



8th INTERNATIONAL CONFERENCE ON AUDITORIUM ACOUSTICS

Auditorium Acoustics, Dublin 2011

20 -22 May 2011 The Dublin Convention Centre



Auditorium Acoustics 2011

FRIDAY 20 MAY 2011

08:30	Registration	13	13:10	The relationship between audience engagement and the ability to perceive pitch, timbre, azimuth and envelopment of multiple sources
09:00	L'Aquila: a post-earthquake cardboard concert hall			
				David Griesinger, David Griesinger Acoustics, USA
	Daniel Commins, Commins Acoustics Workshop, France	13	13:30	Subjective acoustic evaluations in live jazz concerts; employing subject groups of different cultural backgrounds
09:20	The acoustic design of Wexford Opera House			
	Jeremy Newton, Arup Acoustics, UK			Alexandra Sotiropoulou, John Karayannis, John Tzouvadakis, University of Athens, Greece, Anastasia Savopoulou, University College London, UK
09:40	Acoustic 1/10th model test on concert hall in Taiwan			
	Albert Xu & Nicholas Gallaud, Xu-Acoustique, France	13	13:50	More combs
10:00	Uncertainties of room acoustic measurements –			Tor Halmrast, Statsbygg, Norway
	Ingo Witew & Michael Vorländer, RWTH Aachen, Germany	14	14:10	The effect of scattering surfaces in rectangular concert halls: a scale model analysis
10:20	Coffee			Evan Green, Soundscape design, Mike Barron, University of Bath, David Thompson, ISVR, University of Southampton, UK
10:50	Towards the understanding of acoustics of auditoria in true in-use conditions- a review and outlook of techniques for occupied acoustic measurements	14	:30	Introduction to Posters
		15	:10	Tea & Posters
		16	:00	Perception of scattered sounds in concert halls
	Francis F Li, University of Salford, UK			Jin Y Jeon, Yong H Kim, Hyo J Yoo, Hanyang University, Korea
11:10	Small changes in opera house – results in the	1.0	00	
-	acoustical parameters	16	16:20	Diffusion in concert halls analysed as a function of time during the decay process
	Jose Augusto Nepomuceno, Acustica & Sonica, Brasil			Claus Lynge Christensen & Jens Holger Rindel, Odeon A/S, Denmark
11:30	Concert hall acoustics assessment with sensory evaluation – tools and practices	16	16:40	Dublin National Conference Centre
	Tapio Lokki, Aalto University, Finland & Nick Zacharov, Senselab, Denmark			Richard Muir, Sandy Brown Associates, UK
11:50	The acoustic requirements of the Irish Chamber Orchestra	17	:00	Visit the Auditorium followed by welcome drinks on the 5th Floor
	Stephen Smyth & Chris Dilworth, AWN Consulting, UK			



12:10

Lunch





SATURDAY 21 MAY 2011

09:00

The acoustic design of Grand Canal Theatre, Dublin

Tour and Talk - Jeremy Newton, Arun Acoustics, LIK



10:30 Coffee

11:00 Guangzhou Opera House

Peter Exton, Marshall Day, Australia

11:20 Acoustic control in octagonal geometry: a case

Dario D'Orazio, Massimo Garai, Bologna University, Italy

study of the "Torri dell'Acqua" auditorium

11:40

An acoustics miracle of Tonhalle St Gallen has been produced, but the criterion of Gade on stage has failed before and after the refurbishment of the hall

Higini Arau, Arau Acustica, Spain

12:00

Rayleigh Medal lecture Using room acoustics measures to understand a large room and its complex sound reinforcement system

John Bradley, NRC, Ottawa, Canada

13:00

Lunch

14:00 Non-linear decays in simple spaces and their possible exploitation

Mike Barron, Fleming & Barron, UK

14:20

Investigations on the development of the frequency response with time in concert halls

Jukka Patynen, Sakari Tervo, Tapio Lokki, Aalto University, Finland

14:40

Multi-slope room impulse responses: an automated analysis method

Paul Luizard & Brian Katz. LIMSI-CNRS. France

15:00

15:30

Tea

The benefit of a CARMEN electroacoustic system

Isabelle Schmich, Christophe Rougier, CSTB, France

Et Helen Butcher, Arup Acoustics, UK

in the Aylesbury theatre

15:50 Acoustic enhancement systems for classical concerts – examples and experiences

Gunter Engel, Mueller BBM, Germany

16:10

The Penderecki concert hall in Radom, Poland: acoustic design and performance

Andrzej Klosak, Kracow University of Technology, Poland & Anders Christian Gade, Gade & Mortensen Akustik, Denmark

16:30

Wagner and the cinema: a cognitive approach to the acoustics of the Bayreuth Festival Theatre

Jean-Dominique Polack & Michel Retbi, Université Pierre at Marie Curie, France

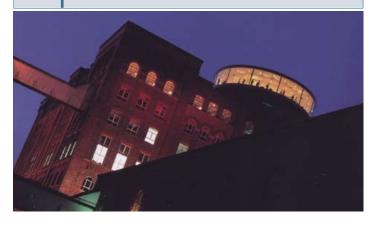
16:50

Close

19:00

Reception and Conference Dinner – The Guinness Storehouse

Located in the heart of the St James's Gate Brewery, Guinness Storehouse is the home of Guinness, where you will discover what goes into the making of each pint. The building is in the shape of a giant pint of Guinness, that if full would hold 14.3 million pints! At the head of the pint is the Gravity bar where you can enjoy the 360° view of Dublin before we return to a lower level for dinner. Sláinte!



Auditorium Acoustics 2011

SUNDAY 22 MAY 2011

09:00

The acoustic design of the O2

Tour and Talk, Daryl Prasad, Marshall Day, UK



10:30 Coffee

11:00 Queen Elizabeth Theatre, Vancouver: acoustic design responding to financial realities

John O'Keefe & Daniel Ruvalcaba, Aercoustics, Canada

11:20 University of Exeter "The Forum" – use of auralisation techniques to influence the design, a case study

Serafina Di Rosario, Alistair Meachin, Buro Happold, UK

11:40 Non-linear 3D auralisation in the acoustic design of opera houses

Lamberto Tronchin, University of Bologna, Italy

12:00 The New York State Theatre renovation

Eckard Mommertz, Gunter Engel, Kh Mueller, Mueller-BBM, Germany

12:20 Li

Lunch and Close

POSTERS

Real-time walkthrough auralisation of the acoustics of Christ Church Cathedral, Dublin

Gavin Kearney, Marcin Gorzel, Fiona Smyth, Frank Boland, Henry Rice, University of Dublin. Donal Lennon. University Colleae Dublin. Ireland

Impulse response measurement with chirp-lets and masked noise stimuli

Massimo Serafini & Francis F Li, University of Salford, UK

Acoustic design of the Royal Welsh College of Music and Drama, Cardiff

Ned Crowe & Ian Knowles, Arup Acoustics, UK

Integrated room acoustics and electroacoustic design – the concert venue at Rockheim, Norway

Bård Støfingsdal, COWI, Norway

ITDG calculation with a non linear iterative algorithm

Simona De Cesaris, Dario D'Orazio, Massimo Gari, Boloana University, Italy

Concert Studio for the BBC Philharmonic Orchestra at MediaCityUK, Salford

Mark Howarth, Sandy Brown Associates, UK

Acoustic design of the tower theatre at the Irish World Academy of Music and Dance

Alistair Meachin, Serafina Di Rosario, Buro Happold, UK

In-situ measurements of diffuse reflections from lateral walls in concert halls

Yong H Kim, Hyung S Jang, Jin Y Jeon, Hanyang University, Seoul, Korea Christophe Rougier, Isabelle Schmich, CSTB, France

A ceiling case study inspired by an historical scale model

Brian Katz, Olivier Delaozière, Paul Luizard, LIMSI-CNRS, France

On the struggle to find a set of room acoustical parameters that explains and predicts subjective ranking of concert halls

Magne Skalevik, Brekke & Strand Akustikk, Norway

Acoustic evaluation of typical errors in the design of modern lecture theatres

Alexandra Sotiropoulou, George Poulakos, George Cambourakis University of Athens, Greece

Acoustic study of Madrid Auditorio Nacional de Música

Gonzalo Vallejo Ortega & José Ignacio Sánchez Rivera, Valladolid University, Soain

From architectural design to acoustical remedies

Hassan Azad, University of Tehran, Iran

