

ACOUSTICS 2021

HYBRID CONFERENCE
11-12 October

MONDAY 11 OCTOBER 2021

0830 Registration and refreshments

0900 Welcome

BUILDING ACOUSTICS

Chair: James Healey

0915 How will ISO 22955 affect designs for open plan offices?

Jack Harvie-Clark, Apex Acoustics; Ethan Boudeau, International WELL Building Institute, USA; Patrick Chevret, INRS, France

0945 Exploring the use of soundscaping and speech masking in post-Covid offices

Andrew Parkin, Cundall

1015 The values of control for acoustics in open plan offices: a case study

Jack Harvie-Clark, Richard Hinton, Apex Acoustics

1045 RT control using sustainable materials

Nicholas Long, Lustre Consulting

1115 Refreshments

1130 Managing noise and ventilation with acoustic metamaterials

Gianluca Memoli, Lorenzo Bonoldi, University of Sussex; Chris Wood, Ben Pearce, Emma Greenland, Anderson Acoustics

1200 Designing specifications for plant vibration isolation on suspended slabs

Nikhilesh Patil, Martin McNulty, Hoare Lea

1230 Low frequency sound insulation

Avtandil Avtva Kraveishvili, Akustiko, Georgia

1300 Noisy neighbours: towards a hybrid prediction and testing process for sound insulation partitions

Gabriel Whittle, Andrew Elliott, Joshua Meggitt, Daniel Wong-McSweeney, iKoustic Soundproofing

1330 Lunch Break

1400 Rayleigh Medal 2021:
News from room acoustics

Michael Vorländer, RWTH Aachen University, Germany

Free of charge to attend, it will have separate Zoom joining details but can still be booked on the IOA website.

1500 Refreshments

PHYSICAL ACOUSTICS

Chair: Daniel Elford

1515 Low frequency broadband vibration dampers from nonlinear structures with metamaterial properties

Sifa Gul Demiryurek, Anton Kryinkin, University of Sheffield

1545 A time domain version of the transfer matrix method

Kim Steele, Jonathan Hargreaves, University of Salford

1615 Metadiffusers in auditoria: 3D FDTD modelling of ultra-thin sound diffusers using equivalent RLC circuits

Eric Ballesterio, B Hamilton, London South Bank University; N Jimenez, University of Edinburgh; J P Groby, V Romero-Garcia, University of Valencia, Spain; H Aygun, S Dance, London South Bank University

1645 Close

1730 Early Careers Group and UKAN+

"Effective collaboration between academia and industry" and "Future Research and Innovation"

Panel discussion

Presentations by researchers, engineers and consultants on their experiences of effective collaboration between industry and academia, followed by a panel discussion on collaboration and on areas of future research in acoustics.

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TUESDAY 12 OCTOBER 2021

0830 Registration and Refreshments

0900 Welcome

ENVIRONMENTAL

Chair: Steve Mitchell

0915 Predicting and assessing airborne noise from offshore piling of wind turbine foundations

Charlotte Birch, RPS Group, Simon Stephenson, Seiche

0945 Empirical relational between L_{night} and L_{max}

Nick Conlan, Weigang Wei, Jack Harvie Clark, Apex Acoustics

1015 Max noise levels from hockey pitches

Weigang Wei, Jack Harvie-Clark, Apex Acoustics

1045 Road Traffic Noise Monitoring in 2020

Matthew Muirhead, Aecom

1115 Refreshments

1130 Effect of audio-visual interaction on subjective assessment of industrial soundscapes

Julija Smyrnova, Gillian Brown, Environmental Agency

1200 Sound radiation from composite plates

Haydar Aygun, London South Bank University

1230 ProPG and AVOG

Colin Cobbing, Pinnacle Acoustics, Dani Fiumicelli, Vanguardia

1300 Lunch Break

MUSICAL & SPEECH AND HEARING

Chair: Stephen Dance

1330 What's the difference? Predicting and characterising timbral distinctions between families of brass instruments

Murray Campbell, University of Edinburgh, Joel Gilbert, CNRS/University of Le Mans, Arnold Myers, Royal Conservatoire of Scotland

1400 Music and architecture through the ages

Celia Diaz Brito, Ben Burgess, Daryl Prasad, Buro Happold

1430 Sound exposure of St Paul's Cathedral Choristers

Stephen Dance, Georgia Zepidou, London South Bank University

1500 Sound pressure levels in close proximity to sound-reinforcement loudspeakers

Ian M Wiggins, University of Nottingham, Ken Liston, Nottingham Trent University

1530 Refreshments

NOISE AND VIBRATION ENGINEERING

Chair: Jon Richard

1545 Optimisation of railway noise barrier design using finite element and boundary element modelling methods

Cesar Bustos, Vincent Jurdic, Calum Sharp, David Hiller, Arup Acoustics

1615 Quantitative method of isolating sensitive equipment using air

Adam Fox, Mason UK

1645 Specification and design of silencers for control of low frequency noise from an environmental test facility

Malcolm Smith, Erika Quaranta, ISVR Consulting, University of Southampton

1715 Close



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