

Wednesday 2 November 2011

ACOUSTICS 2011

Registration

Short Course

Technical Tour

Official Opening and Welcoming Function

Short Course: *Environmental Noise Assessment*

8:30		Basic Noise Theory Presenter: Ron Rumble
10:30		Morning Tea
11:00		Computer Modelling Presenter: Peter Karantonis
13:00	Registration	Technical Tour: <i>Whale Watch Cruise</i> Lunch
14:00		Legislation Presenter: Michael Hayne
15:30		Afternoon Tea
15:45		Development Assessment Presenter: Ron Rumble
16:45		Open Forum Moderator: Ron Rumble
17:00		Close Shortcourse
17:30	Disembark Surfers Paradise Wharf 17:30	
19:00	Official Opening ACOUSTICS 2011 and Welcoming Barbeque	

Thursday 3 November 2011

ACOUSTICS 2011 Session 1

7:00	Breakfast			
8:00	Registration			
8:55	Conference Introduction - Boulevard 1			
9:00	<p>Plenary 1: Dr. David Hiller</p> <p>005: <i>The prediction and mitigation of vibration impacts of tunnelling</i></p> <p>Chair: Matt Terlich Boulevard 1</p>			
	<p>Session 1A Infrastructure Development</p> <p>Chair: Claire Richardson Boulevard 1</p>	<p>Session 1B: Sleep disturbance & health effects</p> <p>Chair: Russ Brown Boulevard 2</p>	<p>Session 1C: Room Acoustics</p> <p>Chair: Ron Rumble Boulevard 3</p>	<p>Session 1D: Noise and Vibration Control I</p> <p>Chair: Ben Cazzolato Palm 3 (Level 3)</p>
9:45	<p>033: <i>Measurement and Prediction of Construction Vibration Affecting Sensitive Laboratories.</i></p> <p>Kai Fisher</p>	<p>107: <i>Disturbances of sleep by noise.</i> (Keynote). B. Greifahn</p>	<p>70: <i>Decay Envelope Manipulation of Room Impulse Responses: Techniques for Auralization and Sonification.</i></p> <p>Doheon Lee</p>	<p>64: <i>Adaptive-passive quarter-wave tube resonator silencer.</i></p> <p>Carl Howard</p>
10:05	<p>108: <i>Construction Noise Management for Hinze Dam Stage 3</i></p> <p>Joseph Lee</p>		<p>85: <i>The impact of head-tracking in virtual room acoustic simulations for egocentric sound source.</i></p> <p>Manuj Yadav</p>	<p>65: <i>Computational optimisation of the acoustic performance of mufflers for sleep apnoea devices.</i></p> <p>Peter Jones</p>
10:25	<p>026: <i>Construction Noise Management Plans: A case study</i></p> <p>Chris Schulten</p>		<p>114: <i>Strategic Level Assessment of the Health Effects of Environmental Noise.</i></p> <p>Lex Brown</p>	<p>72: <i>Comparison of Room Acoustic Measurements of Diffuseness with a Theoretical Model.</i></p> <p>David Spargo</p>

Thursday 3 November 2011

ACOUSTICS 2011 Session 2

10:45 Morning Tea (Trade Exhibition Area)					
Session 2A: Non-Destructive Testing Chair: Martin Veidt Boulevard 1	Session 2B Sleep Disturbance Workshop Boulevard 2		Session 2C: Music Acoustics Chair: Ben Hall Boulevard 3	Session 2D: Noise Control Elements Chair: Ian Hillock Palm 3 (Level 3)	
11:10	102: <i>Damage Assessment of Composite Archery Arrows.</i> Ben Cazzolato	Chair: Russ Brown Panel: Lex Brown Frank Henry Barbara Greifahn		142: <i>The acoustics of registers and resonances in singing.</i> John Smith (Keynote)	92: <i>Micro-perforated sound absorbers in stretched materials.</i> Christian Nocke
11:30	138: <i>Damage Detection in Layered Concrete Structures.</i> Mitchell Willcocks (Invited: Acoustics Bursary, Qld Div)				77: <i>A Review of Acoustic Absorption Mechanisms of Nanoscopic Fibres.</i> Md. Ayub
11:50	45: <i>Effect of insulation paper ageing on the vibration of electrical conductors.</i> Ming Jin				71: <i>The Loudness Envelope of the Messa di Voce.</i> Densil Cabrera
12:10	35: <i>Optimally Parametrized Wavelet Transform for Machine Residual Life Prediction.</i> Muhammad Farrukh Yaqub			82: <i>Correlations among subjective performance qualities and objective acoustical parameters of the didjeridu.</i> Joe Wolfe	16: <i>Investigations of Tuned Vibration Absorber with High Damping for Increasing Acoustic Panels Sound Transmission Loss in Low Frequency Range.</i> Karel Ruber

Thursday 3 November 2011

ACOUSTICS 2011 Session 3

12:30	LUNCHEON (Trade Exhibition Area)			
13:30	Plenary 2: James Lynch 025: <i>Acoustical Oceanography and Shallow Water Acoustics</i> Chair: Alec Duncan Boulevard 1			
	Session 3A: Underwater Acoustics I Chair: Alec Duncan Boulevard 1	Session 3B: Descriptors and Metrics Chair: Peter Heinze Boulevard 2	Session 3C: Infrastructure Development Chair: Gillian Adams Boulevard 3	Session 3D: Noise and Vibration Control II Chair: Jia Pan Palm 3 (Level 3)
14:15	128: <i>Listening to the ocean: insights into marine animals and the ocean environment.</i> Douglas H. Cato (Keynote)	52: <i>The Evolution of Aircraft Noise Descriptors over the Past Decade.</i> David Southgate (invited)	42: <i>Rail Transit Noise and Vibration Impacts – Why Environmental Planning Doesn't Always Work.</i> Steven Wolfe (keynote)	62: <i>A new cost function algorithm for adaptive passive vibration and acoustic resonators.</i> Carl Howard
14:35		58: <i>In Search of Better Measurement Statistics for Environmental Noise.</i> Huub Bakker		69: <i>Performance evaluation of an active headrest using the remote microphone technique.</i> Ben Cazzolato
14:55	49: <i>Recent Developments in Modelling Acoustic Reflection Loss at the Rough Ocean Surface.</i> Adrian Jones	6: <i>A brief review of road traffic noise indicators and correlations with the LA10(18hour).</i> Daniel Naish	67: <i>The Clem7 Motorway Tunnel: Mechanical and Electrical Plant Acoustic Design and Performance.</i> Claire Richardson	56: <i>Hybrid Passive/Active Inertial Actuators to Attenuate the Structural and Acoustic Responses of a Submerged Hull.</i> Peter Gangemi
15:15	12: <i>Coupled Fluid-Structure Interactions Using the Fast Multipole Method.</i> Daniel Wilkes	78: <i>Government Environmental Noise Policy – A Personal Account of the Last 40 Years.</i> Roger Treagus	130: <i>Noise constraints for coal seam gas development and operations.</i> John Savery (Invited)	96: <i>Design and Evaluation of a Pole Placement Controller for Controlling Vibration of Structures.</i> Xia Pan

Thursday 3 November 2011

ACOUSTICS 2011 Session 4

15:35 Afternoon Tea (Trade Exhibition Area)				
Session 4A: Underwater Acoustics II Chair: Adrian Jones Boulevard 1	Session 4B: Environmental Noise Chair: Dan Naish Boulevard 2	Session 4C: Vibrations Chair: Boulevard 3	Session 4D: Flow Induced Noise I Chair: David Mee Palm 3 (Level 3)	
16:00	87: <i>How Wrong Can You Be? Can a Simple Spreading Formula Be Used to Predict Worst-Case Underwater Sound Levels?</i> Alec Duncan (invited)	115: <i>Soundscapes and Soundscape Planning.</i> Lex Brown (Invited)	21: <i>On the symmetry of the impedance matrix for acoustic radiation modes and sound power evaluation.</i> Herwig Peters	44: <i>Empirical Study of the Tonal Noise Radiated by a Sharp-edged Flat Plate at Low-to-moderate Reynolds Number.</i> Danielle Moreau
16:20	22: <i>A dynamic configurable sensor for fractional-octave-band underwater acoustic measurements.</i> Matthew Legg	37: <i>Noise Reduction through Facades with Open Windows.</i> Mitchell Ryan (invited: RJ Hooker Bursary, QLD Div)	34: <i>Finite Element Modelling of the Vibration of a Power Transformer.</i> Yuxing Wang	46: <i>The Effect of Trailing Edge Serrations on Flat Plate Self-noise at Low-to-moderate Reynolds Number.</i> Danielle Moreau
16:40	120: <i>Subarray Beamforming for Reducing the Effect of Flow Noise on Sonar Arrays.</i> James Leader	15: <i>Application of environmental criteria and the Queensland Development Code to proposed development contiguous with transport corridors.</i> Arthur Hall	111: <i>Gearbox Fault Simulation using Finite Element Model Reduction Technique.</i> Lav Deshpande	47: <i>Analysis Of Noise Generated By A Wall-Mounted Finite-Length Airfoil.</i> Narasimha M Thota
17:00	134: <i>Conceptual development of a dynamic underwater acoustic channel simulator.</i> Michael Caley	Workshop <i>BUILDING DESIGN FOR TRANSPORTATION NOISE: TECHNICAL ACOUSTICS AND POLICY, GETTING THE BALANCE RIGHT</i> Chair: Daniel Naish	95: <i>Development of a magnetic levitation vibration isolator using inclined permanent magnetic springs.</i> Yann Frizenschaf	43: <i>Turbulent Trailing Edge Noise Estimation Using a RANS-based Statistical Noise Model.</i> Cristobal Albarracin
17:20	97: <i>Echo time spreading and the definition of transmission loss for broadband active sonar.</i> Yong Zhang	Panel: Dave Southgate Roger Treagus Stephen Pugh Arthur Hall	116: <i>Analytical Modelling of Single and Two-Stage Vibration Isolation Systems.</i> Stephen Moore	53: <i>Multipole Moment Preserving Condensation of Flow Induced Quadrupole Acoustic Sources.</i> Paul Croaker
17:40	Close Day 1			

Thursday 3 November 2011

Australian Acoustical Society Annual General Meeting

ACOUSTICS 2011 CONGRESS DINNER

18:00	<i>Australian Acoustical Society Annual General Meeting (Palm 3)</i>
19:00	Cocktail Reception (Boulevard Pre-function Area)
19:30	<i>ACOUSTICS 2011 CONGRESS DINNER</i> Speaker: Joe Wolfe
23:30	

Friday 4 November 2011
ACOUSTICS 2011 Session 5

7:00	Breakfast			
9:00	Plenary 3: Professor David Thompson <i>009 The role of theoretical models in shaping railway noise policy and mitigation strategies.</i> Chair: Paul Meehan Boulevard 1			
	Session 5A: Rail Noise I Chair: Paul Meehan Boulevard 1	Session 5B: Wind Turbines I Chair: Matt Terlich Boulevard 2	Session 5C: Road Traffic Noise I Chair: Steve Pugh Boulevard 3	Session 5D: Flow Induced Noise II Chair: Con Doolan Palm 3 (Level 3)
9:45	40: <i>Predicting variable speed rail corrugation growth using statistical moments.</i> Ross Batten	50: <i>Comparison of Compliance Results from the Various Wind Farm Standards Used in Australia.</i> Jonathan Cooper	110: <i>Traffic Noise Prediction with Nord2000 – An Update.</i> Jørgen Kragh (Keynote)	54: <i>A Simple Approach to Estimate Flow-Induced Noise from Steady State CFD Data.</i> Paul Croaker
10:05	51: <i>Railway rolling noise prediction under European conditions.</i> Shijie Jiang	29: <i>Contribution of Wind Farm Into Noise at a Distant Receiver in a Rural Environment.</i> Byron Holmes		48: <i>On the equivalence of the Ffowcs Williams – Hawkings and the non-uniform Kirchhoff equations of aeroacoustics.</i> Alex Zinoviev
10:25	Rail workshop session 1	30: <i>Comparison of Predicted and Measured Wind Farm Noise Levels and Implications for Assessments of New Wind Farms.</i> Tom Evans	100: <i>Noise level variation in the CBD with height.</i> Sangarapillai Kanapathipillai	105: <i>The Characteristics of Sound Radiation by Turbulent Flow over a hydrofoil and a bare-hull Suboff.</i> Li Chen

Friday 4 November 2011
ACOUSTICS 2011 Session 6

10:45 Morning Tea (Trade Exhibition Area)				
	Session 6A Rail Noise II Chair: Dave Anderson Boulevard 1	Session 6B: Wind Turbines II Chair: Christophe Delaire Boulevard 2	Session 6C: Road Traffic Noise II Chair: Arthur Hall Boulevard 3	Session 6D: Structural Vibration Chair: Nicole Kessissoglou Palm 3 (Level 3)
11:10	98: <i>Groundborne Noise and Vibration Control at Performing Arts Centers using Elastomeric Bearings.</i> Steven Wolfe	17: <i>Concepts for the control of wind turbine noise.</i> Con Doolan	39: <i>Prediction of Carpark Noise in Australian Conditions.</i> Laurence Nicol	141: <i>Analysis of underwater vibration of a torpedo-shaped structure subjected to an axial excitation.</i> Jie Pan
11:30	38: <i>Reducing Secondary Noise On Nanjing Metro, China.</i> Steve Barlow	57: <i>Problems Measuring Low Frequency Sound Levels Near Wind Farms.</i> B. Rapley	Workshop: Low Noise Road Surfaces Panel: Arthur Hall Steve Pugh	66: <i>The Effect of Distribution for a Moving Force.</i> Ahmed Reda
11:50	88: <i>A numerical study to evaluate dynamic responses of voided concrete sleepers to impact loading.</i> Sak Kaewunruen	73: <i>Wind Turbine Noise: why accurate prediction and measurement matter.</i> Bob Thorne		123: <i>Structural vibration transmission in stiffened structures.</i> James Forrest
12:10	Rail workshop session 2	119: <i>The Peril of Ignoring Insect Noise in the Assessment of Ambient Noise Levels.</i> Matthew Terlich		36: <i>Vibration characteristics of a cylinder with asymmetries.</i> Heye Xiao

Friday 4 November 2011
ACOUSTICS 2011 Session 7

12:30	LUNCHEON (Trade Exhibition Area)			
	Session 7A Rail Noise 3 Chair: David Thompson Boulevard 1	Session 7B: Wind Turbines and Low Frequency Noise Chair: Norm Broner Boulevard 2	Session 7C: Directivity and Response Chair: David Spearritt Boulevard 3	Session 7D: Acoustical Sensor Networks Chair: Michael Hayne Palm 3 (Level 3)
13:30	122: <i>Recent Developments in the Practical State-of-the-Art in Managing Rail Noise in Australia.</i> Dave Anderson (invited)	28: <i>A Preliminary Investigation Into The Determination Of The Inaudibility Level Of Mechanical Plant And Music Noise In The Presence Of Ambient Background Noise.</i> Rodney Phillips	99: <i>Practical Considerations for Designing Road Tunnel Public Address Systems.</i> Peter Patrick (invited)	89: <i>Fibre optic acoustic sensing for intrusion detection systems.</i> Gary Allwood
13:50	19: <i>Some Pitfalls in Using AS2377-2002 for Passby Noise Measurement.</i> David Hanson	23: <i>Low-frequency and Tonal Characteristics of Transformer Noise.</i> Michael Gange	137: <i>Road tunnel acoustics.</i> Peter Ridley	139: <i>Development of a Photo-Acoustic Trace Gas Sensor.</i> Christopher Kelly (invited: RJ Hooker Bursary, QLD Div)
14:10	79: <i>Investigation about the effect of angle of attack and relative humidity on wheel squeal.</i> Xiaogang Liu	Workshop: Wind Turbines and Low Frequency Noise Chair: Norm Broner	76: <i>Close-range variation in binaural responses to orally-radiated sources.</i> William Martens	93: <i>Sound Monitoring Networks New Style.</i> Dick Botteldooren
14:30	75: <i>Determination of track decay rate using field trials.</i> Wenxu Li		136: <i>Applicability of spherical microphone arrays in room acoustics.</i> Magdalena BOECK	14: <i>UAV-Based Acoustic Tomography.</i> Anthony Finn
14:50	Rail workshop session 3		94: <i>Acoustic source beam control using a compact virtual loudspeaker array.</i> Ken Stewart	106: <i>Acoustics and the Smart Phone.</i> Rhys Brown

Friday 4 November 2011
ACOUSTICS 2011 Session 8

15:10	Afternoon Tea (Trade Exhibition Area)	
	<p>Session 8A Marine Bio-Acoustics Chair: Doug Cato Boulevard 1</p>	<p>Session 8B: Psychoacoustics and Design Chair: Chris Schulten Boulevard 2</p>
15:40	<p>101: <i>Acoustic methods to mitigate bycatch and depredation by marine mammals on commercial fishing operations in Australian waters: Fishermens options.</i> Geoff McPherson (invited)</p>	<p>140: <i>Noise level assessments: Subjective vs objective measures.</i> Elizabeth Beach</p>
16:00	<p>127: <i>Detection of beaked whale clicks in underwater noise recordings.</i> Iain Parnum</p>	<p>3: <i>Emergency Vehicle Auditory Warning Signals: Physical and Psychoacoustic Considerations.</i> Aaron Maddern</p>
16:20	<p>91: <i>Measurements Of Snapping Shrimp Noise Along The Cooks River, Sydney.</i> Marshall Hall</p>	<p>133: <i>Prediction of noise from Small to Medium Sized Crowds.</i> Michael Hayne</p>
16:40	<p>27: <i>Underwater environmental impact assessments on marine mammals and fishes from sound radiated by anthropogenic noise.</i> Antoine David</p>	<p>112: <i>Acoustic Design Approach for Hospitals.</i> Samuel Clarke</p>
17:00	Close Day 2 - Conference Closes	