AAS 2008: Acoustics and Sustainability
How should acoustics adapt to meet future demands?

Deakin Management Centre, Geelong, Victoria, Australia, 24 to 26 November 2008

MONDAY

Time				
9.00am	Opening/Welcome			
9.20am	Keynote (Mark Thompson) + discussion			
	Acoustic Measurement		**Environmental Acoustics**	
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			
	Acoustic Measurement		**Environmental Acoustics**	
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			
	Underwater Acoustics		**Environmental Acoustics**	
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	A Tool to Estimate the Sensitivity of Underwater Acoustic Transmission Loss to Environmental Uncertainty	Douglas Sweet, Adrian Jones	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			
	Architectural Acoustics		**Environmental Acoustics**	
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	
4.20pm	Analysing Room Impulse Responses with Psychoacoustical Algorithms: A Preliminary Study	Doheon Lee, Densil Cabrera	Workshop	
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

Time			
9.00am	**Keynote: Sustainability of acoustics education in Australia**	Marion Burgess, Matthew Stead	
9.25am	Workshop on Education		
	Underwater Acoustics		**Hearing**
9.50am	Characterisation and analysis of snapping shrimp noise from the Nornalup-Walpole Estuary	Matthew Legg, D. Killeen, Alec Duncan	Noise exposure standards for sustainable hearing — Warwick Williams
10.15am	Characterisation of underwater acoustic modem performance for real-time horizontal data transmission	Grant Pusey, Alec Duncan	Human Sensitivity to Interaural Phase Difference for Very Low Frequency Sound — Mohamed Irfan Jan Mohamed, Densil Cabrera
10.40am	Coffee/Tea break		
	Musical Acoustics		**Transport Noise**
11.00am	PsySound3: An integrated environment for the analysis of sound recordings	Densil Cabrera, Sam Ferguson, Emery Schubert	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		
	Underwater Acoustics		**Architectural Acoustics**
1.30pm	Cyclostationarity for Passive Underwater Detection of Propellor Craft: A Development of DEMON Processing	David Hanson, J. Antoni, G. Brown, R. Emslie	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 Kessissoglo	Green Star Building
2.20pm	Bearing calibration of the Cape Leeuwin hydroacoustic station	Binghui Li, Alexander Gavrilov, Alec Duncan	Rating Workshop
2.45pm	Acoustic cloaking of an elastic cylinder in a plane waveguide by active means	Alex Zinoviev	
3.10pm	Coffee/Tea break		
	Active Noise and Vibration		**Architecture and Human Response**
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	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

	Transport Noise		**Industrial Acoustics**	
9.00am	New Approaches for Understanding the Mechanisms of Brake Squeal	Sebastian Oberst, Joseph Lai	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	Sarabjeet Singh, Colin Hansen, Carl Howard
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	An Improved Plenum Chamber Silencer	Mark Russell, Fergus Fricke, Densil Cabrera
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	Transmission loss of a panel with an array of tuned vibration absorbers	Carl Howard
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	Directivity of Sound from an Open Ended Duct	Athol Day, Brian Bennett
10.40am	Coffee/Tea break			
	Environmental Acoustics		**Industrial Acoustics**	
11.00am	Maximising the cost-effectiveness of noise control treatments for overland conveyors by engineering optimisation	Dave Davis	Characterisation of compressed gas leaks using airborne ultrasound	Hamish Wolstencroft, James Neale
11.25am	Environmental Impact Assessment of Biomass Power Station WA in terms of Noise and Air Quality Impacts	Ashok Kaniyal, Radek Kochanowski, Neil Mackenzie	Is CoRTN an Leq or L10 Procedure?	Simon Kean
11.50am	Urban wind turbines	Daniel Griffin		
12.15pm	Closing			
12.30pm	LUNCH			

Note: This schedule is subject to change