

# REPRODUCED SOUND 2016

## SOUND WITH PICTURES

Time is of the essence

15-17 November 2016, Holiday Inn, Southampton



## TUESDAY 15 NOVEMBER 2015

17:00 Registration

18:30 Workshop:  
Object Based Audio

*Filippo Fazi, ISVR, University of Southampton*

## WEDNESDAY 16 NOVEMBER

08:00 Registration

09:15 Welcome

*Keith Holland, EAG Chair*

09:30 Peter Barnett Memorial Award 2016:  
Developments in wide band transducers  
and transducer arrays with single source  
characteristics

*Mark Dodd, GP Acoustics (UK)*

10:30 Refreshments

### SESSION 1 - PA SYSTEMS: MANAGEMENT AND DESIGN

11:00 Ultrasonic surveillance monitoring of PA  
systems - a safety feature or audible hazard?

*Peter Mapp - Peter Mapp Associates*

11:30 Stadium sound systems and FIFA regulations

*Wolfgang Ahnert, ADA Acoustics and Media Consultants, Germany*

12:00 Specifying performance targets of Acoustic  
Enhancements Systems

*Ron Bakker, Yamaha Commercial Audio Systems Europe, Germany*

12:30 Lunch

### SESSION 2 - AURALISATION AND 3D AUDIO

14:00 Object based spatial and audio technologies  
for live and entertainment

*Wil Stam, Vanmunster BV/Astro Spatial Audio, The Netherlands*

## WEDNESDAY 16 NOVEMBER

14:30 Room acoustics and virtual reality: an  
implementation of auralisation and 360  
degree image techniques to create virtual  
representations of spaces

*Alexander Vilkaitis, Mark Dring, Charles Middlicott, Bruce Wiggins,  
Adam J. Hill, University of Derby*

15:00 Multiple listening position evaluation of  
2-channel and 3-channel OPSODIS with  
applications to virtual rendering of  
multi-channel surround sound

*Dylan G. Morgan, Takashi Takeuchi, Keith Holland, ISVR,  
University of Southampton*

15:30 Auditory height perception in cross-  
talk cancellation using low order HRTF  
approximation

*Gavin Kearney, University of York*

16:00 Refreshments

### SESSION 3 - INTELLIGIBILITY

16:30 Investigations into the impact on STI of  
changes to the specified male speech  
spectrum

*Glenn Leembruggen, Jan Verhave, Peter Mapp, Stefan Feistal,  
Ludger Holzem, Hiroshi Sato, Thomas Steinbrecher, Sander van  
Wijngaarden, John Woodgate, STI Maintenance Team*

17:00 Turning up the background noise: the effects  
of salient non-speech audio elements on  
dialogue intelligibility in complex acoustic  
scenes

*Lauren Ward, Ben Shirley, William J Davies, University of Salford*

17:30 Measuring the speech transmission index of  
systems featuring digital voice coding

*Jan A. Verhave, Margriet Vlot, Sander J. van Wijngaarden,  
Embedded Acoustics, The Netherlands*

18:00 EAG AGM

19:00 Conference Reception

19:30 Conference Dinner

## THURSDAY 17 NOVEMBER

08:00 Registration

### SESSION 4 - CINEMA/TV SOUND: AUDIO QUALITY

09:00 Cinema sound and the loudness issue: its origins and implications

*Philip Newell, Acoustics Consultant, Spain Julius Newell, Electroacoustics Engineer, Portugal, Branko Neskov, Loudness Films, Portugal, Keith Holland, ISVR, University of Southampton, UK*

09:30 Cinema sound

*Juan Battaner Moro, Keith Holland, ISVR, University of Southampton*

10:00 Intelligibility of cinema and TV sound

*Peter Mapp - Peter Mapp Associates*

10:30 Improved sound for domestic TV

*Ted Fletcher, Orbitsound*

11:00 Refreshments

### SESSION 5 - MEASUREMENT

11:30 Designing an acoustic source of the Stipa Signal: how to build a good talkbox

*Sander J. Van Wijngaarden, Jan A. Verhave, Embedded Acoustics, The Netherlands*

12:00 Distributed optical fibre acoustic sensors; future applications in audio and acoustics engineering

*Piotr Golacki, Keith Holland, ISVR, University of Southampton*

12:30 Lunch

### SESSION 6 - CINEMA/TV SOUND: ARTISTIC CONCEPTS

13:30 Performance change in vocalists with variation in headphone foldback and reverberation levels

*Chris Barlow, Benjamin Ford, Southampton Solent University, Helena Daffern, University of York*

14:00 Enhancing audio description: sound design, spatialisation and accessibility in film and television

*Mariana Lopez, Anglia Ruskin University, Gavin Kearney, University of York, Krisztián Hofstädter, Anglia Ruskin University*

14:30 Listener adaptive binaural reproduction with loudspeaker arrays

*Marcos F Simón Gálvez, Filippo Maria Fazi, ISVR, University of Southampton*

15:00 Refreshments

### SESSION 7 - PA SYSTEMS: LOUDSPEAKERS AND OTHER HARDWARE

15:30 The effect of performance stages on subwoofer polar and frequency responses

*Adam J. Hill, Joe Paul, University of Derby*

16:00 Line array modelling with BEM

*Patrick Macey, PAFEC*

### SESSION 8 - TRANSDUCERS AND AMPLIFIERS

16:30 Who needs class D? How to make ultra-efficient linear amplifiers. Matching the amplifier to the audio for highly efficient amplifiers

*Jamie Angus, University of Salford*

17:00 Room correction for for object-based audio

*Dylan Menzies, Filippo Maria Fazi, ISVR, University of Southampton*

17:30 Hearing aids for an acoustician

*John O'Keefe, O'Keefe Acoustics, Canada*

18:00 Conference Close

#### POSTERS:

Philharmonie de Paris: sound system integration and calibration

*Julien Laval, L-Acoustics, France*

#### IOA DIPLOMA AWARD:

Railway Noise – comparison of predicted and measured noise levels and its subsequent effect on health

*Sarah Wakely, Basildon Borough Council*

THURSDAY 17 NOVEMBER

18:30 Evening Visit to Southampton Solent University

*Details will be available on the IOA website*



FRIDAY 18 NOVEMBER

09:30 Visit to ISVR, University of Southampton

*Details will be available on the IOA website*

