

ACOUSTICS WEEK IN CANADA

Vancouver, October 5-8, 2008

--- Conference Technical Program ---

SEMAINE CANADIENNE d'ACOUSTIQUE

Vancouver, 5-8 octobre 2008

--- Programme Technique de la Conférence ---

Sunday, October 5, 2008

dimanche, 5 octobre 2008

4:30 PM – 9:30 PM	CAA Board of Directors Meeting	--- Mountain Suite ---	ACA Réunion du Conseil d'Administration
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Monday, October 6, 2008

lundi, 6 octobre 2008

7:30 AM – 4:00 PM	Registration	--- Ballroom Foyer ---	Inscription
8:15 AM – 8:30 AM	Opening Ceremony and Welcome by Musqueam Elder Larry Grant	--- Nelson / Denman ---	Cérémonie d'ouverture et accueil par l'ainé Larry Grant de la bande de Musqueam
8:30 AM – 9:30 AM	Plenary Session: "The Origins of Constricted Voice Quality: The First Sounds of Speech" by John H. Esling, University of Victoria	--- Nelson / Denman ---	Session Plénière: "The Origins of Constricted Voice Quality: The First Sounds of Speech" par John H. Esling, Université de Victoria
9:30 AM – 10:00 AM	Coffee Break	--- Ballroom Foyer ---	Pause Café

	--- Comox ---	--- Denman ---	--- Nelson ---
	Second Language Acquisition Acoustics I / Acoustique de l'acquisition d'une seconde langue I Session Chair / Président: Murray Munro	First Nations Languages Acoustics I / Acoustique des langues Premières Nations I Session Chair / Président: Kimary Shahin	Vibroacoustics / Vibro-acoustique Session Chair / Président: Sabastian Ghinet
10:00 AM – 10:20 AM	'I said made (mate?)': Catalan/Spanish bilinguals' production of English word-final obstruents – Fullana & MackKay	A perception study of glottalization in Gitksan resonants – Lyon	Influence of dilatational propagating motion on diffuse field transmission loss of orthotropic sandwich composite panels – Ghinet & Atalla
10:20 AM – 10:40 AM	Effects of training modality on audio-visual perception of place of articulation and voicing in nonnative speech – Y. Wang et al.	Perturbations of pitch by ejectives in Upriver Halkomelem – Brown & Thompson	FE modeling of aircraft fuselage structure treated with viscoelastic material – Cintosun et al.
			Noise & Vibration / Bruit & Vibration Session Chair / Présidents: Brian Howe & Nick McCabe
10:40 AM – 11:00 AM	Learning Mandarin tones at sentence level through training: a pilot study – X. Wang	The acoustic correlates of the unparsed: why we need more than a strong-weak distinction – Caldecott	Noise control in hydraulic system driven by Swash plate pump by optimizing control unit – Chikhalsouk & Bhat
11:00 AM – 11:20 AM	Acoustic realization and perception of English lexical stress by Mandarin learners – Lai et al.	Vowel quality and duration in Deg Xinag – Hargus	Case study: Development of a high performance acoustical pipe lagging system – Kinart
11:20 AM – 11:40 AM	An acoustic study of stress in L2 production of German and Spanish – Miglio & Chun		
11:40 AM – 12:00 PM	The transfer of L1 acoustic cues in the perception of L2 lexical stress – Wang & Yoon		

12:00 PM – 1:00 PM	Buffet Lunch	--- Ballroom Foyer ---	Buffet Déjeuner
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Monday, October 6, 2008 (continued)

lundi, 6 octobre 2008 (suite)

	--- Comox ---	--- Denman ---	--- Nelson ---
	Environmental Noise I Bruit dans l'environnement I Session Chairs / Présidents: Brian Howe & Nick McCabe	Speech Production & Speech Disorders / Troubles du débit Session Chairs / Présidents: Bryan Gick & Linda Rammage	Occupational Noise Standards / Standards pour le bruit en milieu de travail Session Chair / Président: Tim Kelsall
1:00 PM – 1:20 PM	An investigation into wind generated aero-acoustic tones – Ibbotson et al.	Analysing coarticulation in Scottish English children and adults: an ultrasound study – Zharkova et al.	The ANSI Standard Standard S12.68-2007 method of estimating effective A-weighted sound pressure levels when hearing protectors are worn: A Canadian perspective – Voix et al.
1:20 PM – 1:40 PM	The Harmonoise/Imagine method – van Leeuwen & Hartog van Banda	A format frequency estimator for noisy speech based on correlation and cepstrum – Fattah et al.	CSA Appendix on measurement of noise exposure from headsets – Behar et al.
			Classroom Acoustics / Acoustique de salle de classe Session Chair / Président: Linda Rammage
1:40 PM – 2:00 PM	Recent developments in environmental assessment methods for wind turbine noise – Howe & McCabe	Acoustic testing for phonologization – Shahin	Acoustical evaluation of UBC non-classroom learning spaces – Hodgson & Villareal
2:00 PM – 2:20 PM	The role of source motion on noise generated by wind turbines – Richarz	Quantitative analysis of subphonemic flap / tap variation in NAE – Derrick & Gick	Ideal maximum noise levels for elementary school classrooms – Bradley
2:20 PM – 2:40 PM	Propagation of wind turbine noise in a boundary layer – Richarz	Tongue root retraction and tongue tip recoil in Xhosa alveolar click releases – Miller	Statistical analysis of classroom questionnaires and acoustical parameters – Steinger & Hodgson
2:40 PM – 3:00 PM	Coffee Break	--- Ballroom Foyer ---	Pause Café
		Second Language Acquisition Acoustics II / Acoustique de l'acquisition de seconde langue II Session Chair / Président: Yue Wang	Green Building Acoustics / Acoustique des bâtiments 'verts' Session Chair / Président: Maureen Connelly
3:00 PM – 3:20 PM	Recent studies of infrasound from industrial sources – Gastmeier & Howe	Production of English lexical stress by inexperienced and experienced learners of English – He et al.	Acoustical evaluation of six 'green' office buildings – Hodgson et al.
3:20 PM – 3:40 PM	Addressing the effects of overtopping vegetation on the performance of highway noise barriers – Wakefield	Durational properties of stressed syllables as a cue for English-accented French? – Guilbault	Sound transmission loss of green roofs – Connelly & Hodgson
	Sound Absorbing Materials / Matériaux absorbants Session Chair / Président: Raymond Panneton		
3:40 PM – 4:00 PM	Pressure/mass method to measure open porosity of porous solids – Salissou & Panneton	Do Mandarin-English bilinguals have an accent in their L1 vowel production? – Jiang	Relationship between ventilation, air quality and acoustics in 'green' and 'grown' buildings – Khaleghi et al.
4:00 PM – 4:20 PM	Establishing relationships between acoustic and physical properties of shoddy-based fibre absorbers for acoustic modeling – Manning & Panneton	L2 English vowel learning by Mandarin speakers: Does perception precede production? – Thomson	The acoustics of sustainable buildings – Richter et al.

Monday, October 6, 2008 (continued)

lundi, 6 octobre 2008 (suite)

4:20 PM – 4:40 PM	Fabrication of acoustic absorbing topologies using rapid prototyping – Godbold et al.	An acoustic study of the L2 VGN rime production – Li	Panel Discussion: Embedding acoustics into the integrated design process Réunion-débat: Imbriquer l'acoustique dans le processus de design intégré
4:40 PM – 5:00 PM	Sound absorption of a microperforated panel backed by an irregular-shaped cavity – Wang et al.	Mandarin speakers' productions of English vowels in real and pseudo words – Wu & Munro	
5:00 PM – 5:20 PM		Variability in Cantonese speakers' production of English vowels – Munro	

5:20 PM – 7:00 PM	Meet and Greet Reception	--- Windows on the Bay ---	Réception d'accueil
7:00 PM – 8:30 PM	Christ Church Cathedral Tour; Talk by Mike Noble, BKL; Organ Recital		Visite guidée de la Cathédrale Christ Church par Mike Noble, BKL; Récital d'orgue

Tuesday, October 7, 2008

mardi, 7 octobre 2008

7:30 AM – 4:00 PM	Registration	--- Ballroom Foyer ---	Inscription
8:30 AM – 9:30 AM	Plenary Session: "Studying the Sea with Sound" by Stan Dosso, University of Victoria	--- Nelson / Denman ---	Session Plénière: "Studying the Sea with Sound" par Stan Dosso, Université de Victoria
9:30 AM – 7:00 PM	Equipment Exhibition	--- Conference Foyer ---	Exposition technique
9:30 AM – 10:00 AM	Coffee Break	--- Ballroom Foyer ---	Pause Café

	--- Comox ---	--- Denman ---	--- Nelson ---
	Biomedical Acoustics I Acoustique Bio-médicale I Session Chair / President: Tarek El-Bialy	First Nations Languages Acoustics II Acoustique des langues Premières Nations II Session Chair / Président: Jason Brown	Psychological Acoustics I Acoustique psychologique I Session Chair/Président: Kathy Pichora-Fuller
10:00 AM – 10:20 AM	Low intensity pulsed ultrasound stimulates osteogenic differentiation of human gingival fibroblasts – Mostafa et al.	Using acoustics to resolve a place controversy in Deg Xinag fricatives – Wright et al.	Effect of frequency in virtual rumble strips – Russo et al.
10:20 AM – 10:40 AM	Differential effect of therapeutic ultrasound on dentoalveolar structures during orthodontic force applications in-vitro (tension vs. compression forces – Lam et al.	Definitely indefinites? Using acoustics as a diagnostic in St'át'imcets – Caldecott & Davis	Listening with ear and hand: cross-modal integration in music perception – Maksimowski
10:40 AM – 11:00 AM	Modelling high frequency acoustic backscatter response from non-nucleated biological specimens – Falou et al.	Dentals are grave – Flynn & Fulop	A case of superior auditory spatial attention – Quelch et al.
11:00 AM – 11:20 AM	Finite element model of a SAW sensor for hydrogen detection – El-Gowini & Moussa	On the phonetics of schwa in Sliammon (M. Comox Salish): implications of the representations of Salish vowels – Blake & Shahin	The effect of informational masking and word position on sentence recall – Ezzatian et al.
11:20 AM – 11:40 AM	Cell expansion genes expression by therapeutic ultrasound: pros and cons – El Bialy & Aldosary	Tsilhqut'in ejectives: a descriptive phonetic study – Ham	The effect of types of acoustical distortion on lexical access – Pelletier et al.
11:40 AM – 12:00 PM	In-vivo ultrasound assisted tissue engineered articular condyle – El Bialy et al.	Laryngealized vowels in Quiavini Zapotec: from phonetic realization to phonological contrast – Chávez-Peón	The effect of the degree of acoustical distortion on lexical access by younger adults – Coletta et al.

12:00 PM – 1:00 PM	Buffet Lunch	--- Ballroom Foyer ---	Buffet Déjeuner
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Tuesday, October 7, 2008 (continued)

mardi, 7 octobre 2008 (suite)

	--- Comox ---	--- Denman ---	--- Nelson ---
	Biomedical Acoustics II Acoustique Bio-médicale II Session Chair / Président: Tarek El-Bialy	Environmental Noise II Bruit dans l'environnement II Session Chair / Président: Bill Gastmeier	Psychological Acoustics II Acoustique psychologique II Session Chair/Président: Kathy Pichora-Fuller
1:00 PM – 1:20 PM	Ultrasound transmission through time-varying phononic crystals – Wright & Cobbold	Typical hourly traffic distribution for noise modelling – VanDelden & Penton	Is there a 'ramp archetype' of intensity in electroacoustics music? – Dean & Bailes
	Speech Perception & Automatic Speech Recognition I Perception du langage & reconnaissance automatique I Session Chair / Président: Terrance Neary		
1:20 PM – 1:40 PM	The temporal window of audio-tactile integration in speech perception – Gick & Ikegami	Low noise pavement technologies in the Canadian context – a review of recent studies conducted in Alberta and Ontario – VanDelden, Penton & Haniff	Effects of emotional content and emotional voice on speech intelligibility in younger and older adults – Dupuis & Pichora-Fuller
1:40 PM – 2:00 PM	Spectral peaks as acoustic correlates to speech perception – Kiefte & Collins	Implementing noise prediction standards in calculation software – the various sources of uncertainty – Hartog van Banda & Stapelfeldt	Variability of the consonant modulation spectrum across individual talkers – Souza & Gallun
			Underwater Acoustics I Acoustique sous-marine I Session Chair / Président: Stan Dosso
2:00 PM – 2:20 PM	Acoustic modeling in automatic speech recognition – Deng		A semi-analytical approach to the study of the transient acoustic response of cylindrical shells – Leblond et al.
		Occupational Noise Bruit en milieu de travail Session Chair / Président: Hugh Davies	
2:20 PM – 2:40 PM	The temporal coordination of recited and spontaneous speech – Barbosa et al.	Noise exposure from communication headsets: the effects of environmental noise, device attenuation and preferred SNR under the device – Giguère & Dajani	Shock wave reflection and focusing phenomena in fluid-interacting shell systems – Iakovlev et al.
2:40 PM – 3:00 PM	The perceptual basis of velar epenthesis in Costa Rican Spanish – McLeod	Occupational noise exposure assessment using perceived and quantitative measures – Neitzel et al.	An efficient 3D PE propagation model with tessellation – Austin et al.
3:00 PM – 3:20 PM	Analysis and classification of a vowel database – Assmann et al.	Adjusting historical noise estimates by accounting for hearing protection use: a probabilistic approach and validation – Sbihi et al.	Array element localization of a bottom-mounted hydrophone array using ship noise – Ebbeson & Thierion
3:20 PM – 3:40 PM	Coffee Break	--- Ballroom Foyer ---	Pause Café

Tuesday, October 7, 2008 (continued)

mardi, 7 octobre 2008 (suite)

	Speech Perception & Automatic Speech Recognition II Perception du langage & reconnaissance automatique II Session Chair / Président: Michael Kiefte	Measurement & Analysis Mesures & analyses Session Chair / Président: Murray Hodgson	Underwater Acoustics II Acoustique sous-marine II Session Chair / Président: Michael Wilmut
3:40 PM – 4:00 PM	Pattern recognition in speech perception research – Nearey	The noise scales and their units – Dehra	Comparison of measured and modelled transmission loss in Emerald Basin – Maranda & Collison
4:00 PM – 4:20 PM	Mismatch between the production and perception of F0 in New Zealand English ethnolects – Szakay	Measuring the displacement of engines using acoustics – Peppin	Bayesian source tracking and ocean environmental inversion – Dosso
4:20 PM – 4:40 PM	Processing of Japanese pitch accent by native Japanese and English listeners – Tu et al.	A cepstral-domain algorithm for pitch estimation from noise-corrupted speech – Shahnaz	Source tracking in an unknown ocean environment – Wilmut & Dosso
4:40 PM – 5:00 PM	The McGurk effect affected by the Right Ear Advantage – Scott	FFT Tutor: A MatLab-based instructional tool for FFT-parameter exploration – De Rybel et al.	Geoacoustic inversion of noise from ships-of-opportunity with unknown position – Tollefsen & Dosso
5:00 PM	Annual General Meeting	--- Comox ---	Assemblée générale annuelle
6:00 PM	Reception with performance by Coral and Em	--- Ballroom Foyer ---	Réception avec la performance du groupe Coral and Em
7:00 PM	Banquet and Award Presentations	--- Nelson / Denman---	Banquet et présentation des prix
8:30 PM	Concert by August	--- Nelson / Denman ---	Concert du groupe August

Wednesday, October 8, 2008

mercredi, 8 octobre 2008

7:30 AM – 8:30 AM	Registration	--- Ballroom Foyer ---	Inscription
8:30 AM – 9:30 AM	Plenary Session: “From Micro to Macro: Composing Microsound and Soundscapes” by Barry Truax, Simon Fraser University	--- Nelson / Denman ---	Session Plénière: “From Micro to Macro: Composing Microsound and Soundscapes” par Barry Truax, Université Simon Fraser
9:30 AM – 10:00 AM	Coffee Break	--- Ballroom Foyer ---	Pause Café
	--- Comox ---	--- Denman ---	--- Nelson ---
	Auditory Scene Analysis Analyse de scène auditive Session Chair / Président: Claude Alain	Thermoacoustics / Thermo-acoustique Session Chair / Président: Luc Mongeau	Architectural Acoustics Acoustique architecturale Session Chairs / Présidents: John Bradley & Murray Hodgson
10:00 AM – 10:20 AM	Auditory scene analysis as a system – Bregman	Performance characterization of a small-capacity thermoacoustic cooler for air-conditioning applications – Paek et al.	Fire resistance and noise control in multi-family buildings – Quirt & Nightingale
10:20 AM – 10:40 AM	The role of attention in the development of auditory scene analysis – Sussman	A perfectly matched layer technique for Lattice Boltzmann Method – Najafi-Yazdi & Mongeau	Reverberation rooms and spatial uniformity – Ramakrishnan & Grewal
10:40 AM – 11:00 AM	Psychophysical and neuroelectric evidence of ontext effects in auditory stream segregation – Snyder	Numerical model of a thermoacoustic engine – Hireche et al.	Ray-tracing prediction of sound-pressure fields in empty and fitted rooms – Hodgson et al.

Wednesday, October 8, 2008 (cont'd)

mercredi, 8 octobre 2008 (suite)

		Musical Acoustics / Acoustique musicale Session Chair / Président: Chris Waltham	
11:00 AM – 11:20 AM	The perception of auditory continuity with interrupted masking sounds – Ciocca & Chang	Structural segmentation of popular music with partially supervised clustering – Graves & Pedrycz	Speech privacy classes for rating the speech security of meeting rooms – Bradley & Gover
11:20 AM – 11:40 AM	Organising by object: How auditory memory can be structured within complex scenes – Dyson	Vibrational characteristics of harp soundboards – Waltham et al.	The effects of room acoustics on speech privacy of meeting rooms – Bradley et al.
11:40 AM – 12:00 PM	Aging and the cocktail party problem: where is the problem? – Alain	Measurement and calculation of the Santur parameters – Heydarian	Prediction of Speech Transmission Index in eating establishments – Nahid & Hodgson
12:00 PM – 1:00 PM	Buffet Lunch	--- Ballroom Foyer ---	Buffet déjeuner
12:45 PM	Student Presentation Awards	--- Ballroom ---	Prix pour les présentations d'étudiants
1:00 PM – 6:30 PM	CSA Meeting	--- Horizon / Evergreen ---	Réunion CSA