



Programme

SUNDAY 29 AUGUST

2.00pm – 6.00pm Registration Desk Open

Levene Foyer

6.00pm – 7.30pm Welcome Function

Auckland Town Hall Concert Chamber

MONDAY 30 AUGUST

8.00am Registration Desk Open

Levene Foyer

9.00am Welcome & Introductions

Lower NZI 1

9.10am **Theory & current experimental data regarding the possibility of acoustic inertial confinement fusion**

Lower NZI 1

Dr Felipe Gaitan

Chair: James Whitlock

10.10am Morning tea (amongst exhibition)

Lower NZI Foyer

Session 1: Wind Turbine & Wind Farm Noise

Lower NZI 1

Chair: Malcolm Hunt

Session 2: Electroacoustics

Lower NZI 2

Chair: George Dodd & Yoshimasa Sakurai

10.40am The influence of sound level meter noise floor on NZS6808:2010 wind farm noise assessments

Miklin Halstead

Can we save the cost of building anechoic chambers?

George Dodd

11.00am Recommended noise level design goals and limits at residential receptors for wind turbine developments in the United States

David Hessler (presented by Malcolm Hunt)

Determination and display of spatial and temporal room impulse responses

Daniel Protheroe

11.20am The high amenity limit in NZS6808: 2010 - What is it and where did it come from?

Paul Botha

One Study for Efficient Noise Control Inside Compartment by Sound Canceling the Minimum Audible Time for Continuous Short Sound Toward Rapid Feedback of Ride Quality

Kazuhide Okada

11.40am Discussion

Discussion

12.00pm	Lunch (amongst exhibition)		
1.00pm	The role of acoustics in the Green Star NZ system <i>Rohan Bush</i> Chair: Grant Emms		Lower NZI 1
Session 3: Acoustics & the Sustainable Built Environment Lower NZI 1 Chair: Grant Emms		Session 4: Using Acoustics to Monitor the Environment Lower NZI 2 Chair: Stuart Bradley	
1.45pm	Acoustic conditions in sustainable buildings - results of a worldwide survey of users' perceptions <i>George Baird</i>	Multi-sodar acoustic remote sensing in complex terrain <i>Paul Behrens</i>	
2.05pm	The challenge of balancing the demands for a comfortable thermal and acoustic built environment in a sustainable future <i>Michael Barclay</i>	Application of acoustic remote sensing to understanding the urban environment <i>Stuart Bradley</i>	
2.25pm	Enabling sustainable acoustics through new ways of communication <i>Elma Buskens</i>	Design of an adaptive high resolution acoustic camera <i>Mathew Legg</i>	
2.45pm	Neighbourhood quiet area definition in the implementation of European directive 2002/49/EC <i>Gaetano Licitra</i>	Environmental monitoring using arbitrary microphone arrays <i>Wyatt Page</i>	
3.05pm	Afternoon tea (amongst exhibition)		Lower NZI Foyer

Session 3 continued

3.35pm Reuse and recycling of acoustic ceiling panels in New Zealand
Neil Ridgway

3.55pm How technology can support sustainable living
Yoshimasa Sakurai

4.15pm **Decisions, decisions, decisions – Identifying sustainable acoustic materials & methods**

Carol Boyle
Chair: George Dodd

5.00pm Close of Day One

7.00pm Symposium Dinner
-11.00pm

Session 4 continued

Fast acoustic tomography to 2D-slice atmospheric turbulent fields
Stuart Bradley

Tracking of migratory birds using 2D microphone arrays
Mathew Legg

Lower NZI 1

The Civic Theatre Safari Room

TUESDAY 31 AUGUST

8.00am Registration Desk Open Levene Foyer

9.00am **Acoustical design strategies for terraced wood frame multi-family housing** Lower NZI 1
Trevor Nightingale
 Chair: Keith Ballagh

9.45am Morning tea (amongst exhibition) Lower NZI Foyer

Session 5: Acoustics of Lightweight Buildings Lower NZI 1 Chair: Keith Ballagh & Trevor Nightingale	Session 6: Managing Land Transport Noise for Sustainable Living Lower NZI 2 <i>Sponsored by the New Zealand Transport Agency</i> Chair: Rob Hannaby	Session 7: Sustainability of Hearing Lower NZI 3 Chair: George Dodd
10.15am Sound attenuation in a sandwich floor <i>Delphine Bard</i>	Towards "natural" noise mitigation for surface transport <i>Greg Watts</i>	Recreational noise exposure in New Zealand <i>Kim Dirks</i>
10.35am On field impact sound pressure level performances of basic wooden beam floor structures <i>Marco Caniato</i>	How can you ensure noise barriers deliver a good urban design outcome? <i>Tim Robinson</i>	Noise-induced hearing loss in New Zealand: Framework for investigation <i>David Welch</i>
10.55am Lightweight floor/ ceiling systems with improved impact sound insulation <i>Hyuck Chung</i>	Review of the sustainability of noise reducing devices for EU project QUIESST <i>Crina Oltean-Dumbrava</i>	Noise-induced hearing loss in New Zealand: Noise exposure and hearing protection <i>Gareth John</i>

Session 5 continued

11.15am Improving the sound insulation and sustainability of timber-framed floors
Grant Emms

11.35am Modelling and experimental validation of complex locally resonant structures
Andrew Hall

11.55am

Adapting simple prediction methods to sound transmission of lightweight foam cored panels
Keith Ballagh

Session 6 continued

Beyond OGPA - the acoustic performance of low noise road surfaces in NZ
Vince Dravitski

Quiet and groovy road surfaces
Bryan Pidwerbesky

Introducing the NZTA Noise Barrier Design Guide
NZTA
Using the new NZ road traffic noise standard NZS 6806: 2010
Rob Hannaby

Session 7 continued

Effective strategies in the prevention of noise induced hearing loss
Ian Laird

Noise in the shearing industry
David McBride

A pilot study on the acoustic environment in early childhood centres, and the hearing status and exposure to noise of early childhood centre staff
Stuart McLaren

12.15pm Lunch (amongst exhibition) Lower NZI Foyer

1.15pm **Environmental influences on hearing & the prevention of hearing loss in the New Zealand context** Lower NZI 1
Peter Thorne
 Chair: Larry Elliott

<i>Session 5 continued</i>		<i>Session 6 continued</i>	<i>Session 7 continued</i>
2.00pm	Rating the impact sound insulation of flooring from the Airborne Sound Reduction Index <i>Daniel Martens</i>	A review of the adoption of international vibration standards in New Zealand <i>James Whitlock</i>	Noise-induced hearing loss in New Zealand: Epidemiology and history <i>Alla Grynevych</i>
2.20pm	Sound insulation descriptors in Europe - Special rules complicate harmonization within light weight industry <i>Delphine Bard</i>	What land use planning options are available to manage transport noise in NZ? <i>Matthew McCallum-Clark</i>	Opposition to wind turbines: noise about nothing? <i>Daniel Shepherd</i>
2.40pm	Repeatability of impact sound insulation in field conditions for timber floors <i>Ming Li</i>	Land use planning and rail noise in NZ - what's the story? <i>Pam Butler</i>	Noise-induced hearing loss in a New Zealand paper manufacturing company <i>Judy Walker</i>
3.00pm	Sound transmission in random structures <i>Colin Fox</i>	Innovative approaches to managing construction <i>Stephen Chiles</i>	Session 8: Using Acoustics to Monitor Health Lower NZI 3 Chair: George Dodd Central Control of Lung Cancer Detection from Voice in a Vehicle thinking about Acoustic Sustainability <i>Kazuhide Okada</i>
3.20pm	Discussion	Managing construction noise - a contractors view <i>Elyse LaFace</i>	Discussion

3.40pm	Afternoon tea (amongst exhibition)	Lower NZI Foyer
4.10pm	Sustainable acoustics – Survive, revive & enhance <i>Peter Rogers (via video link)</i> Chair: Jon Styles <i>Sponsored by Forman Building Systems</i>	Lower NZI 1
4.55pm	Symposium Summary & Close	Lower NZI 1
5.15pm	New Zealand Acoustical Society AGM	Lower NZI 1