

Conference Program - CAA 2007 (Montreal)

October 9, 2007 (Tuesday)

7:00 PM - 9:00 PM	Board Meeting (Room EV 2-204)
6:00 PM - 8:00 PM	Registration and Welcome Reception (Room EV 2-260)

October 10, 2007 (Wednesday)

8:30 AM - 4:00 PM	Conference Registration (Atrium Library Building)
8:30 AM - 9:00 AM	Conference Opening (DB Clarke Theatre, Hall Building)
9:00 AM - 10:00 AM	Plenary Session (DB Clarke Theatre): Jet Noise Prediction: Past, Present and Future (Philip J. Morris)

10:00 AM - 10:40 AM	Coffee Break (Atrium Library Building)
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	Aeroacoustics I	Music Cognition/Musical Acoustics-I	Hearing Sciences-1
	Room EV 2-260A	Room EV 2-260B	Room EV 2-184
	Session Chair: Sid-Ali Meslioui	Session Chair: Annabel Cohen	Session Chair: Jérémie Voix
10:40 AM - 11:00 AM	Jet Noise Prediction Model for Gas Turbine Engine with Internal Forced Mixers - Meslioui	Psycho-Acoustic Experiments on the Sensory Consonance of Musical Two-Tones - Frosch	Finite Element Analysis of an Earmuff-Earcanal System - Khani et al.
11:00 AM - 11:20 AM	Direct Measurement of a Green's Function for Jet Noise Prediction - Richarz	(Invited Talk: 40 minutes)	Adaptive Environmental Classification System for Hearing Aids - Lamarque et al.
11:20 AM - 11:40 AM	Aeroacoustic Noise in the Gas Wiping Process - Arthurs and Ziada	Perception of Meter Similarity in Flamenco Music - Absar et al.	Learning User Volume Control Preferences in Hearing Aids - Cole et al.
11:40 AM - 12:00 PM	Exterior Aeroacoustic Array Measurement on the Bombardier Global Express - Malkoun and Lapointe	Psychology-Based Rhythmic Transformations - Gomez et al.	Spatial Vibration Patterns of the Gerbil Eardrum - Ellaham et al.
12:00 PM - 12:20 PM	Application of FEM and SEA in Predicting Vibro-Acoustic Behavior of a Flat Ribbed Panel Structure - Madjesi	Emotion recognition and Autistic Spectrum Disorders (ASD) : Can music help? - Quintin et al.	Is it the Pits? Noise Exposure of Opera Musicians - MacDonald et al.

12:20 PM - 1:40 PM	Lunch Break
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	Active Noise and Echo Control	Speech Sciences-I	Building Acoustics-I
	Room EV 2-260A	Room EV 2-260B	Room EV 2-184
	Session Chair: Heping Ding	Session Chair: Tyseer Aboulnasr	Session Chair: John Bradely
1:40 PM - 2:00 PM	A Robust Voice Separation Method - Chu et al.	Effect of Within- and Between-talker Variability on Word Identification in Noise by Younger and Older Adults - Goy et al.	The acoustics of the Hellenistic Theatre of Epidaurus: The Important Role of the Seat Rows - Declercq and Dekeyser
2:00 PM - 2:20 PM	The Challenge for Telecom Industrial in the Acoustic and Network Echo Cancellation - Jin (Invited Talk)	Articulatory State Estimation from Incomplete Speech Measurements - Rodrigues and Kroeker	Using Speech Intelligibility Scores to Rate Sound Insulation - Park et al.
2:20 PM - 2:40 PM	Efficient Blind Speech Signal Separation Combining Independent Component Analysis And Beamforming Pan and Aboulnasr	Acoustic Diagnosis of Vocal Tremor - Li et al.	Acoustic Ecology and the Cinematic Representation of Architectural Space: Strains of R. Murray Schafer's Acoustic Design in the Films of Jacques Tati - Jordan
2:40 PM - 3:00 PM	Speech Enhancement Employing Loudness Subtraction and Over-Subtraction - Zhang and Aboulnasr	A Time-Domain Pitch Extraction Scheme for Noisy Speech Signals - Shahnaz et al.	Tonal Noise in Buildings: Current Practice in Measurement and Assessment - Mouratidis and Capone
3:00 PM - 3:20 PM	Acoustic Echo Cancellation and Noise Removal in the Automobile - Hetherington (Invited Talk)	Débruitage par ondelettes de la parole en milieu industriel - Le Cocq et al.	Noise Control Provisions in Canada's Building Codes - Nightingale and Quirt

3:20 PM - 4:00 PM **Coffee Break (Atrium Library Building)**

	Instrumentation, Signal Processing and Techniques-I	Computational Acoustics-I	Environmental Acoustics-I
	Room EV 2-260A	Room EV 2-260B	Room EV 2-184
	Session Chair: Lixue Wu	Session Chair: Luis Rodrigues	Session Chair: Werner Richarz
4:00 PM - 4:20 PM	Measurement of the Performance of Sound Level Meters Using IEC 61672-3:2006 - Hanes	Effect of Mean Flow on the Acoustic Trapped Modes of a Cavity-Duct System - Awany and Ziada	A Review of Noise Impacts from Offshore Oil-Gas Production Activities on Marine Biota - Sultana and Chen
4:20 PM - 4:40 PM	Improved Repeatability for Calibration of Shock Accelerometers - Wu	A Numerical Study on Effect of Vibrator Shape on the Development of Nonlinear Standing Waves in 2-D Acoustical Resonator - Nabavi et al.	Bayesian Matched-field Geoacoustic Inversion - Dosso
4:40 PM - 5:00 PM	A New Method of Acoustical Remote Evaluation of Defective Structures and Material Characterization - Mfoumou et al.	In-Plane Free Vibration of Circular Disks using Characteristic Orthogonal Polynomials in Rayleigh-Ritz Method - Bashmal et al.	Assessment of Aircraft Noise Impact on Residential Area - Chen et al.
5:00 PM - 5:20 PM	Ray Trace Modelling of Multipath in Ultrasound Power Measurement System - Wu	Design Optimization of the Thermoacoustic Air Conditioning System of an Automotive - Babaei and Siddiqui	Suivi du bruit audible généré par une nouvelle ligne haute-tension à 735 kV - Duchassin et al.
5:20 PM - 5:40 PM	Optical Audio Reconstruction for Stereo Phonograph Records using White Light Interferometry - Li et al. (withdrawn)	Modeling transient wave propagation with retarded boundary potentials and waveguide meshes - de Leon and Scavone (withdrawn)	Reduction of Noise Levels in Hydraulic System Driven by Swash Plate Pumps by Improving Design of Port Plate - Chikhalsouk and Bhat

8:00 PM - 9:30 PM **Musical Evening (DB Clarke Theatre, Hall Building)**

October 11, 2007 (Thursday)

8:30 AM - 4:00 PM **Conference Registration (Atrium Library Building)**

9:00 AM - 10:00 AM **Plenary Session (Room EV 2-260): Pitch Proximity, Voice Leading, and Acoustic Consonance (Dmitri Tymoczko)**

10:00 AM - 10:40 AM **Coffee Break (Atrium Library Building)**

	Aeroacoustics II	Music Cognition/Musical Acoustics-II	Hearing Sciences-II	Cabin Noise
	Room EV 2-260A	Room EV 2-260B	Room EV 2-184	Room EV 3-309
	Session Chair: Ramani Ramakrishnan	Session Chair: William Martens	Session Chair: Christian Giguere	Session Chair: Luc Mongeau
10:40 AM - 11:00 AM	H.S. Ribner and Aero Acoustics at UTIAS - Richarz	Vikrutha Panchama Scales in Carnatic Music Containing both Fourth and Diminished Fifth - Bhat	Auditory Spatial Attention in Younger and Older Adults: A Comparison of Laboratory and Self-Report Measures - Singh and Pichora-Fuller	Modeling Aircraft Cabin Noise with Statistical Energy Analysis (SEA) - Wareing
11:00 AM - 11:20 AM	(Invited Talk: 40 Minutes)	Preliminary Results on String Instrument Recognition - Smalridge et al.	Acoustic Cues and Recognition Accuracy in Cross-Cultural Vocal Expression - Trimmer et al.	Prediction of Noise Generated by a Cabin Outflow Valve using the STAR-CD Code - Waller
11:20 AM - 11:40 AM	Acoustic Performance Considerations for a 'Once Through Steam Generator/OTSG - Gambino and Ashtiani	Wind Instrument Acoustic Research at the Computational Acoustic Modeling Laboratory, McGill University - Lefebvre and Scavone	Nonlinear Registration of Histological Images for 3-D Middle-Ear Modeling - Nambiar et al.	Integration of Turbulent Boundary Layer (TBL) by using Plate-Backed Cavity to Study the Various TBL Models - Levitte and Atalla
11:40 AM - 12:00 PM	Valve Noise Control - Meslioui	Playful Tools, Serious Questions - Mountain	Variabilité de l'atténuation des protecteurs auditifs mesurée par la méthode Field-MIRE en fonction de la direction du son incident et des bruits du p - Gaudreau et al.	
12:00 PM - 12:20 PM	Experimental and Numerical Investigation of Surface Pressure Fluctuations behind Notched and Uniform Spoilers - Mongeau and Mejia	Subharmonic Effects in Some Musical Instruments - Hanssen et al. (withdrawn)	Validation of an NVH Simulator Compared to Traditional Laboratory Experiment - Novak and Ule	

12:20 PM - 1:40 PM **Lunch Break**

	Noise Control	Speech Sciences-II	Building Acoustics-II	Micro and Nano Acoustics
	Room EV 2-260A	Room EV 2-260B	Room EV 2-184	Room EV 3-309
	Session Chair: Noureddine Atalla	Session Chair: Fariborz Haghighat	Session Chair: Brad Gover	Session Chair: Ion Stiharu
1:40 PM - 2:00 PM	SEA Based Model for the Prediction of the Acoustic Performance of Machine Enclosures - Nelisse et al.	An Algorithm for Formant Frequency Estimation from Noise-corrupted Speech Signals - Fattah et al.	Statistical Basis for Rating Speech Privacy of Closed Rooms - Gover and Bradley	Damping and Quality Optimization in MEMS Microresonators - Rinaldi et al.
2:00 PM - 2:20 PM	Modeling the Vibroacoustic Response of Multi-Materials Complex Structures under Mechanical Excitation - Rhazi and Atalla	Simulation of the Three Dimensional Flow in the Human Larynx - Céré et al.	Guide for Flanking Sound Transmission in Wood Framed Construction: Issues for Impact Noise - Quirt et al.	MEMS Based Acoustic Pressure Measurements - Rinaldi et al.
2:20 PM - 2:40 PM	A New Nonlinear Impedance Model for Liners - Touchais et al.	Blink Reflex and Auditory-Speech Perception in Prelingually Cochlear Implanted Children - Emamdjomeh et al.	A Unified Theory for Stresses and Oscillations - Dehra	Static Modeling of Multiple-Electrostatically Deformable Microbridges - Li et al.
2:40 PM - 3:00 PM	Impedance Tube Characterization of Elastic Properties of Expanding Foams - Chevillotte and Panneton		Acoustic Renovation of Vancouver's Queen Elizabeth Theatre: 2006 to 2009 - O'Keefe	
3:00 PM - 3:20 PM			Using Annoyance and Loudness Ratings of Transmitted Speech and Music to Evaluate Measures of Sound Insulation - Park et al. (withdrawn)	

3:20 PM - 4:00 PM **Coffee Break (Atrium Library Building)**

	Acoustic Materials	Music Cognition/Musical Acoustics-III	Instrumentation, Signal Processing and Techniques-II	Environmental Acoustics-II
	Room EV 2-260A	Room EV 2-260B	Room EV 2-184	Room EV 3-309
	Session Chair: Raymond Panneton	Session Chair: Godfried Toussaint	Session Chair: Peter Hanes	Session Chair: Stan Dosso
4:00 PM - 4:20 PM	An Index of Heterogeneity of Sound Absorbing Porous Materials - Salissou and Panneton	Memory for Musical Intervals: Cognitive Differences for Consonance and Dissonance - Rogers and Levitin	Measurement of Perceived Annoyance Due to Low Frequency Content in Broad Spectrum Noises - Qian et al.	Characterization of Sound Emitted by Wind Machines Used for Frost Control - Gambino et al.
4:20 PM - 4:40 PM	A new 3D finite element for sandwich structures with viscoelastic materials - Amichi and Atalla	Effect of Age on Sensitivity to Tonality - Minghella et al.	Monte Carlo Simulation for Calculation of Uncertainty in Reciprocity Calibration of Microphones - Hanes	Wind Turbine Noise and Meteorological Influences - Ramakrishnan and Sylvestre-Williams
4:40 PM - 5:00 PM	Inverse Acoustical Characterization of Porous Media - Hamoudi and Panneton	Eliciting Individual Language Describing Differences in Auditory Imagery Associated with Four Multichannel Microphone Technique - Martens et al.	A Theoretical Study on Using PVDF in the Acoustic Pump for Biomedical Applications - Nabavi et al.	Performance Parameters for Selecting Equipment to Characterize Sound and Weather Conditions in Remote Natural Environments - Busch
5:00 PM - 5:20 PM	Modeling of General Laminate Composite Structures with Viscoelastic Layers - Ghinet and Atalla	Developing Consensus Language for Describing Differences in Auditory Imagery Associated with Four Multichannel Microphone Techniques - Kim and Martens	Frequency Analysis of the Acoustic Pressure of Nonlinear Standing Waves - Nabavi et al.	Impulse Noise Exposure During Personal Weapon Testing on an Outdoor Shooting Range - Nakashima and Hu
5:20 PM - 5:40 PM	Symmetry of Viscous Permeability Tensor in Porous Media - Perrot et al.	Towards a Spatial Sound Description Interchange Format (SpatDIF) - Peters et al.	Effect of Demographics on Subjective Jury Testing of an Automotive Application - Ule and Novak	The Sound that Vortices within Vortices Make - Vatistas

6:00 PM - 6:45 PM **CAA Annual General Meeting (Room EV 2-260)**

7:00 PM - 9:30 PM **Banquet (Ritz-Carlton Hotel)**

October 12, 2007 (Friday)

9:00 AM - 10:00 AM **Plenary Session (Room EV 2-260): Innovative Materials for Noise Control in Buildings (Sgard)**

10:00 AM - 10:40 AM **Coffee Break (Atrium Library Building)**

	Computational Acoustics-II	Hearing Sciences-III	Building Acoustics-III
	Room EV 2-260A	Room EV 2-260B	Room EV 2-184
	Session Chair: George Vatisas	Session Chair: Frank Russo	Session Chair: David Quirt
10:40 AM - 11:00 AM	Radiation by a Submerged Cylindrical Shell in Response to an External Non-Stationary Acoustic Pulse - Iakovlev (withdrawn)	A Field Study of Preferred Listening Levels for Music Played on Personal Stereo Players in the Urban Environment - Russo et al.	Measuring and Predicting Speech Privacy in Open-Plan Spaces - Bradley
11:00 AM - 11:20 AM	Design Optimization for Parallel Plate Heat Exchangers in a Thermoacoustic Device - Babaei and Siddiqui	Universal Accessibility and Usability for Hearing: Considerations for Design - Fok et al.	Acoustic Design Of The Esplanade Arts And Heritage Centre, Medicine Hat, Alberta - O'Keefe
11:20 AM - 11:40 AM	Effect of Boundary Conditioning on String Inharmonicity - Chen and Bhat	Changing State and the Irrelevant Sound Effect - Surprenant et al.	Comparison of subjective and objective ratings of intelligibility of speech recordings - Gover and Bradley
11:40 AM - 12:00 PM	Sound Propagation in Nonstationary, Inhomogeneous and Dispersive Media - Hanssen (withdrawn)	Development of Temporary Threshold Shift (TTS) Detector for use in iPods and other Portable Audio Devices - Laroche et al.	Effects of Structural Flanking on Apparent STC of Steel Stud Wall - Wakefield and Williamson
12:00 PM - 12:20 PM	Echo Control in VoIP - El-Hennawy (Invited Talk)		Acoustics, Noise & Vibration Issues for Technology Research & Manufacturing - Busch