

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: AUDIO SYSTEM 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

Bjorn van Munster, 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, Southampton Solent University, 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, PACSYS

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 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

