

PROGRAM

Conference Room 1

Conference Room 2

MONDAY

9.00am	Opening/Welcome	T. Mc Minn, N. Broner	
9.20am	Keynote: Sustainability in Capital Project Delivery	Daniel Ware	
	Session 1(a) Acoustic Measurement		
	Chair: T. Mc Minn		Chair: C. Speakman
9.50am	Experimental and numerical analyses of a floating slab track	Dominik Duschlbauer, Matthew Pettersson, Geoff Lucas, James Nelson	Carrying Out Noise Assessments For Proposed Supermarket Developments Matthew Harwood
10.15am	Concrete Slab Vibration and Structure-Borne Noise, Burj Dubai Case Study	Masood Alikhail	Optimisation of Noise Control Design for Environmental Noise Impact, Occupational Health & Safety Noise Exposure, Sustainability Impact and Construction Cost by Multi-Objective Combinatorial Optimisation Dave Davis
10.40am	Coffee/Tea break		
	Session 2(a) Acoustic Measurement		Session 2(b) Environmental Acoustics
	Chair: M. Chung		Chair: P. Teague
11.00am	Conformal mapping techniques for Consumer Products	Roger Upton, Karim Haddad, Jes Sorensen, Kung Nhim	The use of microphone windshields for outdoors noise measurements Damien Leclercq, Jonathan Cooper, Matthew Stead
11.25am	Beamforming in the Time-domain using 3D-microphone arrays	Gunnar Heilmann, Andy Meyer, Dirk Döbler	A study of wind induced noise in microphones G. Zhang, S. Kanapathipillai
11.50am	Directivity of sound from a metal-clad factory roof	Athol Day, Peter Eisenhuth	Checking Compliance Procedure for Wind Farms Environmental Noise Guidelines Valeri Lenchine
12.15pm	Scanning laser vibrometer for non-contact three-dimensional displacement and strain measurements	Ben Cazzolato, Stuart Wildy, John Codrington, Andrei Kotousov, Matthias Schuessler	Atmospheric Stability Specific Noise Criteria and Noise Predictions for Wind Farms Radek Kochanowski, Neil Mackenzie
12.40pm	Lunch		
	Session 3(a) Underwater Acoustics		Session 3(b) Environmental Acoustics
	Chair: A. Zinoviev		Chair: D. Davis and J. Parnell
1.30pm	Environmental Impact Assessment of Underwater Sound: Progress and Pitfalls	Alec Duncan, Robert McCauley	The Art Of Noise Communication John Wassermann, Jeffrey Parnell
1.55pm	Cyclostationarity for Passive Underwater Detection of Propellor Craft: A Development of DEMON Processing	David Hanson, J. Antoni, G. Brown, R. Emslie	Background Plus: The universal criteria Roger Hawkins
2.20pm	Modelling acoustic reflection loss at the ocean surface - an Australian study	Adrian Jones, Janice Sendt, Alec Duncan, Z Yong Zhang, Paul Clarke	Sound versus Noise In the Community Najah Ishac, Jo Manio
2.45pm	On modelling the seabed in order to predict low-frequency acoustic Transmission Loss in shallow water	Marshall Hall	Calculation of overall community noise impact due to a change in noise source emissions Dave Davis, Ben Hall
3.10pm	Coffee/Tea break		
	Session 4(a) Architectural Acoustics		Session 4(b) Environmental Acoustics
	Chair: D. Boglev		Chair: T. Marks
3.30pm	Comparison of theoretical and experimental results for the directivity of panels and openings	John Davy	Barriers to consistent results: the effects of weather Michael Smith
3.55pm	What is the Sound Transmission Loss of an Open Window?	Byron Martin	Noise Modelling Workshop Chair: J. Nancarrow
4.20pm	Analysing Room Impulse Responses with Psychoacoustical Algorithms: A Preliminary Study	Doheon Lee, Densil Cabrera	
4.45pm	Directional assessment of acoustic stage support in a drama theatre	Robin McCarthy, Densil Cabrera, John Bassett	
5.10pm	End of sessions		
5.15pm	AGM		
6.00pm	Barbeque		

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TUESDAY

Chair: L. Fouvy

9.00am **Keynote: Sustainability of acoustics education in Australia** Marion Burgess, Matthew Stead

9.25am Workshop on Education
Chair: M. Burgess / M. Stead

Session 5(a) Underwater Acoustics

Chair: A. Jones

9.50am Characterisation and analysis of snapping shrimp noise from the Nornalup-Walpole Estuary

Matthew Legg, D. Killeen, Alec Duncan

10.15am Characterisation of underwater acoustic modem performance for real-time horizontal data transmission

Grant Pusey, Alec Duncan

Session 5(b) Hearing

Chair: K. Legge

Human Sensitivity to Interaural Phase Difference for Very Low Frequency Sound

Mohamed Irfan Jan Mohamed, Densil Cabrera

10.40am Coffee/Tea break

Session 6(a) Musical Acoustics

Chair: J. Wolfe

11.00am PsySound3: An integrated environment for the analysis of sound recordings

Densil Cabrera, Sam Ferguson, Emery Schubert

Session 6(b) Transport Noise

Chair: G. Brown

The relationship between civil aircraft noise and community annoyance near Dubai International Airport (UAE)

Hussein Elmehdi

11.25am Improving the quality of a simple plastic 'didjeridu'

Markus Schneider, John Smith, Joe Wolfe

Comparison of Rail Modelling Predictions for SoundPLAN 4.2 and 6.5

Mark Batstone, Rhys Brown, Jennifer Uhr

11.50am Designing Bells with tuned overtones

Katherine Legge, J Petrolito

Determination and application of the long term road traffic noise attributes of road pavement surfaces in Queensland

Stephen Samuels, Arthur Hall

12.15pm How to play the first bar of Rhapsody in Blue

Jer-Ming Chen, John Smith, Joe Wolfe

CPX tyre/road noise measurements in Queensland - Noise characteristics of various road surfaces

Stephen Pugh, Dave Claughton, Frits Kamst

12.40pm Lunch

Session 7(a) Underwater Acoustics

Chair: A. Duncan

1.30pm A Tool to Estimate the Sensitivity of Underwater Acoustic Transmission Loss to Environmental Uncertainty

Douglas Sweet, Adrian Jones

Session 7(b) Architectural Acoustics

Chair: B. Martin

Acoustic Design Practices for Sustainable Buildings

Danny Boglev

1.55pm Low frequency structural and acoustic responses of a submarine hull under eccentric axial excitation from the propulsion system

Mauro Caresta, Nicole Kessissoglou

2.20pm Bearing calibration of the Cape Leeuwin hydroacoustic station

Binghui Li, Alexander Gavrilov, Alec Duncan, Alex Zinoviev

2.45pm Acoustic cloaking of an elastic cylinder in a plane waveguide by active means

Green Star Building

Rating Workshop

Chair: K. Burgemeister

3.10pm Coffee/Tea break

Session 8(a) Active Noise and Vibration

Chair: C. Hansen

3.30pm Structural and Acoustic Responses of a Submarine due to Propeller Forces Transmitted to the Hull via the Shaft and Fluid

Sascha Merz, Roger Kinns, Nicole Kessissoglou

Session 8(b) Architecture and Human Response

Chair: D. Cabrera

Design and Acoustic Performance of a Drum Practice Music Studio

Ross Emslie, David Hanson

3.55pm Investigation of Control Strategies on Hull-radiated Noise and Propeller Velocity

Xia Pan, Yan Tso, Paul Dylejko, James Forrest, Ross Juniper

Avoidance of Noise-related Errors in the Analysis of Room Impulse Responses

Santiago Ortiz, Hong-Jiun Nieh, Densil Cabrera

4.20pm An Experimental Study of the Effect of Splitter Plates on Vortex Induced Vibration

Ibrahim Ayoub, Ji Lu, Brijesh Dutta, Kenneth Elliot, Brad Stappenbelt, Jie Pan

Evaluation of binaural loudness models with signals of different diffusivity

Luis Miranda

4.45pm Broadband Noise reduction from a mini-UAV propeller through boundary layer tripping

Angus Leslie, K C Wong, Doug Auld

Effect of acoustic environment on the sensitivity of Speech Transmission Index to source directivity

Ken Stewart, Densil Cabrera

5.10pm End of sessions

7.30pm Banquet

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WEDNESDAY

Session 9(a) Transport Noise

Chair: K. Burgemeister

9.00am New Approaches for Understanding the Mechanisms of Brake Squeal

Sebastian Oberst,
Joseph Lai

9.25am The Design of a Constrained Layer Damping Solution for Rail Car Brake Squeal

Graham Brown, Ross
Emslie, David Hanson,
Paul Walsh, Steve
Grobler, Norm Broner

9.50am Comparison of Traffic Noise Predictions of Arterial Roads using Cadna-A and SoundPLAN Noise Prediction Models

Michael Chung, Peter
Karantonis, David
Gonzaga, Tristan
Robertson

10.15am A novel path contribution analysis method for test-based NVH troubleshooting

K. Janssens, P. Mas, P.
Gajdatsy, L. Gielen, H.
Van der Auweraer
H.Ozcelik paid

10.40am **Coffee/Tea break**

Session 10(a) Environmental Acoustics

Chair: J. Nancarrow

11.00am Maximising the cost-effectiveness of noise control treatments for overland conveyors by engineering optimisation

Dave Davis

11.25am Environmental Impact Assessment of Biomass Power Station WA in terms of Noise and Air Quality Impacts

Ashok Kaniyal, Radek
Kochanowski, Neil
Mackenzie

11.50am Urban wind turbines

Daniel Griffin

12.15pm **Closing**

N. Broner

12.30pm **Lunch**

Session 9(b) Industrial Acoustics

Chair: J. Davy

A detailed tutorial for evaluating in-duct net acoustic power transmission in a circular duct with an attached cylindrical Helmholtz resonator using transfer matrix method

An Improved Plenum Chamber Silencer

Sarabjeet Singh, Colin
Hansen, Carl Howard

Mark Russell, Fergus
Fricke, Densil Cabrera

Transmission loss of a panel with an array of tuned vibration absorbers

Carl Howard

Directivity of Sound from an Open Ended Duct

Athol Day, Brian Bennett

Session 10(b) Industrial Acoustics

Chair: N. Mackenzie

Characterisation of compressed gas leaks using airborne ultrasound

Hamish Wolstencroft,
James Neale

Is CoRTN an Leq or L10 Procedure?

Simon Kean