

The magazine of the  
Institute of Sound and  
Communications Engineers

**Winter 2018–19**

**ISCE**



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Comments on articles and letters are invited.

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# Introduction from our President



Hello and welcome to what would normally be our Winter 2018 edition. However, we decided to publish this in January 2019 in order to provide a more comprehensive preview for ISCEX 2019.

Firstly, may I wish you all a happy and hopefully prosperous new year.

This will be the last time that I write our magazine 'intro' as President. My three-year period finishes at our AGM on 5 March. At the AGM, I will officially hand over our Institute Presidency to Helen Goddard FInstSCE. However, I will be remaining as both a Director of the Institute and Council Member.

Together, with our Council and Secretariat, I believe we have achieved a very positive future for our Institute during this period. We have grown our membership substantially both Individual and our Supporting Members. Some key milestones over this time include:

- Completely new website
- New Membership Database and Administration Portal
- Web-based Membership Directory and Events Portal
- New accounting software
- ECS Card Scheme
- CPD Approvals for our training events
- CPD for ISCE members scheme
- Health & Safety Document Templates for our membership
- Positive growth for our annual exhibition ISCEX

Regarding ISCEX, please try to visit the exhibition this year. It is an ideal event to meet up with fellow members and to keep up to date with industry trends and of course, see the new technology from our exhibitors. Also try to attend the AGM on 5 March. It is YOUR opportunity to influence and participate in the future plans of the Institute. There are still tickets available for our networking dinner after the AGM. Why not stay the night at Coombe Abbey, but remember to book your accommodation as places are limited and the deadline of 4 February is fast approaching.

I would like to thank all our Members, Directors, Council and Secretariat for the support during my Presidency. I would ask you all to congratulate and support Helen Goddard when she takes over as President in March. Helen joined the Institute in 1996. You will know her as the Principal of AMS Acoustics which is now one of the world's leading acoustic consultants.

Over the years, particularly during the period she joined our Council, Helen has been very 'hands on' in promoting our Institute, especially in promoting technical excellence and I know she will take the Institute forward even more, with her drive and enthusiasm. ♦

## Phil Price FInstSCE



We welcome your contributions to the magazine with editorial and advertising. Please send news or articles to **Ros**

## Events Diary

**5-8 February 2019**  
**ISE**  
Amsterdam, Netherlands

**26-27 February 2019**  
**Event Production Show**  
London, UK

**5 March 2019**  
**ECS H&S assessment**  
Coombe Abbey, Nr Coventry, UK

**5 March 2019**  
**ISCEX AGM & Networking Dinner**  
Coombe Abbey, Nr Coventry, UK

**6 March 2019**  
**ISCEX Exhibition and Seminar Day**  
Coombe Abbey, Nr Coventry, UK

**2-5 April 2019**  
**Prolight+Sound**  
Frankfurt, Germany

**14-15 May 2019**  
**PLASA Focus**  
Leeds

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# Hotel Indigo

## 1 Leicester Square's panoramic venue complimented by discreet K-array solution

**AT&C** Professional Systems Ltd chooses K-array for exclusive Leicester Square hotel boasting views over the city.

With the prestigious address of 1 Leicester Square, the building formerly known as the super-club Home has been reinvented as Hotel Indigo – 1 Leicester Square, one of the British capital's most exclusive destinations. Offering unbeatable views over the city from its top floor bar, the hotel can also boast of an equally impressive K-array audio system, supplied and installed by leading systems integrator AT&C Professional Systems Ltd.

Standing nine storeys high and the result of a four year project, the recently opened Hotel Indigo – 1 Leicester Square is rapidly attracting a reputation as a unique, characterful venue for high society gatherings. Awaiting guests at the top of a short elevator ride is the restaurant bar which crowns the building. Inside, floor-to-ceiling windows and an abundance of mirrors create a sophisticated atmosphere while offering breath-taking views. But the décor created acoustic challenges for AT&C Project Manager Ian Dunn, as he worked to deliver the “adaptable and extremely discreet” high-end audio system requested by the hotel's owner, Criterion. ▶

“The original specifications were quite traditional, with big black speaker enclosures. But they wouldn’t have provided the proper coverage and they would have been far too intrusive – we would have had to recess them into the ceiling,” he explains. “Instead we chose a K-array solution which is much better. It’s a practical high-end system that complements the interior design whilst still packing a punch.”

Working with the exclusive UK distributor for K-array, 2B Heard, AT&C developed a solution to cover three distinct zones. “The private dining room required a background music system that could function independently of the rest, while the audio within the bar needed to be capable of handling everything from BGM through to a live DJ,” Dunn explains. “The restaurant needed a more ambient sound, so as not to disturb diners. Hence the need for three separate zones.”

The private dining area consists of two Tornado KT2W mounted opposite one another with a Rumble KU210 subwoofer discreetly positioned beneath one of the sofas to “give a lovely warm sound”. The restaurant hides two Rumble KU210 subs, again tucked away beneath seating, while a further six Tornado KT2Cs are installed out-of-view within the ceiling to provide seamless coverage. “The fact the Tornados are in the ceiling creates an even but unobtrusive sound, which is ideal for this area,” says Dunn. “In fact, very few people realise the speakers are there.”

The central bar area houses a higher power system, at the heart of which are two Kobra KK52 compact line array columns. Both have been custom-painted in a specially ordered RAL shade of white, and are suspended from the ceiling by custom brackets.

“One of the biggest challenges we faced is that this area is effectively a big glass box,” continues Dunn. “We needed to angle the speakers inwards because of the reflections so we were going to mount the speakers on the pillars just in front of the glass walls. However, during the design phase this option was eliminated due to mirrored tiles being placed on the pillars! We had to think outside of the box so we decided to suspend the Kobra KK52s from the ceiling, still positioned in front of the pillars so as not to detract from the view.”

Crucially, the tight directivity of the KK52s meant that the reflective surfaces could be avoided whilst the system still delivered the required power – no matter how near or far a guest happens to be. “The



beauty of the Kobra KK52s is that they’re line-arrays,” Dunn reasons. “You don’t experience any harsh SPL difference when you’re standing right next to the column compared to when you’re 10 or 20 feet away. It’s so clever for such a small speaker, and it’s perfect for creating an audio system where the speakers are hidden away but they can still thump when you need them to.”

Another pair of Tornado KT2Cs provide coverage near the entrance, while low-end extension within the bar area is handled by a Thunder KMT12P subwoofer, housed unobtrusively within the stainless-steel bar itself.

Dunn is quick to praise the now completed system and his experience of working with 2B Heard. “We worked with Sam and Dave from 2B Heard from the beginning of the project, with the initial design, and also on previous projects,” he says. “They work tirelessly and are always on the phone when I have a query or problem. We have some other projects coming up in the future that are also using K-array through 2B Heard – they are a great solution.”

He concludes: “The client appreciates what this system can do and this is one of the AV installs that we are the happiest with.”

[www.2b-heard.com](http://www.2b-heard.com) ♦

**FREE**  
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**ISCEX**  
**2019**

Join us at ISCEX 2019  
on 6 March 2019

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If you're working in commercial audio system design, integration, project management or sales, ISCEX 2019 provides excellent opportunities to learn, engage and discuss commercial audio solutions in an intimate, non-imposing environment.

Taking place at Coombe Abbey on Wednesday 6 March 2019, ISCEX combines educational seminars with leading networking opportunities and a table-top exhibition from more than thirty five commercial and pro audio market leaders.

Registration is free at [www.iscex.org.uk](http://www.iscex.org.uk)

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**WWW.ISCEX.ORG.UK**



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# ISCEx show guide

Keep up-to-date with the latest information on product launches and news by visiting [www.isce.org.uk/isce-ex-event/isce-ex-2019](http://www.isce.org.uk/isce-ex-event/isce-ex-2019)

## Schedule

### Day 1 · 5 March 2019

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1.00pm

#### **ISCE ECS Card Health & Safety Assessment**

Members

Book in advance [here](#)

3.00pm

#### **Annual general meeting**

Members, Supporting Members

Book in advance [here](#)

7.00pm

#### **Annual networking dinner**

Starting at 7pm with pre-dinner drinks. ISCE will be hosting a networking dinner in the elegant dining suite of Coombe Abbey on the eve of the exhibition and we would like you to join us.

Book in advance [here](#)

### Day 2 · 6 March 2019

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9.00am

#### **Exhibition opens**

10.00am

Hopkins-Baldwin Lecture

#### **Remote management in AV Martin M Bonsoir MInstSCE**

AV equipment is increasingly considered a vital asset of a building's infrastructure, the ability to manage, control and maintain that equipment effectively and securely is of paramount importance.

11.30am

Warren-Barnett Memorial Lecture

#### **Psychoacoustics for sound engineers – or why did I hear that? Peter Mapp HonFInstSCE**

The basis of everyday acoustics and audio phenomena we use when designing and setting up sound systems.

2.30pm

The ISCEx Lecture

#### **Embracing the move to network-based audio David Needham, Axis Communications**

How to take advantage of IP audio and migrate existing analogue audio installations.

4.30pm

#### **Exhibition closes**

## ISCEx exhibitors

			
			
			
			
			
			
			
			
			

## ISCEx exhibitor and product guide



Ambient System shall be exhibiting miniVES is TCP/IP based scalable Public Address & Voice Alarm (PA/VA) unit suitable for multi-purpose architectures. As a stand-alone unit miniVES is cost efficient and powerful PA/VA for small buildings like supermarkets, hotels or schools with basic features like voice evacuation, paging or background music.



ASL is a leading manufacturer of Public Address, Voice Alarm, Commercial Audio and 3D Control Systems with over 20 years experience in delivering fully built and tested solutions. ASL has an extensive history of providing commissioning support and project management services for our customers and for major projects all around the world.



Audiologic is one of the AV industry's most respected audio solutions providers and the exclusive UK distribution channel for leading audio manufacturers including Ecler, AMC, ARX and Quartex. We also hold valuable distribution rights for other key manufacturing partners including Shure and QSC and add real value to our client relationships with proven system design and advice in such diverse markets as corporate, hospitality, forward-thinking educational institutions, retail and leisure environments.



Axis offers intelligent security solutions that enable a smarter, safer world. As the market leader in network video, Axis is driving the industry by continually launching innovative network products based on an open platform – delivering high value to customers through a global partner network. Axis has long-term relationships with partners and provides them with knowledge and ground-breaking network products in existing and new markets. Axis has more than 3,000 dedicated employees in more than 50 countries around the world, supported by a global network of over 90,000 partners. Founded in 1984, Axis is a Sweden-based company.

## ISCEx exhibitor product guide



Cambridge Sound Management, the world's largest provider of sound masking solutions, manufactures sound masking systems to help organizations across multiple industries protect speech privacy, reduce noise distractions, and increase workplace productivity. Cambridge Sound Management's proprietary technology works by emitting a uniform, barely perceptible background sound at frequencies of human speech.



**Designed with purpose, tested with care, to sound better and last longer.**

For more than three decades Cloud Electronics has led the field in high-quality commercial audio systems. Over time the world's most prestigious and respected brand names have turned to us without question, again and again.

We shall be exhibiting and demonstrating our new CV-Digital Amplifier Series with full DSP suite, our new MA80 Mini Amplifier Series and our new Contractor Speaker Series.



As one of the few truly independent wholesale distributors in the UK and a supporting member of the ISCE Commercial Audio Solutions are proud of our brand portfolio and committed to our 'trade only' status. 2019 will usher in some big changes for Commercial Audio.

A brand new purpose-built warehouse will give us far greater stocking capability and allow us to build on our reputation for first class customer service.



Source Distribution will be displaying Genelec's range of loudspeakers for the audio and AV installation market

## ISCEx exhibitor product guide



Hearing Products International Limited, the UK's premium supplier of 'own brand' hearing loops, induction loop systems/television listeners/voice amplifiers and alert systems. 1992–2018 and now introducing the MegaLoop Pro™ remote controlled loop system covering larger areas, capable of meeting BS. EN 60118-4:2015 for a loop area not exceeding an area of 90 sqm. Providing an outstanding powerful audio signal that connects up to 4 audio line inputs, including optical and coaxial, 2 microphone inputs and smart design.



Honeywell Security and Fire UK&I is a global manufacturer of fire detection and voice alarm systems. We have a complete range of EN54-16 Voice Alarm Control Equipment and EN54-24 certified loudspeaker range to compliment. Our VAPA systems are fully scale-able to meet all project sizes and types. Our product is supported by a team of VAPA Applications, Design, Support and Training personnel in order to deliver systems compliant to BS5839-8 in the UK.



Leisuretec Distribution Ltd are trade distributors of sound, lighting, video, special effects and ancillary. Through our clients we address a vast majority of markets: live entertainment, event production, AV installation, studio, broadcast and many more. Our client base is typically made up of installers, hire & rental houses, production companies and resellers. Our mission is to provide you with an efficient and reliable distribution service consisting of extensive stock holding, speedy delivery and superior technical support.



Monacor UK is one of Europe's leading distributors in sound, lighting, security and accessories to the professional market. We help our customers find the best solution possible for their commercial installations.



NEXO expands its products ranges: – GEO M10: New advanced compact line array; – NXAMP mk2: Available in 4 x 1300 Watts and 4 x 2500 Watts versions, the NXAMP mk2 combines advanced signal processing.

## ISCEx exhibitor product guide



RCF will be displaying a variety of new products at the ISCEx exhibition from across the Commercial audio and Installation markets. Our product specialists will be on hand to answer any questions and run through the feature sets on the new additions and our existing products. We will show the new 'VSA Mark 2' Digitally Steerable Active Column Speaker family. The range consists of three models VSA 2050 with 20 transducers and individual active amplifiers. 'VSA 1250 MK 2' and 'VSA 850 MK 2' with 12 and 8 transducers respectively

The new Mark 2 VSA range has been re-engineered to be controlled by RCF 'RDNet'. Each device has its own DSP, giving the possibilities to address specific presets or parameter change to single or groups of objects. The beam steering configuration is fast and precise, as well as the equalisation adjustments. We will also demonstrate the RDNet Software. RCF will also be using the extremely popular EVOX Portable Active Loudspeaker Systems for all the general PA requirements at ISCEx.



Our award-winning products exceed your audio needs. We have audio solutions for AV conferencing, presentations, event, discussion and so much more. From advanced wireless and wired conferencing systems to industry-leading ceiling and table array microphones – if you need it, we have it.

Visit Shure at ISCEx 2019 and find out how we bring your work to life.



Sound Directions Ltd is an exclusive distributor for a number of prestigious brand partners including Ashly, Auvitran, MystSystems, Soft dB and SoundTube.

Specialising in Directional Sound, Sound Masking and System Design we are able to support trade customers with expert product advice in these sometimes complex areas.



TOA Corporation UK will be proudly displaying our vast array of professional audio and security equipment. Including the award-nominated D-5000 Digital Wireless System, our Trantec Wireless range, VX-3000 Series Wall Mount System, and the very latest in our IP horn technology.



# Production Futures

Production Futures took place at Production Park in Wakefield in November.

The event, which included the TPi Breakthrough Talent Awards, was an opportunity for students and freelancers to get their first taste of the industry through exhibitors, talks from industry professionals and a series of training sessions.

ISCE were one of the sponsors of the event, and Ros and Colleen were thrilled to meet so many people on the ISCE stand, looking to get into the sound industry. ♦



# Another excellent Security & Fire Excellence Awards all wrapped up for another year

In November, the great and the good of the security and fire sectors gathered at the Hilton, Park Lane for another fantastic awards event.

James Nesbitt brought the house down before he even set foot on stage, with a belting rendition of 'Fly Me To The Moon'. A few quality anecdotes later, he presented the very worthy winners with their trophies, in front of over 900 applauding guests.

ISCE were a media partner for the event, and Ros took to the stage to present the award for

Contributions to Standards in the Security Sector, the winner being Doug Edwards, MD of VPS Guardians.

Our newest supporting member, Axis Communications, had an amazing evening, scooping up several awards on the night.

It was a great event and plans are in place to hold the award again this year provisionally on 20 November at the Hilton, Park Lane. ♦



# Canford support pantomime broadcast to over 130 hospitals

For the past six years a team of broadcast and marketing professionals from around the North East of England have donated their time to bringing some of the magic of Pantomime to poorly children (and adults), who find themselves in hospital over the festive season.

The selfless-team, once again led by Nicky Scott, Head of Production at Future & Co gave up their time to record, edit and distribute Newcastle Theatre Royal's performance of Goldilocks and the Three Bears.

Nicky explains: "The original idea to film and broadcast the pantomime came from Howard Tait, who is the director of advertising agency MTR and also a trustee of the Theatre Royal. He used to provide tickets to poorly children to see the pantomime at Christmas, but later realised that the sickest children couldn't actually leave hospital, and were missing out. So he came up with the idea to film it and take the show to them instead."

The team relies heavily upon the goodwill of businesses who provide the technical equipment required. This includes multiple video cameras,

professional audio equipment and reliable comms. Canford was happy to answer the call for help, and agreed to supply its Tecpro wired intercom system free of charge, which is routinely used as the communications system of choice for theatres worldwide.

Nicky concludes: "The Tecpro comms help us enormously. The live action environment of the pantomime show is very loud, with music, fireworks, actors shouting and audience responding, clapping and cheering. In previous years we struggled using regular walkie-talkies and earpieces, but my camera operators simply couldn't hear me giving them instructions. Wearing Tecpro beltpacks and headsets enables the team to communicate clearly with each other, and I can direct the camera operators to specific shots that I need, or give them advance notice of on stage action, which is crucial with such a fast paced show."

[www.canford.co.uk](http://www.canford.co.uk) ♦

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## Audiologic undertakes major recruitment drive

**A**udiologic has experienced an extraordinary year in terms of growth and market expansion. The company was appointed an Industry Market Partner by AV supplier QSC, something that led to an exponential increase in demand. To keep pace with this rapid growth, the company has tripled the size of its warehouse capacity this year, as well as adding nine new team members, six of whom have joined in the past three months alone.



Richard Minter, who joined the company as Procurement Manager, began a distinguished career at Hayden Laboratories and TEAC/Tascam before rising to the position of Operations Manager at Sennheiser.

He is a well-known and widely respected figure in the AV industry, whose knowledge and experience of the market is already proving to be an invaluable asset to Audiologic during this phase of accelerated growth.



Anna Shahin took up the post of Application Support Engineer, having recently graduated from the University of Hertfordshire with a first class honours degree in Audio Recording and Production. In addition to her academic career,

Anna has hands-on experience as a studio technician and technical crew member at numerous live events. The combination of her academic and professional experience will enable her to fit comfortably into the front-line of supporting Audiologic's large and varied customer base.

The Audiologic sales team has also seen the addition of 4 new employees. Simon Jones and David Thompson both occupy positions as Business Managers, while Vicky Clayden and Jessica Raraty have joined as Sales Administrators. This added capacity will support the company's continuing growth, whilst simultaneously retaining Audiologic's all-important personal touch. Further additions to the team include Accounts Assistant, Rhoda Warren, Marketing Coordinator, Kamil Hamidou and Warehouse Operative, Paul Miller.

Audiologic is now set to take on the challenges of what will doubtless be another busy, demanding and successful new year.

**[www.audiologic.uk](http://www.audiologic.uk)** ♦



# CIE continues support for Maggie's Centre

Following on from the success of the 2017 Charity Cycle Challenge, CIE has taken on their annual challenge of cycling 500 miles through France, in just three days.

The team has previously raised over £40,000 for deserving charities by fundraising through bike rides and running challenges. In 2018, CIE once again chose to support the British Heart Foundation, Cancer Research, and a local charity close to their hearts, Maggie's Cancer Support Centre in Nottingham.

The group were sponsored by Axis Communications, celebrating the new CIE and AXIS distribution partnership. Sporting new colours, TEAM AXIS took to the Alps early October, cycling from Rouen to Annecy over three days, taking on 500+ miles and almost 30,000 feet of climbing.

The team included five CIE staff members; Andrew Short, Senior Technical Support, Steve Collin, Group Sales Director, Chris Edwards, Marketing Director, Kevin Sherwood, Field Sales Director and Brent Hill, Volt Stick Account Manager.

After 72 hours of cycling, sweat and hills, the team ended their challenge raising in excess of £8,000 for charity - £4,000 of which will go directly to the Maggie's Centre, with £2,000 each reaching the British Heart Foundation and Cancer Research respectively.

Maggies Centre Manager, Kate Martin said, "Fundraising is hugely important to us and we're so grateful to CIE for recognising the support we've given to their colleagues and for raising this money for us, so we can continue to provide the high level of support that we do."

[www.cie-ltd.co.uk](http://www.cie-ltd.co.uk) ♦

## CIE announces appointment of new AV Account Manager



**CIE**, a leading UK AV distributor, has appointed David Dorton as its business development manager for the UK. Dorton will focus on the company's expanding major projects business and developing new and existing

relationships throughout the UK.

Dorton, previously business development manager for induction loop specialists Contacta Systems, has worked within strategic sales in the audiovisual industry for the past 2 years, overseeing partnerships with vendors, delivering sales training and increasing revenue for integration partners.

Dorton said: "It's a really exciting new challenge to be joining the CIE team, having followed their innovative approach to true value-added distribution in recent years. Having worked in partnership with CIE whilst at Contacta, it's given me the opportunity to learn CIE's unique new approach to placing service and support as the priority to delivering a great customer experience."

CIE Field Sales Director, Kevin Sherwood added: "David joins us at a very exciting time as we expand our AV-over-IP product range and continue to increase our systems & major projects team. We look forward to seeing David's experience with corporate clients open up a wide range of new opportunities for our AV integrator customer base."

[www.cie-ltd.co.uk](http://www.cie-ltd.co.uk) ♦

## Opportunity to upgrade your membership

At ISCEx 2019, there will be an opportunity for you to attend an informal upgrade interview with the membership committee.

We encourage our members to upgrade and if you feel you have the right experience and skills to meet the criteria, please get in touch with Ros, who will arrange an appointment.

Of course, you can always submit a technical report if you are unable to attend an interview, where you can write about a project in which you were involved, research you have carried out, a piece of original theory or even a solution to a hypothetical situation. Whatever you choose, it must demonstrate that you are technically competent to the required level in the area of your choice.

## ISCE Annual General Meeting

The 22nd AGM for ISCE will take place on Tuesday 5 March 2019 – 3pm at Coombe Abbey, Binley, Nr Coventry

**Further details will follow in due course – but be sure to note the date in your diary**

# CPD for ISCE Members

At the 2018 AGM, Doug Edworthy HonFInstSCE, gave a presentation about the 'CPD for ISCE Members' scheme – a copy of his presentation can be accessed via the Members' only pages of the website, along with a CPD activity form.

ISCE introduced the CPD for ISCE Members scheme last year, to help our members maintain and enhance their knowledge and skills, and so contribute to the raising of competence in our industry. To be taken seriously, our Institute has to demonstrate its professionalism and the professionalism of its members.

It isn't a box-ticking exercise or training for training sake and it certainly isn't about how many hours you can record. It is about planning your goals and what you need to learn to achieve those goals, keeping brief records and then reflecting on the outcomes that are achieved and what needs doing differently in the next CPD period.

CPD doesn't have to be formal training – that is a big misunderstanding. There are a whole range of things you can do that will help you develop your knowledge, understanding and skills.

Here are just a few:

- Work experience, particularly new projects or initiatives
- Volunteering in a professional capacity
- On-the-job training
- Completing qualifications
- Short courses and workshops
- Private studying such as reading or research
- Mentoring and coaching
- Writing and delivering a training course
- Attending events and conferences
- eLearning via webinars or distance learning and much more.

So, it is the process of planning, doing and reflecting that is important, not the accumulation of hours or points.

ISCE will be assessing members' CPD activity over the coming months. We are pleased to see that some of our members have already completed this exercise, but there are many more that haven't.

We would be grateful if you could take a look at the goals you set and reflect on what changes needs to be made for 2019. ♦





## Audio-Technica microphones capture live and broadcast audio at Youth Olympics in Buenos Aires, Argentina

A variety of Audio-Technica microphones were chosen to capture both live and broadcast audio at the Youth Olympics Games, which took place between 6-18 October in Buenos Aires, Argentina. The announcement was made by Michael Edwards, Audio-Technica Vice President, Professional Markets, and is part of Audio-Technica's longstanding tradition of providing mic solutions for high-profile athletic events.

The Youth Olympic Games, held every two years (Winter and Summer games staggered in years opposite the adult games), are an international multi-sport event organised by the International Olympic Committee. Buenos Aires 2018 was the scenario for 32 sports and 36 disciplines and saw the debut of karate, sport climbing, breaking, roller speed skating, futsal, kiteboarding, beach handball and BMX freestyle events.

A wide selection of Audio-Technica microphones were employed, including BP4071 and BP4073 shotgun condenser microphones, the AT899 subminiature omnidirectional condenser lavalier model and BP4001 cardioid dynamic microphones (handheld, for interviews).

"We are pleased to be participating in the technical setup at the Buenos Aires Youth Olympic Games," stated Michael Edwards. "We know that these audio professionals need the peace of mind that can only come from dependable products, and we are proud to be a name they turn to for these high-profile events."

[www.eu.audio-technica.com](http://www.eu.audio-technica.com). ♦

# Document templates



**W**e are delighted to tell you about a new benefit for ISCE members, that we are sure will help you with your business.

ISCE has partnered with HS and EL Direct to provide a source of valuable document templates, such as contracts of employment, data protection, risk assessment etc, for ISCE members to download and use free of charge. These can be found in the ISCE Members' Only area of the website.

HS and EL Direct has a large team of professional dedicated staff to help you manage all aspects of your company's Health & Safety and legal requirements 364 days a year. Consultants are available to provide you with detailed information on the rules and regulations set by the Health & Safety Executive, current employment legislation and ACAS codes of practice, as well as providing information and assistance for setting up your own Risk Assessments, Method Statements and COSHH Assessments.

**For further information about the support packages, please email: [c.pearson@eldirect.co.uk](mailto:c.pearson@eldirect.co.uk) ♦**

## Resources

Have you looked on the Resources page of our website recently? You will find lots of information that could help you go about your day-to-day business. In particular, you can now download a *Buyers Guide to Voice Alarm Systems* under the articles section.

You can use this as a reference when speaking to your clients if they are involved in the development of a new building project or the upgrade of an existing facility, or they have started a new role and inherited

this life safety system. The guide will help people navigate their way to having a safe and effective alarm system in complete compliance with the necessary standards. Our Lobbying Committee will be working hard to raise the profile of the ISCE to Safety Officers and the importance of using ISCE members for a professional standard of work.

**<https://www.isce.org.uk/resources>**

# RCF Group announces the acquisition of DPA Microphones

**RCF** Group, one of the fastest growing groups in the Pro Audio market, recently announced the signing of a definitive agreement for the acquisition of DPA Microphones A/S (“DPA”) from The Riverside Company.

DPA, based in Allerød Denmark, is the #1 premium brand in the high-end professional audio microphone market for the live, broadcasting, theatre and studio end-user segments and is known as the undisputed quality leader in the industry, continuously pushing the boundaries with regards to performance and durability.

RCF Group, with Headquarters in Italy and branches in the USA and Europe, operates under the companies RCF, AEB Industriale (dB Technologies) and EAW and is an international leader in designing, producing and selling products and solutions for professional audio and installation systems. RCF Group generates over 80% of its revenues outside of Italy in 120 countries.

In 2017 two prominent European private equity players, Palladio Holding and Amundi Private Equity Funds, entered in RCF Group with a minority stake in order to support and enhance the group in its ambitious growth plans.

Following the September 2018 acquisition of EAW, the iconic company in the history of install and touring sound, the acquisition of DPA represents a second important milestone on RCF Group’s impressive growth path.

Arturo Vicari, CEO of RCF Group said: “Since my early days I have been fascinated by the world of microphones. Our portfolio already represents excellence in pro audio and we are very proud to add DPA – a company that represents excellence in the microphone industry - to our roster. We can now offer the complete audio chain, from microphones to speakers for the satisfaction of professionals around the world.”

Kalle Hvidt Nielsen, CEO of DPA said: “We have come a long way during the past few years. Share of sales coming from new products are up from less than 5% to more than 40%, and all major areas in the business have been professionalized and streamlined. Now we look forward to a bright future under new ownership in a Group with an uncompromising quality oriented approach to the Pro Audio business – just like ours.”

[www.rcf-group.it](http://www.rcf-group.it) ♦

## New Members Winter 2018–19

### Affiliate Member

**Philip Aitken**  
Wigwam Acoustics Ltd

### Member

**Paul Abbott**  
Commend UK

**Geoffrey Matthews**  
Johnson Controls

**Robert Priddle**  
Wigwam Acoustics Ltd

**Henry Rawlins**  
ASL

**Liam Richards**  
Commend UK

**Tony Santangeli**  
LMG

**Matthew Stolton**  
Wilding Sound

**Ben Wiffen**  
Ben Wiffen Sound

### Senior Technician

**Martin Luther**  
**John Meaney**

VP Bastion

**Chris Woodruff**  
Full-Volume

### Technician

**Joe Napper**  
API Communications Ltd

**Gary Wilison**  
Commend UK

### Student

**Scott Bryson**

### Associate

**Malcolm Brand**

**Upgrade from  
Student to Technician**

**Tom Fryer**  
ProAudium

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## ISCE welcomes new supporting members



### Smart commercial audio on the network

Axis is the market leader in network video having invented the world's first network camera back in 1996. Taking a holistic approach to the security market with regards to video surveillance and access control it was only natural to venture into the area of network audio.

All Axis solutions are based on open standards for easy integration with other systems, anything from camera triggered audio announcements in individual speakers to full SIP integration with your VOIP telephony system

Axis Communications are pleased to become supporting members of ISCE, as not only do we share a common belief in the importance of constant improvements in the field of audio, but feel that by being members we'll be able to leverage and share knowledge.

Our new audio solutions offer a world of new possibilities within background music, public address and security applications.

[www.axis.com](http://www.axis.com) ♦

If you want to join a select group of companies who have chosen to encourage us in our efforts to improve technical standards and practices within the sound industry, contact Ros for an application form or go to [www.isce.org.uk/membership/isce-supporting-members/](http://www.isce.org.uk/membership/isce-supporting-members/)

# ISCE

The Institute of Sound and  
Communications Engineers

**Supporting Member**

Committed to technical excellence

# Training update

## Electrical safety for sound engineers

We were pleased to offer **Electrical safety for sound engineers** course in October last year and our thanks go to SSE Audio for hosting the training at their offices in Park Royal London and to Jason Brameld MInstSCE for presenting the course.

## Audio for AV engineers

We were also pleased to offer our **Audio for AV engineers** course in January and our thanks go to d&b audiotechnic GB for hosting the training at their offices in Nailsworth, Stroud.

We are thrilled to welcome Roland Higham MInstSCE as a new presenter for the ISCE. Roland has a vast knowledge within the audio industry and today mainly commissions and programs DSP and control systems for all types of AV installations including Expos, exhibitions and the more conventional meeting rooms and lecture theatres



## In-house training

We have been busy arranging and delivering **in-house training** for companies around the UK and if you feel this could benefit your organisation, do get in touch.



## ISCE Sound Engineer ECS card

As you already know ISCE have been approved by the Electrotechnical Certification Scheme (ECS) to issue the ISCE Sound Engineer ECS cards to all accredited members and have also been accredited as an ECS Health and Safety assessment centre. We were delighted to run an in-house session at Wigwam Acoustics in November. If your team could benefit from an in-house ECS Health and Safety assessment session at your offices, please talk to us to see if this can be arranged.



Our next ECS Health and Safety assessment session will be during ISCEEx 2019 at Coombe Abbey on 5 March 2019 at 1 pm and you can book your session **here**. ♦

# Standards update

By Andrew Scott *FlntSCE*

## European standards

### EN 303 348

EN 303 348 : Induction loop drivers up to 45 amps in the range 10 Hz to 9 kHz. Unsurprisingly, the European Commission has not published the standard in the Official Journal of the European Union and it has been returned to the drafting team for clarifications and editorial changes.

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

TC 72 has been working with the commission to try to find a solution to the mismatch between the requirements of the CPR, which are intended to facilitate free trade, and those of most stakeholders, who want to have minimum performance limits.

The proposed solution is to introduce a form of classification (although we cannot use that word because it has a special legal meaning in the CPR). 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'.

Local regulations, such as BS 5839-8 in the UK, will recommend at least '1' for all tests and will warn that products with one or more tests described as '0' should only be used if this can be justified in writing.

The up-side of this is that it will be legal to place products on the market that fail current tests, but which have benefits in certain circumstances, such as narrow band horns and active loudspeakers.

The risk is that installers will not understand this and will use '0' description products incorrectly if they are cheap.

A fire detector standard has been drafted in this format and we are now waiting to find out if it will be acceptable to the commission. If it is, it will be possible to revise all EN 54 series standards to this format.

### EN 54-24 (Voice alarm) Loudspeakers

CEN TC72 WG23 is 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) and work nearly finished the annexes. Once these have been reviewed, the draft will be checked by WG23 and then clause 5 (tests) will be drafted.

If the 'logjam' solution is adopted, it will be necessary to change the format of the standard again. However, this will be worthwhile as the commission is unlikely to accept the current draft's format.

## 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.

## 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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