

REPRODUCED SOUND 2018

PUTTING SOUND IN ITS PLACE

27-29 November 2018 – The Bristol Hotel, Princes Street, Bristol



TUESDAY 27 NOVEMBER 2018

7:30-9pm Demonstration & buffet organised and sponsored by d&b audiotechnik



d&b audiotechnik will present their new sound reinforcement concept known as Soundstage. This system consists of a Source Orientated Reinforcement system, an Enhanced Reverberation system and a 360 degree Spatial Audio system. There will be a half hour presentation of Soundstage and the thinking behind it followed by a demonstration of the various elements of the system. Delegates will be able to see the user interface in action, walk the room and compare the system with a traditional stereo (or dual mono) system.

WEDNESDAY 28 NOVEMBER 2018

08.00 Registration and refreshments

09.15 Conference Opening and Welcome – Keith Holland, EAG Chair

LOUDSPEAKERS 1 – Chair: Glenn Leembruggen

09.30 Improving distortion and intelligibility in sound reinforcement with wide bandwidth dedicated midrange loudspeakers
James Hipperson, Funktion One Research

10.00 Superior HI FI sound
Ted Fletcher, Daniel Fletcher, Orbitsound

10.30 Refreshments

OBJECT-BASED AUDIO – Chair: Paul Malpas

11.00 Multi-zone personalisation for hard of hearing listeners using object-based audio
Marcos F Simon Galvez, University of Southampton, Lauren Ward, Ben Shirley, University of Salford

11.30 Object-based audio for live sports
Robert Oldfield, Ben Shirley, Salsa Sound

12.00 University of Salford Media Accessibility and Hearing Impairment Database
Lauren A Ward, Ben Shirley, William J Davies, University of Salford

12.30 Improvements in perceived intelligibility from source orientated sound reinforcement systems
Adam Hockley, d&b audiotechnik

13.00 Lunch

14.30 Peter Barnett Memorial Award 2018
John Vanderkooy, University of Waterloo, Canada

15.30 Refreshments

MODELLING – Chair: Bob Walker

16.00 An ideal workflow for electroacoustic modelling
Paul Malpas, Ramboll

16.30 Creating an acoustic computer model with EASE 5 tools

Wolfgang Ahnert, Stefan Feistel, AFMG Technologies

17.00 Investigation into the relationship between standing audience density and absorption

Ross Hammond, Adam Hill, University of Derby, Peter Mapp, Peter Mapp Associates

17.30 Modelling horn radiation using wave envelope elements

Patrick Macey, PACSYS

18.00 EAG AGM

19.00 Conference Reception & Dinner on board SS Great Britain

21.15 Recording in the 1970s – a view into a different world?

Philip Newell, Consultant

22.15 CLOSE

THURSDAY 29 NOVEMBER 2018

08.00 Registration and refreshments

09.00 Tyndall Medal Award 2018: Loudspeaker arrays for audio reproduction

Filippo Fazi, University of Southampton

10.00 Refreshments

ROOM ACOUSTICS AND MEASUREMENT – Chair: Mark Bailey

10.30 Guitar soundboard measurements for repeatable acoustic performance manufacturing

Ludovico Ausiello, Solent University

11.00 A new way to portray the acoustics of a fine venue to the layman

Tom Taylor, John Taylor, d&tb audiotechnik

LOUDSPEAKERS 2 – Chair: Adam Hill

11.45 The 'Bass Transmission Index': a new concept for evaluating loudspeaker performance

Lara Harris, University of Southampton, Philip Newell, Consultant, Keith Holland, University of Southampton

12.15 Keeping bass in its place – An evaluation of the practicalities and outcomes of different methods for controlling low frequency sound.

Mark Bailey, QSC

13.00 Lunch

INTELLIGIBILITY AND SOUND REINFORCEMENT – Chair: Robin Cross

14.15 Getting to the right place: Life safety standards and the speech transmission index as a driver of effective interdisciplinary design

Paul Malpas, Ramboll

14.45 A first principles method to rapidly optimise the acoustic gain of a sound system with multiple live microphones

Glenn Leembruggen, Acoustics Directions, David Gilfillan, Gilfillan Soundworks

15.15 Live sound loudspeaker array optimization for consistent directional coverage with diffuse radiation characteristics

Adam Hill, University of Derby, Malcolm Hawksford, University of Essex

15.45 Refreshments

SIGNAL PROCESSING – Chair: Keith Holland

16.15 Modern sampling: Is Shannon ready for the scrap heap?

Jamie Angus, Salford University

16.45 Dynamic virtual acoustic techniques for improved transaural reproduction

Loseb Laghidze, Marcos Simon, Andreas Franck, Giacomo Constantini, Filippo Fazi, University of Southampton

17.15 Walk-through auralization framework for virtual reality sceneries powered by game engine architectures

Daniel Castro, Wood & Grieve Engineers

17.45 Presentation by Charcoal Blue

18.45 Close