

# PROGRAMME

## MONDAY 2ND SEPTEMBER

**9:00** **REGISTRATIONS & TRADE SHOW** *Main Foyer*

**10:00** **MORNING TEA & TRADE SHOW** *Main Foyer*

**10:30** **OPENING PLENARY** *James Hay Theatre - Sponsored by GIB*

Concert Hall Acoustics and the Christchurch Town Hall  
**Sir Harold Marshall**  
Chairs: James Whitlock & Chris Day  
Followed by a tour of the *Douglas Lilburn Auditorium*

**12:00** **LUNCH & TRADE SHOW** *Main Foyer*

**1:15** **TECHNICAL SESSION 1 - Sponsored by GIB**

**Building & Room Acoustics**  
*James Hay Theatre*  
Chair: James Whitlock

**Road Traffic Noise**  
*Victoria Room*  
Chair: Christian Vossart

**1:15 - 1:35** Rig design review and testing of a new E200 test rig in accordance with EN 16487 2014 Acoustics Test code for suspended ceilings sound absorption  
**Michael Latimer**

Improved CPX Enclosure Correction Measurements using a Maximum Length Sequence Impulse Response  
**Robin Wareing**

**1:35 - 1:55** Anechoic chamber calibration using sweep signals  
**Huachen Zhu**

Improving surfaces for quieter roads  
**Richard Jackett**

**1:55 - 2:15** Practical implementation of a computational tool for calculating sound radiation directivity from panels and openings  
**Dylan Guthrie**

Hitting new lows – specification and deployment of quieter road surfaces  
**Stephen Chiles**

**2:15 - 2:35** AWES-QAM-2-2024: Full-scale wind testing of components of building envelopes and architectural features  
**Greg Simmons**

Individual Vehicle Noise – Research Update  
**Robin Wareing**

**2:45** **AFTERNOON TEA** *Main Foyer*

**3:15** **TECHNICAL SESSION 2 - Sponsored by Meyer Sound**

**Room Acoustics**  
*James Hay Theatre*  
Chair: Mark Poletti

**Noise and Vibration Monitoring and Control**  
*Victoria Room*  
Chair: Mathew Legg

**3:15 - 3:35** Recreating Auditory Experiences in the Colosseum: An Archaeoacoustic Investigation of Acoustic Perception in Ancient Rome  
**Martyn Chambers**

Case studies: comparison of attended and remote noise and vibration monitoring in construction projects  
**Rewa Satory**

**3:35 - 3:55** Acoustic Design of Foyer Spaces at Te Pae Christchurch  
**Derek Thompson**

Comparing measured groundborne noise levels against vibration-to-noise prediction methods  
**Cameron Walbran**

**3:55 - 4:15** The development of an active acoustics system  
**Mark Poletti**

Noise Compass: Advance Remote Noise Monitoring with Direction  
**Tony Bell**

**4:15 - 4:35** Meyer Sound Constellation - Flexible Acoustics Demonstration  
**Malcom Embleton**

Practical testing methodology for evaluating the acoustic performance of oversized noise attenuators in real-world environments  
**Axel Montes de Oca**

**5:00** **ASNZ AGM** *James Hay Theatre*

**6:00** **WELCOME DRINKS** *Mr Brightside Rooftop Bar*

**8:00** **PRIVATE SCREENING OF "MAURICE AND I"** *Lumière Cinemas - Sponsored by Marshall Day Acoustics*



## TUESDAY 3RD SEPTEMBER

<b>8:30</b>	<b>REGISTRATIONS &amp; TRADE SHOW</b> <i>Main Foyer</i>	
<b>9:00</b>	<b>KEYNOTE SESSION</b> <i>Limes Room - Sponsored by Batten &amp; Cradle Flooring Systems</i>	
	The Research Initiatives and Innovation for Future Home Design in Canada <b>Jeff Mahn</b> Chair: Michael Kingan	
<b>10:15</b>	<b>MORNING TEA &amp; TRADE SHOW</b> <i>Main Foyer</i>	
<b>10:45</b>	<b>TECHNICAL SESSION 3 - Sponsored by Autex Acoustics</b>	
	<b>Building Acoustics</b> <i>Limes Room</i> Chair: Michael Latimer	<b>Instrumentation and Measurement</b> <i>Victoria Room</i> Chair: Mathew Legg
<b>10:45 - 11:05</b>	Adapting sound insulation test methods to identify defects in fire-rated building elements <b>Tim Beresford</b>	Seeing sound waves in motion <b>Richard Jackett</b>
<b>11:05 - 11:25</b>	Tapping machine vs rubber ball for impact sound Case study in result variability <b>Jeffery Chen</b>	Investigations using the SINUS AC100 Acoustic Camera <b>Sam Jackson</b>
<b>11:25 - 11:45</b>	Considerations when Impact testing timber floors for low-frequency performance and methods of improvement <b>Nason Hameed</b>	Ground-board mounted microphones for outdoor noise measurement <b>Michael Kingan</b>
<b>11:45 - 12:05</b>	The measurement of structure-borne noise for constructions of cross-laminated timber floors with lightweight timber framed interior walls <b>Jeffrey Mahn</b>	A cubic microphone array using diffraction compensation for room acoustics assessment <b>Mark Poletti</b>
<b>12:05 - 12:25</b>	Application of acoustic resonators within inter-tenancy partitions for low-frequency sound insulation <b>Haydn Nicholson</b>	Investigating the directional accuracy of ambisonics microphone arrays <b>Jessica Robinson</b>
<b>12:30</b>	<b>LUNCH &amp; TRADE SHOW</b> <i>Main Foyer</i>	
<b>1:45</b>	<b>KEYNOTE SESSION</b> <i>Limes Room - Sponsored by T &amp; R Interior Systems</i>	
	Acoustic adventures with dolphins and whales <b>Steve Dawson</b> Chair: Jon Styles	
<b>2:45</b>	<b>AFTERNOON TEA</b> <i>Main Foyer</i>	
<b>3:15</b>	<b>TECHNICAL SESSION 4 - Sponsored by Acoustic Research Labs Pty Ltd</b>	
	<b>Environmental Noise</b> <i>Limes Room</i> Chair: Jon Styles	<b>Road Traffic Noise and the Environment</b> <i>Victoria Room</i> Chair: Tim Beresford
<b>3:15 - 3:35</b>	The effects of noise from coastal construction on New Zealand's little penguin, kororā ( <i>Eudyptula minor</i> ) <b>Lindsay Leitch</b>	An Investigation into the suitability of trees as a phononic metamaterial for traffic noise barriers <b>Haydn Nicholson</b>
<b>3:35 - 3:55</b>	Not in my backyard: Roostergate – An example of Environmental noise and the court process that followed <b>Tanya Morrison</b>	Operational Noise Measurements on Raised Vehicle Platforms <b>George van Hout</b>
<b>3:55 - 4:15</b>	Generative AI and Acoustic Reporting <b>Alister Stubbe</b>	Social Cost (Health) of Land Transport Noise Exposure in New Zealand <b>Shivam Jakhu</b>
<b>4:15 - 4:35</b>	New Zealand's participation in International Standards <b>Stephen Chiles</b>	Community response to transport noise exposure in New Zealand <b>Sharon Yung</b>
<b>6:30</b>	<b>GALA DINNER</b> <i>Christchurch Art Gallery, Seated 7pm - Sponsored by GIB</i>	

# WEDNESDAY 4TH SEPTEMBER

**8:30 REGISTRATIONS & TRADE SHOW** *Main Foyer*

**9:15 KEYNOTE SESSION** *Limes Room - Sponsored by Hushtec (CPL)*

How do Aircraft Noise contours Connect us to the World?

**Felicity Hayman**

Chair: Tim Beresford

**10:30 MORNING TEA & TRADE SHOW** *Main Foyer*

**11:00 TECHNICAL SESSION 5** - *Sponsored by Asona*

**Acoustics in the Air**

*Limes Room*

Chair: Jon Styles

**Acoustics of Materials and Properties**

*Victoria Room*

Chair: Michael Kingan

**11:00 - 11:20** Developing Aircraft Noise Criteria for a Greenfield International Airport in Angola  
**George van Hout**

An overview of the integration of metamaterials into acoustic building elements  
**Andrew Hall**

**11:20 - 11:40** Computational Noise Modelling of Aircraft Noise at a Greenfield International Airport in Africa  
**George van Hout**

Data-Driven Analysis of Granular Chains for Enhanced Wave Control  
**Marcos Espinosa-Cuertas**

**11:40 - 12:00** Finding a buzzkill – investigations to understand and manage high voltage conductor noise  
**Stephen Chiles & Matthew Walker**

Sound Absorption Characteristics of Unconsolidated Granular Materials  
**Yousif Badri**

**12:00 - 12:20** Photovoltaic noise barriers-noise attenuation at low frequencies and optimum renewable electrical energy  
**Cedric Roberts**

Application of granular materials into wall partitions for sound insulation  
**Oliver Marchl**

**12:30 LUNCH & TRADE SHOW** *Main Foyer*

**1:30 TECHNICAL SESSION 6** - *Sponsored by Marshall Day Acoustics*

**Acoustics of Rooms and Learning Environments**

*Limes Room*

Chair: Tracy Hilliker

**1:30 - 1:50** Investigation into bass rise in educational spaces  
**Sebastian Yeoman**

**1:50 - 2:10** Speech communication in outdoor learning environments  
**Christian Vossart**

**2:10 - 2:30** Cost-efficient Classroom Acoustics Design in New Zealand  
**James Whitlock**

**2:30 - 2:50** Investigating the Lombard effect in a speaker's voice level in noisy virtual environments under varying room acoustics  
**Alyssa D'Souza**

**2:50 - 3:10** Recent development in visualisations for acoustics  
**Thomas Scelo**

**3:15 AWARDING OF PRIZES** *Limes Room*

Prizegiving Chair: Michael Kingan

Closing address Tim Beresford & Tracy Hilliker

**3:30 CONFERENCE CLOSE**