

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

14:45 Application of psychoacoustic metrics for the assessment of tonality 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

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, Dan Emery, Mason UK

15:15 Sound Distribution for safe-listening in entertainment venues a review of existing policies and regulations
Ken Liston, Nottingham Trent University; Ian M Wiggins, University of Nottingham

15:45 Construction: best practice for control of 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

13:05 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 is on the bicycle pump – considerations for the venting of air cavities below structurally isolated floating floors
Ben Burgess, M Harrison, Buro Happold

14:05 The accuracy of reverberation time prediction for general teaching spaces
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; M Bacarese-Hamilton, M Atherton, Brunel University; L Chalmers, D Elford, Sonobex

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: Keith Attenborough

13:05 A study of the damaging effects of acoustic shock waves from a “controlled” explosion on nearby buildings
Gordon Hunter, Alok Bhattacharyya, Kingston University

13:35 A review of acoustic space filling curve metamaterials for jet engine inlets
Jennifer Glover, Daniel O’Boy, Loughborough University

14:05 Modelling of nonlinear dampers under low-amplitude vibration
Sifa Gul Demiryurek, Anton Krynkina, Jem Rongong, University of Sheffield

14:35 Break

14:45 Approximation of impedance in serial arrays of coupled Helmholtz resonators
Alex Dell, Anton Krynkina, University of Sheffield

15:15 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

15:45 Practical applications for low frequency noise problems
Karol Bugaj, Daniel P Elford, L Chalmers, R D Wilson, Sonobex

16:15

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 Soundwalks in industrial areas
Julija Smyrnova, Environment Agency

13:35 An exploratory review of soundscape descriptor modelling for soundscape assessment and design practice
Yiyi Hao, Paul 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 Acoustic perception EvALuation of buildings – the APEAL method
Jack Harvie-Clark, Rebecca Romeo Pitone, Apex Acoustics

15:45 Soundscaping and Environmental Impact Assessment
Dani Fiumicelli, Temple Group

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

13:00 POSTERS Q&A – ROOM 2 – Chair: Martin Lester

13:05 Evaluation of the effectiveness of tool timers for estimation of daily exposure time to hand-arm vibration
Antonia Hawker, Chris Steel, Health & Safety Executive

13:15 Repeatability of the balloon pop sound source in a room
Luis Gomez-Agustina, Pedro Vazquez-Barrera, London South Bank University

13:25 Modelling, designing and commissioning offices using ISO3382-3
Ben Southgate, Richard King, Sandy Brown

13:35 Design strategies for linear semi-open plan classrooms: case study on improving the acoustic environment in a modern primary school
Shenzhi Su, CSP Acoustics

13:45 Discussion

14:00 Break

EARLY CAREERS GROUP – ROOM 2

14:35 Chair: Sam Jackson

14:45 What does the consultancy industry need from academia? A soundscape and planning perspective
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, Seiche

16:45 Break 17:00 Virtual Happy Hour

18:00 Early Careers Group Social and Quiz

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 a conservatoire
Stephen Dance, Doug Shearer, London South Bank University; Georgia Zepidou, AECOM

14:35 Break

14:45 Can statistical language models be used to distinguish between different genres of news?
Gordon Hunter & Sabine Dreibe, Kingston University

15:15 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

15:45

16:15

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

13:35 Noise modelling – case for change
Simon Shilton, Acustica

14:05 Data requirements and opportunities
Nigel Jones, Extrium

14:35 Break

14:45 Rail noise modelling – current and future needs
Stephen Turner, ST Acoustics

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

15:45 Quality framework, propagation and future aspirations
Simon Shilton, Acustica

16:15

16:45 Break and Posters

17:00 Virtual Happy Hour

18:00 Close