

**MONDAY 5 OCTOBER 2020**

**12:45 Welcome, Stephen Turner, IOA President**

**ENVIRONMENTAL NOISE – ROOM 1**

**13:00 Chair: Steve Mitchell & David Waddington**

13:05 Implementing the Agent of Change principle in planning decisions  
Toby Lewis, WSP

13:35 Noise policy developments in Wales  
Martin McVay & Joanne Smith, Welsh Government

14:05 Synergies and conflicts between air quality and noise  
Nigel Jones, Extrium; Martin McVay, Welsh Government; Richard Maggs, Bureau Veritas; Simon Shilton, Acustica; Steve Moorecroft, AQ Consultants

**14:35 Break**

15:15 Application of psychoacoustic metrics for evaluation of impact and audibility of industrial sounds  
Julija Smyrnova, The Environment Agency

15:15 Rethinking BS4142  
William J Davies, David C Waddington, University of Salford

15:45 A review of the implications of local planning authorities' noise guidance in Scotland  
Ashley Leiper & Craig Cloy, EnviroCentre

16:15 The impact of Brexit  
Andrew Silverman, Consultant

16:45 Break and Posters

17:00 Virtual Happy Hour

18:00 Close

**MONDAY 5 OCTOBER 2020**

**NOISE AND VIBRATION ENGINEERING – ROOM 2**

**13:00 Chair: Malcolm Smith & Emma Shanks**

13:05 A review of noise exposure in UK call centres  
Mat Tuora, Ian Rees, Adrian James Acoustics

13:35 Sound from domestic air source heat pumps: a case study  
Matt Torjussen, noise.co.uk

14:05 Focusing of ground vibrations generated by trans-Rayleigh trains travelling with acceleration  
Victor V Krylov, Loughborough University

**14:35 Break**

14:45 Attenuating lateral vibration sources  
Adam Fox, Mason UK

15:15 Sound Distribution for safe-listening venues: a review  
Ian M Wiggins, University of Nottingham; Ken Liston, Nottingham Trent University

15:45 Construction: control best practice for today's noise and HAV exposures  
Emma Shanks, HSE

16:15 Regulatory expectations verse noise and vibration realities  
Chris Steel, HSE

16:45 Break and Posters

17:00 Virtual Happy Hour

18:00 Close

**TUESDAY 6 OCTOBER 2020**

**BUILDINGS ACOUSTICS – ROOM 1**

**13:00 Chair: Roger Kelly & James Healey**

13:03 Prediction of rain noise in buildings using empirical models for artificial and natural rainfall  
Carl Hopkins, Yicheng Yu, University of Liverpool

13:35 My thumb's on the bicycle pump – a case study and proposed method for assessing the stiffness of trapped air in cavities and the effect of designing high performance sound insulation  
Ben Burgess, Buro Happold

14:05 The accuracy of reverberation time prediction for general teaching space: comparison between analytical formulae and in-situ measurements  
Ilaria Fichera, Cundall

**14:35 Break**

14:45 Sound reduction performance of novel window designs for the control of internal noise levels and passive ventilation  
David Vinci, David Waddington, University of Salford

15:15 Ventilative cooling in noisy environments: practical options for the UK  
Nick Conlan, Jack Harvie-Clark, Apex Acoustics

15:45 The AVO Guide – worked examples  
Anthony Chilton, Max Fordham; David Trew, Bickerdike Allen; Nick Conlan, Jack Harvie-Clark, Apex Acoustics

16:15 Acoustic metamaterials: noise and overheating in residential buildings  
Matthew Brown, Andrew Bullmore, Hoare Lea

16:45 Break and Posters

17:00 Virtual Happy Hour

18:00 Close

**TUESDAY 6 OCTOBER 2020**

**PHYSICAL ACOUSTICS GROUP – ROOM 2**

**13:00 Chair: Daniel Elford & Keith Attenborough**

13:05 CLT and the emotive and physical load it carries: can we help it out  
James Bligh, Pliteq UK

13:35 A study of the damaging effects of acoustic shock waves from a “controlled” explosion on nearby buildings  
Gordon Hunter, Alok Bhattacharyya, Kingston University

14:05 A review of acoustic space filling curve metamaterials for jet engine inlets  
Jennifer Glover, Daniel O'Boy, Loughborough University

**14:35 Break**

14:45 Modelling of nonlinear dampers under low-amplitude vibration  
Sifa Gul Demiryurek, Anton Krynkin, Jem Rongong, University of Sheffield

15:15 FA2020/606 Approximation of impedance in serial arrays of coupled Helmholtz resonators  
Alex Dell, Anton Krynkin, University of Sheffield

15:45 An acoustic metamaterial impedance matching layer for air coupled piezoelectric transducers: an analytical study  
Paul Daly, James F C Windmill, Joseph Jackson, University of Strathclyde

16:15 Practical applications for low frequency noise problems  
Karol Bugaj, Daniel P Elford, L Chalmers, R D Watson, Sonobex

16:45 Break and Posters

17:00 Virtual Happy Hour

18:00 Close

**THURSDAY 8 OCTOBER 2020**

**SOUNDSCAPES – ROOM 1**

**13:00 Chair: Grant Waters & Peter Rogers**

13:05 Soundscaping and Environmental Impact Assessment  
Dani Fiumicelli, Temple Group

13:35 An exploratory review of soundscape descriptor modelling for soundscape assessment and design practice  
Yiyang Hao, Rianna Spencer, Paull Johnson, Richard Cope, Bureau Veritas

14:05 Noise mapping and soundscapes  
Peter Rogers, Sustainable Acoustics

**14:35 Break**

14:45 Tools for data collection in Soundscape applications  
Frederik Gast, Andreas Herweg, HEAD acoustics.

15:15 The APEL method: acoustic perception Evaluation of buildings using a soundscape approach  
Jack Harvie-Clark, Rebecca Romeo Pitone, Apex Acoustics

15:45 Soundwalks in industrial areas  
Julija Smyrnova, Environment Agency

16:15 The Soundscape Indices (SSID) Protocol – A method for practical soundscape assessments in the city  
Andrew Mitchell, Tin Oberman, Francesco Aletta, Matteo Lionello, Jian Kang, UCL

16:45 Break

17:00 Virtual Happy Hour

18:00 Close

**THURSDAY 8 OCTOBER 2020**

**POSTERS Q&A – ROOM 2 – Chair: Martin Lester**

13:00 Evaluation of the effectiveness of tool timers for estimation of daily exposure time to hand-arm vibration  
Antonia Hawker, Chris Steel, Health & Safety Executive

Repeatability of the balloon pop sound source in a room  
Luis Gomez-Agustina, Pedro Vazquez-Barrera, London South Bank University

**14:35 Break**

**EARLY CAREERS GROUP – ROOM 2**

**14:40 Chair: Sam Jackson**

14:45 What does the consultancy industry need from academia?  
Ashley Leiper, EnviroCentre

15:15 What does the R&D Industry need from academia?  
Andrew Mathieson, Thales

15:45 Career routes from academia into consultancy  
Joseph Allen, RBA Acoustics

16:15 Career routes from academia into consultancy  
Nikhil Banda,

16:45 Break

17:00 Virtual happy Hour

18:00 Close

**FRIDAY 9 OCTOBER 2020**

**SPEECH, HEARING AND BIOACOUSTICS - ROOM 1**

**13:00 Chair: Gordon Hunter & Haydar Aygun**

13:05 Acoustic intervention in a dementia clinic in Denmark  
Andrea Harman, Saint-Gobain Ecophon

13:35 Acoustic characterisation of inhalation and exhalation  
Hector E Romero, Ning Ma, Guy J Brown, University of Sheffield

14:05 Sound exposure of staff at the Royal Academy of Music  
Stephen Dance, Georgia Zepidou, Doug Shearer, London South Bank University

**14:35 Break**

14:45 Experimental characterization of the acoustical parameters of two lecture rooms  
Sabu Mustafa, PPS Consultancy, Dubai, UAE

15:15 Can statistical language models be used to distinguish between different genres of news?  
Gordon Hunter & Sabine Dreibe, Kingston University

15:45 Tagging rhythmicity in elicited normal read and melodic chanting of religious text and poem  
Bader Matar F Alotaibi, Roger K Moore, University of Sheffield

16:15 Development of auscultation smartphone app: an investigation into the feasibility of replicating the mechanical auscultation procedure on a smartphone app  
Nicholas Brown, Haydar Aygun, London South Bank University

16:45 Break

17:00 Virtual Happy Hour

18:00 Close

**FRIDAY 9 OCTOBER 2020**

**FUTURE OF ROAD AND RAIL MODELLING – ROOM 2**

**13:00 Chair: Hilary Notley & Matthew Muirhead**

13:05. Development of traffic noise prediction model for major arterial roads of tier-II city of India (Surat) using artificial neural network  
Ramesh B. Ranpise, B.N. Tandel, Vivek A Singh, National Institute of Technology, India.

13:35 Design manuals for roads and bridges: an introduction to LA111 noise and vibration  
Ian Holmes, Highways England

14:05 Noise modelling – case for change  
Simon Shilton, Acustica

**14:35 Break**

14:45 Data requirements and opportunities  
Nigel Jones, Extrium

15:15 Rail noise modelling – current and future needs  
Stephen Turner, ST Acoustics

15:45 Road traffic noise modelling – current and future needs  
Matthew Muirhead, AECOM

16:15 Quality framework, propagation and future aspirations  
Simon Shilton, Acustica

16:45 Break and Posters

17:00 Virtual Happy Hour

18:00 Close