive in and read about our wonderful ISCEEx success, please allow me to have a moment of your time.

I would like to re-iterate how honoured I am to take the office of President and would also like to introduce Gareth Collyer as your Vice President. With the backing of Council, we hope to continue moving our Institute forward in terms of not only membership, but visibility to associated disciplines and industries. We are now as relevant an industry as we have ever been and we must be vocal to ensure that this relevance is understood in this age of converging markets and technology.

As someone who has been in the Institute their whole career, from technician grade, I recognise that I stand on the shoulders of giants and none more so than our immediate past president, Phil Price. Phil has implemented significant structural and technology upgrades that will be his continuing legacy to the Institute as we move forward. Of course, Phil is not going anywhere but will be ably leading the committee that organises ISCEEx for the foreseeable future.

We have some exciting developments in the pipeline, not least of all the formulation of the 'New Members' committee that we will be looking to welcome and encourage our latest Members of all grades to

take an active role in the Institute. Then there is the outstanding work that the Lobbying Committee have started under the leadership of Neil Voce. You can hear more about that on the AGM soundbites that you will find on the website shortly. We also have the re-launch of the Members only discussion board that will be live in this quarter and you will receive more information on how to join and get on your soapbox about whatever industry related topic you wish. Maybe you have a burning question that keeps you awake at night. Remember there are no stupid questions.

As we go into this extended period of uncertainty with many public and private projects on hold, I feel sure that many of us are turning our attention to research and development. This is historically how our industry responds to the commercially quieter times. I can't wait to see what comes out of it! Of course there are many upcoming opportunities for us all to meet at public events: Firex, PLASA Focus and the ABTT Show, so I look forward to seeing you there.

As there is only one of me and hundreds of you, if you do see me out and about please do stop me and introduce yourself. I am keen to talk to as many of our members as possible and hear any input that you have. 500 heads are better than one! ♦

Helen Goddard *FInstSCE FIOA FRSA MAES*



We welcome your contributions to the magazine with editorial and advertising.

Please send news or articles to **Ros**

Events Diary

14–15 May 2019

PLASA Focus
Leeds, UK

5–6 June 2019

ABTT Show
London, UK

11–12 June 2019

British & Irish Airports
London, UK

18–20 June 2019

Firex International
London, UK

12 July 2019

**Loudspeaker, Room Acoustics
and how they interact training**
Harlow, UK

9 September 2019

**Making Waves – Acoustics for
Sound Engineers training**
Leighton Buzzard, UK

15–17 September 2019

PLASA Show
London, UK

16–17 October 2019

Showman's Show
Newbury, UK

16–18 October 2019

AES
147th, New York, USA

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Annual meeting of members

On Tuesday 5 March, members of the ISCE gathered for their annual meeting. Aside from the more formal proceedings, the audience also enjoyed informal presentations from each committee chairperson, who were able to explain the types of projects their team had been working on over the past year.

Helen Goddard was appointed President of the Institute, taking over from Phil Price, who remains as a Director, a Council member and Chairman of ISCEEx. Gareth Collyer was also appointed Vice-President.

Jim Smith finished the meeting with a fascinating presentation on Talker Training. This talk generated much interest from the audience, with some members stepping forward to get involved.

**Thank you to all our members who came along.
We hope to see more of you there next year.**



ISCEx 2019

ISCEX 2019 PROVES TO BE A GREAT SUCCESS

Wednesday 6 March 2019, the Institute of Sound and Communications Engineers winds up another successful ISCEx event with increased attendances at its annual exhibition and seminar day. ISCEx is a one-day exhibition and seminar programme held annually by the Institute of Sound and Communications Engineers at Coombe Abbey Hotel and Country Park.



ISCEx 2019

The ISCEx 2019 seminar programme, chaired by Helen Goddard, started with a lecture from Martin Bonsoir MInstSCE, Internal Applications Manager for BiAmp Systems presenting the Hopkins-Baldwin Lecture, entitled 'Remote Management in AV', exploring AV equipment and building infrastructure.

Peter Mapp, HonFInstSCE, presented the Warren-Barnett Memorial Lecture on 'Psychacoustics for Sound Engineers' outlining the basis of every day acoustics and audio phenomena when designing and setting up sound systems.

The seminars were concluded by a lecture from David Needham from Axis Communications under the topic of 'Embracing the move to network based audio', presenting the advantages of IP audio and how to migrate from existing analogue audio installations.

Christopher Nicolaides, Principal at AMS Acoustics said 'I had a wonderful time at ISCEx, it was probably the most enjoyable industry event I've attended in my career so far, as it strikes an excellent balance between exhibitors and seminars and the day is structured masterfully to allow attendees the best of both. Looking ahead, I am looking forward to getting involved more with some of the new member initiatives the Institute is implementing'.



ISCEx 2019

ISCEx 2019 once again proved to be two days stacked with meetings, presentations, exhibits and networking opportunities, highlighted by the feedback and comments from attendees and exhibitors.



Robert Siatkowski from Ambient Systems, a first time exhibitor at ISCEx 2019 comments, 'I was very impressed with the event over both days. The networking dinner was a good opportunity to meet new contacts and at the exhibition I was impressed at being able to meet with a number of visiting consultants. We shall definitely be booking again for next year'.

ISCEx 2019



Adam Florio, UK Sales Director of Element One adds, 'Although I'm an enthusiastic member of ISCE and have been for several years, it was the first time I'd been able to attend ISCEx. The networking dinner was highly rewarding; I had the chance to spend and enjoy time with some like-minded people, as well as make great new business contacts. The meal and entertainment was great and at the exhibition, there was a good mix of exhibitors and, due to the relaxed atmosphere (far more than most trade shows), I was afforded plenty of time to speak to them. I also sat in on some very informative presentations and in particular got a lot of valuable information from listening to Peter Mapp speak. All in all, I will definitely be attending next year and encouraging friends and colleagues to do the same'.



ISCEx 2019

"We had thirty-six exhibitors at ISCEx this year and in-between seminars, exhibitors were constantly engaged in discussions with attendees", comments Ros Wigmore, event organiser for ISCE.

"We strive to keep ISCEx as a very personal event, creating a very intimate and informal environment for business conversations and networking to take place. Feedback has been positive and we're pleased to confirm the dates for ISCEx 2020, which will take place on 17th-18th March 2020", summarises Wigmore.



TO SEE MORE PHOTOS FROM THE EVENT
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Audio-Technica expands Apart Audio distribution into Ireland

Audio-Technica has announced that it has extended its distribution partnership with Belgian installation audio manufacturer Apart Audio to include Northern Ireland and the Republic of Ireland, to take effect from April 2019. Audio-Technica has acted as Apart distributor in Great Britain since 2015 and also represents the brand in France and Spain, supplying from Audio-Technica's EU warehousing facilities in Montfort, Netherlands as well as Leeds, UK.

Logan Helps, Audio-Technica's Apart Brand Manager stated, "We've seen great success with Apart in some exciting projects throughout Great Britain in the last three years and I'm pleased to be able to work alongside our partners, both existing and new, to replicate that success throughout Ireland in the coming months."

Robert Morgan-Males, CEO of Audio-Technica Europe said, "We're delighted to be building on our established relationship with Apart Audio and taking on distribution in both Northern Ireland and the Republic of Ireland. We look forward to increasing the brand's profile in the territory, working in concert with local partners in what we view as a market with great potential."

To allow Irish pro-audio resellers, consultants, designers and integrators the chance to 'meet the brand' and get hands-on with the latest product, the recently-announced Apart Innovation Tour will come to both Northern Ireland and the Republic of Ireland in June (see below for details).

The seminars will showcase new Apart Audio products including the Mask and Kubo series speakers and PREZONE preamplifier/mixers. Also covered in the sessions will be a look at using EASE (Enhanced Acoustic Simulator for Engineers) software in designing and creating fixed installation audio solutions for clients.

Each of the free-to-attend Apart Innovation Tour sessions run between 10am and 3pm and include drinks and refreshments. Places are limited so booking is essential – registration for the UK tour dates is available at <https://audio-technica-ltd.eventbrite.co.uk>

Locations and dates for the Apart Innovation Tour:

- 12 June – Belfast
- 13 June – Dublin ♦



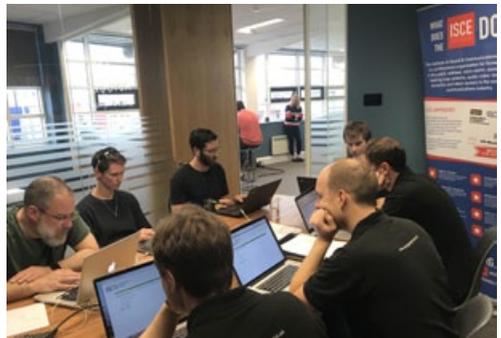
Logan Helps (Brand Manager Apart) & Anders Olsen (International Apart Advisor, EMEA)

ECS Health & Safety assessments

The day before ISCEx 2019, we held an ECS assessment session for our members which was very well attended.

Later in March, we held an in-house test assessment at Autograph Sales & Installation for 12 of their staff.

If you need an ISCE ECS Sound Engineer card, you can also attend any public assessment centre to take the test and order your card through the ISCE web portal.





Jon Doar

1968 - 2019

Jon Doar, the commercial director and much loved colleague of CIE Group for more than 33 years, was a highly influential member of the CIE Board, managing one of the UK's leading commercial audio product ranges through partnerships with brands such as Inter-M, Atlas IED, Clockaudio, CYP and many more.

Jon joined CIE way back in 1985 at the age of just 17 in his very first full-time job in the warehouse. Over the years, Jon moved through the ranks; moving into the audio sales office, later being promoted to audio divisional manager, and most recently being elevated to the Board of Directors in 2009 as part of a management buy-in.

"The CIE team and the many, many friends and colleagues Jon made throughout his career mourn the passing of one of the industry's most loved and respected individuals." said Steve Collin, sales director of CIE. "Jon was instrumental in the relationships and portfolio of products that makes CIE the company it is today. Moreover, Jon brought to every one of his colleagues some of the most unforgettable and joyous memories of our working lives. Jon was truly one of a kind and we all miss him immensely." ♦

New Members Spring 2019

Affiliate Member

Dave Bruton
Imagesound Ltd

Member

David Amann
University of Cambridge

Alistair Blake
UTA Fibre

Ian Bridgewater
TOA Corporation UK

Mark Cornwell
freelance

Jim Fitton
Electrosonic

Alex Hadjigeorgiou
FAC 365 Ltd

Paul Johnson
Paul Johnson Sound Engineering

Roland Oliver
EMEA Harman

Beth Price Williams
Freelance

Tony Shettle
Baldwin Boxall Communications

Senior Technician

Chris Austin
Autograph Sales & Installation

Tim Blake
UTA Fibre

Adam Broom
Autograph Sales & Installations

Steve Costello
Imagesound Ltd

Tim Headley
Impression AudioVisual Ltd

Toby Levan
Bias – AV

Euan MacKenzie
Autograph Sales & Installation

Sophie Powell
Imagesound Ltd

Dan Roncoroni
Autograph Sales & Installations

Anthony Wright
Hilltop Audio Visual Ltd

Technician

John Bidwell
Ashdown Audio Visual

Matthew Carrig
Freelance

Ryan Culshaw
PAS Sound Engineering

Craig Edwards
Mustard Presentations

Tom Knight
Ashdown Audio Visual

Thomas Learmonth
Gordon Morris Ltd

Philip Shields
East Sussex Hearing Resources

Student

Finlay Milne
Imagesound Ltd

Associate

Adomas Budzys
AdomasBu

Upgrade from Graduate to Member

Alberto Fueyo-Gallego
AMS Acoustics

Upgrade from Technician to Member

Liam Pickett
Ashdown Audio Visual

bsi.

Distributor



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AV User Group networking event

On Tuesday 19 March, ISCE was invited to present at the AV User Group networking day at the prestigious Bloomberg building in Queen Victoria Street, London. Helen Goddard and Ros Wigmore had a chance to answer queries from the audience and it was very clear just how important they all felt the audio element of the AV was to them.

Surprisingly, many of the AV User Group members were not aware of ISCE, so this was a great opportunity to tell them about our activities and explain the benefits of ISCE membership to them. Our thanks go to Owen Ellis, Chairman of the AV User Group for making us so welcome. ♦



Reproduced Sound 2019

Creating engagement in sound

19-21 November 2019

The Bristol Hotel, Princes Street, Bristol

In collaboration with ABTT, AES, APRS & ISCE

The 35th Reproduced Sound Conference will focus on all aspects of electroacoustics, and will bring together practitioners, educators and students in an atmosphere with a friendly and enthusiastic 'buzz', which is a hallmark of past RS conferences.

Call for papers on all electroacoustic topics including:

- live event and stage sound
- immersive audio
- acoustics in rooms
- audio system design
- audio signal processing
- loudspeakers
- microphones
- intelligibility
- measurement and evaluation
- cinema and broadcast sound
- case studies.

Authors are encouraged to include practical elements in their presentations and could be allocated extra time if required.

Please send your abstract (150 words) for papers, plus a short biography of up to 150 words to linda.canty@ioa.org.uk by Friday 17 May 2019.

Final written papers for the Proceedings must be submitted by Friday 27 September 2019.

Call for posters

The committee also invites and encourages submissions for poster sessions on the above topics. The poster sessions are intended to give opportunities for delegates, especially students, with work in progress or topics that are not yet ready for a full paper, to present their work.

Technical contacts

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Institute of Acoustics
Silbury Court
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Milton Keynes MK9 2AF

Tel: 0300 999 9675 ♦



Ken Dibble FlinstSCE

1945–2019

We were saddened to hear the passing of Ken Dibble earlier in the year. He was highly respected in his field and will be missed by us all. His son, Robin, shares his life experiences with us.

Ken's interest in audio and electronics started early, with dismantling radio sets, building two way loudspeaker systems into ventilation channels, cardboard boxes, or anything else he could get his hands on.

In his teenage years, he worked part time in a Radio shop in Minehead, and built a basic PA system for his school. He also had a useful side-line in building pre-tuned, miniature transistor radios that fitted in a pocket sized jewellery box for his teachers. These had sufficient output to drive an earpiece, enabling the teacher in question to keep up with the test match scores during the day at school.

Further opportunity to develop his career in audio came with an apprenticeship at the AEI research labs in Rugby. During his time there he started hiring and repairing PA and guitar equipment for the local "Beat Group" community.

This business became Midland Sound Services, which Ken and a partner ran part-time until the latter part of 1970 when it became Midland Sound Limited, and committed himself entirely to that business.

It was now that Ken became firstly a member of the APAE, the precursor of the ISCE.

Through the years of Midland Sound's existence, Ken designed and made all manner of audio equipment, loudspeaker systems, mixers and ancillaries. He toured with The Incredible String Band as their equipment provider and sound engineer, somehow claiming that despite all the time spent with the band

he did not on any single occasion indulge in the copious weed smoking that went with their lifestyle!

He also provided systems for the likes of BA Roberston, Smokie and other bands of note during the period.

He had a frustration on tours, in that the equipment he was providing might sound great one night, and not so great on others. Concluding that this must be entirely down to the rooms that were performed in, he took up the study of acoustics, eventually leaving Midland Sound Limited behind, closing the business and side-stepping into the world of acoustics in 1977.

Ken made quite a name for himself during this period. Firstly through numerous magazine articles, providing technical reviews of touring bands and de-bunking manufacturer's claims for their audio equipment, be that loudspeaker drivers, complete systems or power amplifiers.

Secondly, Ken made a great deal of study into the area of entertainment noise control. Where others would simply slap a volume limiter on a venue that was causing neighbourhood disturbance, Ken combined building acoustics and isolation with innovative electronic techniques to allow entertainment venues to function at sensible volume levels, whilst not upsetting those who lived around them. His years involved in the performing arts giving him the desire to make the most of the performance for the paying public, whilst staying within the regulations.

The project he was probably most proud of over the years was his long involvement with Coventry Cathedral, for which he developed an innovative sound system design in the late 1980s, the basic bi-directional alignment delay principal of which is still in use today, although with rather more modern equipment!

Ken was a very proud Fellow of both the Institute of Acoustics and the Institute of Sound and Communications Engineers, contributing a great deal



to both institutes, in terms of time, technical papers, and committee work, sitting on committees that had bearing on UK statutes in noise control and audio engineering. He also gained Chartered Engineer status through the Institute of Acoustics, with a study of the Coventry project.

Ken died leaving his wife of 52 years, Lesley and his two grown up children, Laura and Robin, both of whom have been involved in Ken's business in one way or another over the years.

It was a heart weakened by a previous heart attack that allowed Ken to pass away peacefully in his sleep on the 28 January, rather than the further suffering that his ongoing dementia would have brought him. ♦

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London-based Wilding Sound introduces RCF to its rental fleet

London-based Wilding Sound has introduced RCF to its rental fleet for the first time.

It has made an initial purchase of eight HDL 6-A composite line array enclosures, with four SUB 8004-AS single 18" subwoofers, along with flyware and pole mount accessories. They swiftly followed this up by adding a further four HDL 6-A.

At the same time Wilding Sound purchased flight cases to hold three HDL 6-A per case to allow ease of dry hire, with space for fly-ware in the back.

"This will give us many options and permutations," said director, Matt Stolton MInstSCE. Among them is the ability to fly the HDL 6-As and deploy the subs in a mono centre spaced array with the aid of their winch stands and truss.

Although this is their first foray into RCF's cutting-edge line array technology, Wilding Sound's own history dates back to the 1970s, installing everything from bus station voice alarms to pubs — and retail.

When they were ready to upgrade to a small format line array box they embarked on a journey that would lead them to RCF. "Our old FOH system just wasn't cutting it," said Stolton, "and was too small to cope with the larger events we were trying to run it on. Whatever we chose needed to offer flexibility and value for money and provide a solution for every job — from small festival stages, as much as corporate conference work and events catering for up to 500-600 people." They saw the HDL 6-A at PLASA 2018 and were immediately impressed. "The more I looked at it, the more I realised it was a perfect fit," he continued. "And once we had heard it, it was a done deal.

Aside from sonic superiority, Wilding's criteria included the necessity for a well-known brand that would be acceptable on riders and a system that would deliver a good return on investment. "Pretty much everything we looked at was fantastic at what it was designed to do, but couldn't do anything else, somewhat one trick ponies." ▶



They auditioned three premier systems but discounted many more “based on lack of features, which hindered flexibility, or after playing with EASE, which revealed some eccentricities.

“Scalability was the key, and the HDL 6-A doesn’t suffer any of these compromises. If you want to hang a long true array of them, it does it. If you want to ground stack six on top of a stack of subs, it does it. If you want to deploy it as a point source box, it does it. And it does it all, at a fantastic price point, with

affordable, elegant, hardware options. On top of that it also sounds good, with surprisingly good low mid for drivers of this size, and does go low enough without subs, so can be used as a stand-alone full range box.”

In summary, the Wilding Sound director says, “This line array will allow us great flexibility in covering all the venues we typically work in. At the same time it will meet client expectations better, both sonically and visually.” ♦

Andy Simmons joins Nexo's UK team



NEXO is pleased to announce that Andy Simmons is joining its UK sales team, bringing with him a wealth of market knowledge acquired over 25 years in the industry.

Simmons comes to NEXO after nearly five years with London-based Orbital Sound, where he was Director of Sales. Orbital has built a strong dealership with NEXO sound reinforcement products, achieving the highest turnover in the UK, and will continue working with Simmons to represent the brand.

An extremely well-known figure in the UK entertainment technology business, Simmons has worked for 'household' names like Crest Audio, XTA and KV2. Starting out in an audio rental company, he has since held key roles in distribution, national and international sales. He will be working closely with NEXO UK Sales Manager Gareth Collyer, effectively but not exclusively covering London and the eastern half of the UK, while Gareth goes west and focusses on NEXO's extremely successful support of the fixed installation sector.

"NEXO is a powerful brand," comments Simmons, "and I'm looking forward to getting out there, spreading the word and raising the profile of this truly distinctive manufacturer, which has created so many benchmark products over the last 30 years. Gareth has done a great job in the UK, my mission now is to broaden NEXO's appeal across the wider British market."

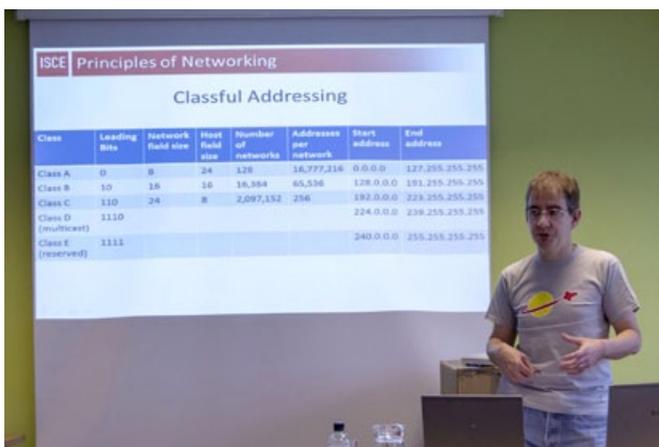
www.nexo.fr ♦

Training update

Since our last magazine, Peter Roe has delivered another successful **Design and Installation** and **Measurement and Certification of hearing loop systems** course at Contacta's offices in Tonbridge. Thank you to Contacta for allowing us the use of its training room.



We have also run an in-house **Principles of Networking** and **Advanced Principles of Networking** for EATON at its offices in Doncaster.



We are now taking bookings for the following ISCE training courses

12 July 2019

Loudspeaker, Room Acoustics and how they interact

to be held at Audiologic, Harlow, Essex

Learn how the correct selection and placement of loudspeakers in a given acoustic environment, has a direct relationship on perceived sound quality in the listener's seat.

Further information and booking [here](#)

9 September 2019

Making Waves – Acoustics for Sound Engineers

to be held at Leisuretec, Leighton Buzzard, Bucks

Learn how to have a better understanding of what happens to sound after it leaves the loudspeaker

Further information and booking [here](#)

Standards update

By Andrew Scott *FInstSCE*

European standards

EN 303 348

EN 303 348 : Induction loop drivers up to 45 amps in the range 10 Hz to 9 kHz. Queries raised on this standard by the ETSI editor have been dealt with and it has been sent to the European Commission who will assess its technical validity. If it passes, it will be sent for publication.

The main technical changes compared to the current version are:

- 1 it covers loop amps up to 45A whereas the current standard does not set an upper limit
- 2 the measurement method comprises measuring the current in a dummy load rather than measuring the magnetic field of a 1 metre loop.
- 3 the longest side of an installed loop is limited to 600 metres.

Possible solution to the Construction Products Regulation (CPR) 'logjam'

TC 72 is still waiting to hear whether its proposal to introduce a form of classification is acceptable (although we cannot use that word because it has a special legal meaning in the CPR). If it is, each test for a product will be listed and products that meet the current minimum performance limits will be described as '1' for that test. Products that fail will be described as '0' for that test. Both classes of product can be CE marked in relation to the standard and so can legally be placed on the market.

This proposal also allows for optional features that are not provided to be described as 'X', solving the problem of how to handle 'options with requirements'.

EN 54-24 (Voice alarm) Loudspeakers

CEN TC72 WG23 is still waiting to receive an English translation of a new DIN standard on active loudspeakers to find out if it gives practical requirements and tests for the assessment of active loudspeakers that will be acceptable to industry.

However, it may not be necessary to carry out this work after all - see 'logjam' above.

EN 54-16

Voice alarm control and indicating equipment

CEN TC72 WG23's EN 54-16 task group has completed the revision of Clause 4 (Characteristics) the annexes. These are being sent to WG23 to check and then clause 5 (tests) will be drafted.

British standards

BS 5839-8 and BS 5839-9

At the time of writing, no work is planned on topics relevant to voice alarms or emergency voice communication systems. However, some comments on BS 5839-9 have been received from the Fire Industry Association and these will be reviewed at the next meeting of FSH/12/5, which will take place in May.

Other standards

Contributions are invited from members, for example, we are also interested to know about standards updates from other countries. Please contact Ros. ♦

Disclaimer

This information is believed to be correct but it is not guaranteed and neither the ISCE nor its officers can accept any responsibility in respect of the contents or any events arising from use of the information contained within this article.

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Application Solutions (Safety & Security) Ltd

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www.graingeracoustics.co.uk

Hearing Products International Ltd

www.hear4you.com

Honeywell Life Safety Systems

www.honeywell.com

Infoil

www.infoil.co.uk

Kelsey Acoustics

www.kelseyacoustics.co.uk

Leisuretec Distribution Ltd

www.leisuretec.co.uk

Midwich Ltd

www.midwich.com

Monacor UK Ltd

www.monacor.co.uk

Mongey Communications

www.mongey.ie

MSI Audio Systems

www.msiaudiosystems.com

Newtech Southern Ltd

www.newtechsouthern.co.uk

NEXO SA

www.nexo.fr

Northern Light

www.northernlight.co.uk

NSR Communications Ltd

www.nsrcommunications.co.uk

Paragon Data Services

www.paragondataservices.co.uk

Peavey Electronics Ltd

www.peaveycommercialaudio.com

PEL Services

www.pel.co.uk

Penton UK Ltd

www.pentonuk.co.uk

Principle Link

www.principle-link.com

Professional Sound Consultancy

www.profsoundconsult.com

Protect Fire Detection

www.protec.co.uk

Pulse Sound and Vision

www.pulsesoundandvision.co.uk

RCF Audio, Essex

www.rcfaudio.co.uk

Reflex Soundpoint

www.reflex-soundpoint.co.uk

Sarabec Limited

www.sarabec.co.uk

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www.sennheiser.co.uk

Shure UK

www.shure.co.uk

SigNET (AC) Ltd

www.signet-ac.co.uk

Simcol Communications Ltd

www.simcol.biz

Simpson Sound & Vision Ltd

www.simpsonsoundandvision.com

Solent Sound Systems Ltd

www.solentsound.com

Sonic Solutions (UK) Ltd

www.flipside-soundsystem.co.uk

Sound Directions Ltd

www.sounddirections.co.uk

Sound Productions

www.soundproductions.ie

Source Distribution

www.sourcedistribution.co.uk

SSE Audio Group

www.sseaudio.com

TOA Corporation (UK) Ltd

www.toa.co.uk

Univox Audio Ltd

www.univoxaudio.co.uk

Vaughan Sound Installations Ltd

www.paigroup.com

Vox Ignis Ltd

www.vox-ignis.com

VP Bastion Ltd

www.vpbastion.co.uk

Yamaha Music Europe (GmbH)

www.yamahaproaudio.com



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