

# DAY 1 - MONDAY 28<sup>TH</sup> JUNE 2021



**8:15 AM ARRIVAL AND REGISTRATION OPENS**

Coffee and tea

**9:00 AM CONFERENCE OPEN**

Welcome and housekeeping

**9:15 AM KEYNOTE ADDRESS:  
THE SOUND OF A CHANGING WORLD**

Chair: Jon Styles

**9:15 - 10:15**

Chief Environment Court  
Judge David Kirkpatrick

The judicial process and the role of the expert witness

**10:15 AM MORNING TEA & TRADE SHOW**

**10:45 AM TECHNICAL SESSION 1:  
ENVIRONMENTAL NOISE**

Sponsored by GIB

Chair: Jon Styles

**10:45 - 11:05**

Jeremy Trevathan

Improving the sound insulation of dwellings via a District Plan rule

**11:05 - 11:25**

Richard Jackett

The latest in NZ road surface noise research

**11:25 - 11:45**

John Pearse

Development of noise barriers for road, rail and urban environments

**11:45 - 12:05**

William Reeve

Occupant behaviour regarding opening windows and alternative ventilation systems in real use

**12:05 - 12:25**

James Boland

What does quiet mean to you?



**12:30 PM LUNCH & TRADE SHOW**

**1:30 PM KEYNOTE ADDRESS & INVITED PANEL:  
INTERNATIONAL YEAR OF SOUND**

Sponsored by GIB

Chair: Tim Beresford

**1:30 - 1:50**

Marion Burgess

International Year of Sound 2020-2021 - overview

**1:50 - 2:30**

James Whitlock,  
Peter Thorne, Victoria Rastelli  
and Tom Hamill

IYS workshop and panel discussion



**2:30 PM TECHNICAL SESSION 2:  
THE SOUND OF A CHANGING WORLD**

Sponsored by GIB

Chair: Tim Beresford

**2:30 - 2:50**

Matt Pine

The influence of underwater noise from small vessels and what we can now expect

**2:50 - 3:10**

Lindsay Leitch

Developments in the electric aircraft industry and the acoustic implications for New Zealand

**3:10 - 3:30**

Mark Poletti

Development of a dual-beam shotgun microphone for use on unmanned aerial vehicles



**3:30 PM AFTERNOON TEA**

**4:00 PM TECHNICAL SESSION 3:  
INDUSTRIAL NOISE CONTROL,  
CONSTRUCTION NOISE AND VIBRATION**

Sponsored by Sealed Air - Stratocell Whisper

Chair: Mathew Legg

**4:00 - 4:20**

Tim Beresford

Investigations into the accuracy of plant enclosure noise emission prediction methods

**4:20 - 4:40**

Connor Beamish

Managing construction noise and vibration across large-scale urban development

**4:40 - 5:00**

Craig Fitzgerald

Construction noise reform - refocussing on management outcomes over noise limits

**5:00 - 5:20**

Yupei Jian

Fast estimation of band gaps of lattice metamaterial systems



**5:30 PM ASNZ ANNUAL GENERAL MEETING**  
Sponsored by Sealed Air - Stratocell Whisper

The Conference and AGM is held at Five Knots  
The Banquet dinner is held at Okahu

**POST AGM PRE-DINNER DRINKS AND CANAPES**  
Sponsored by Sealed Air - Stratocell Whisper

**7:45 PM BANQUET DINNER**  
Sponsored by GIB  
**Okahu Waterfront Venue**



# DAY 2 - TUESDAY 29<sup>TH</sup> JUNE 2021



**8:00 AM ARRIVAL**  
Coffee and tea

**8:25 AM WELCOME BACK AND HOUSEKEEPING**

**8:30 AM KEYNOTE ADDRESS:**  
**THE SOUND OF A CHANGING WORLD**  
Sponsored by Batten & Cradle  
Chair: James Whitlock

**8:30 - 9:15**

Peter Thorne  
Public health approaches and the global strategy to prevent hearing loss



**9:15 AM TECHNICAL SESSION 4:**  
**IMPACT AND AIRBORNE NOISE**  
Sponsored by Batten & Cradle

**9:15 - 9:35**

**9:35 - 9:55**

**9:55 - 10:15**

**10:15 - 10:35**

Chair: James Whitlock

George Dodd  
Updating the connection between airborne and impact insulation measurements of building partitions

Brendon Shanks  
How carpet can reduce the apparent sound transmission class of walls

Aaron Healy  
Intertenancy noise issues - deconstructing the impact sound insulation performance

Chiaki Fenemore  
Acoustics of cross-laminated timber

## 10:35 AM MORNING TEA & TRADE SHOW



**11:00 AM TECHNICAL SESSION 5:**  
**BUILDING ACOUSTICS, EDUCATION AND VOICE LEVELS**  
Sponsored by Canterbury Acoustic Testing Services

**11:00 - 11:20**

**11:20 - 11:40**

**11:40 - 12:00**

**12:00 - 12:20**

**12:20 - 12:40**

Chair: Michael Kingan

Mike Latimer  
Development of a rainfall test rig

Axel Montes de Oca  
Parametric array loudspeaker- parameters changes based on the modulation technique

James Whitlock  
NZ classrooms have a new acoustic design standard - DQLS v3.0

Luke Hindmarsh and Max Wilson  
Using VR-audio to predict a talker's voice level in noisy rooms

Yulia Yagunova  
Sonic simulation in VR/AR contexts

## 12:45 PM LUNCH & TRADE SHOW



**1:45 PM TECHNICAL SESSION 6:**  
**ARCHITECTURAL AND BUILDING ACOUSTICS**  
Sponsored by T&R Interior Systems

**1:45 - 2:05**

**2:05 - 2:25**

**2:25 - 2:45**

**2:45 - 3:05**

**3:05 - 3:25**

Chair: Tracy Hilliker

Hedda Landreth  
Developing a new generation of acoustic ceiling tile utilising a holistic approach

George Edgar  
Modelling the acoustic behaviour of porous sound-absorbing materials using the Biot theory

Grant Emms  
Predicting the sound transmission loss of finite-sized glazing

Malcolm Dunn  
3D room acoustic measurements with low cost equipment

Ben Lawrence  
Auckland Museum South Atrium refurbishment

## 3:30 PM AFTERNOON TEA



**3:50 PM TECHNICAL SESSION 7:**  
**MEASUREMENT ABOVE US AND MUSIC ALL AROUND US**  
Sponsored by Batten & Cradle

**3:50 - 4:10**

**4:10 - 4:30**

**4:30 - 4:50**

**4:50 - 5:10**

Chair: Michael Kingan

Yan Wu  
An experimental study of a UAV propeller and strut interaction noise

Yusuke Hioka  
Investigating the feasibility of using direct-to-reverberant energy ratio to estimate birdcall distances

Andrew Hall  
Designing and 3D printing the ultimate saxophone reed

Mischa Mrost  
Calculating cumulative sound levels from large industrial wind farms

**5:10 PM AWARDING OF STUDENT PRIZES**  
Acknowledgment to sponsors, thank yous and farewell

**5:30 PM CONFERENCE CLOSE**