

Reproduced Sound 2014

Proceedings of the Institute of Acoustics Volume 36 Part 2

**Birmingham, United Kingdom
14-15 October 2014**

ISBN: 978-1-63439-521-4

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2014) by the Institute of Acoustics
All rights reserved.

Printed by Curran Associates, Inc. (2014)

For permission requests, please contact the Institute of Acoustics
at the address below.

Institute of Acoustics
77A St. Peter's Street
St. Albans Hertfordshire
AL1 3BN
United Kingdom

Phone: +44(0) 1727 848195
Fax: +44(0) 1727 850553

ioa@ioa.org.uk

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

PAPERS

Developments in Electroacoustics Over the Past 40 Years.....	N/A
<i>Peter Mapp</i>	
Efficient Compact Representation of Head Related Transfer Functions.....	1
<i>Joe Sinker, Jamie Angus</i>	
The Psychoacoustic Effects of Stimuli Plausibility on Headphone Externalisation	11
<i>Bruno Fazenda, Jamie Newton</i>	
Short Time Acoustical Measurement Using Maximum Entropy.....	N/A
<i>Jamie Angus</i>	
Modelling Loudspeaker Cabinet Diffraction.....	N/A
<i>George Perkins</i>	
The Use of Acoustic Models As Input to Creative Sound Design in Theatre and Radio Drama.....	N/A
<i>Paul Malpas</i>	
Subjective Evaluation of an Emerging Theory of Low-frequency Sound-source Localisation in Closed Acoustic Spaces	18
<i>Adam Hill, Malcolm Hawksford</i>	
Why is Good Speech Intelligibility in Mosques a Challenge?	33
<i>Wolfgang Ahnert, Emad El-Saghir</i>	
The Acoustic and Intelligibility Performance of Assisted Listening Systems	45
<i>Peter Mapp</i>	
The History of Active Acoustic Enhancement Systems	56
<i>Stuart Gillan, R. Bakker</i>	
Circular Loudspeaker Array for Personalized Audio	N/A
<i>Mincheol Shin, Ferdinando Olivieri, Filippo Fazi, Philip Nelson, Simone Fontana, Lang Yue</i>	
Numerical Comparison of Sound Field Control Strategies Under Free-field Conditions for Given Performance Constraints	66
<i>Ferdinando Olivieri, Filippo Fazi, Mincheol Shin, Philip Nelson, Simone Fontana, Lang Yue</i>	
How to See Sound Waves in Motion.....	N/A
<i>Richard Jackett</i>	
Design and Tuning of Active Acoustic Enhancement Systems.....	76
<i>Ron Bakker</i>	
Crowd Enhancement in Stadiums Using Electro-acoustic Enhancement Systems	N/A
<i>Matthias Winther</i>	
Profiling the Distortion Characteristics of Commercial Music Using Amplitude Distribution Statistics	83
<i>Alex Wilson, Bruno Fazenda</i>	
How Important is Audio Quality to Usage of Online Recordings?.....	N/A
<i>Trevor Cox, Bruno Fazenda, Iain Jackson, Paul Kendrick, Francis Li</i>	
Applications of the Fast Multipole Boundary Element Method to the Audio Industry	N/A
<i>Patrick Macey</i>	
Intelligibility Enhancement of Speech in Noise	96
<i>Cassia Valentini-Botinhao, Junichi Yamagishi, Simon King</i>	
Room Response Estimation Using Microphone Averaging.....	N/A
<i>Philip Newell, Keith Holland</i>	
The Audibility of Comb-filtering Due to Perforated Cinema Screens	104
<i>David Elliott, Keith Holland, Philip Newell</i>	
High-Quality Audio Systems.....	112
<i>Malcolm Hawksford</i>	

POSTERS

Pre-microphone Acoustic Filters with Gain	756
<i>Graham Bank, Peter Cochrane</i>	
Res (Resonant String Shell), the Design of an Acoustic Shell for Outdoor Chamber Music Concerts.....	N/A
<i>Serafina Di Rosario, Buro Happold</i>	

An Investigation Into the Maximum Permissible Ambient Sound Levels in 1/3 Octave Bands Between 250Hz-8kHz for an Audiometric Test	N/A
<i>Lee Davison, Lawrence Yule</i>	
Investigating Headphone Driver Modelling Using the Finite/boundary Element Method.....	763
<i>Rowan Williams, Kelvin Griffiths</i>	
Tissue-conducted Spatial Sound Fields.....	778
<i>Ian McKenzie, Peter Lennox, Bruce Wiggins</i>	
Setting the Tone: Considerations for Educating the Next Generations of Sound Reproduction Professionals.....	790
<i>Benjamin Mosley, Paul Thompson</i>	
Auditory Adaptation to Spectra in Non-speech Perception	N/A
<i>Cleo Pike</i>	
Author Index	